SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 21-Feb-2013

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: New York District, NAN-2009-01299-JD1

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: NY - New York
County/parish/borough: Westchester
City: North Salem
Lat: 41.3517
Long: -73.6522

Universal Transverse Mercator

Folder UTM List

UTM list determined by folder location
- NAD83 / UTM zone 18N

Waters UTM List

UTM list determined by waters location
- NAD83 / UTM zone 18N

Name of nearest waterbody: West Branch Croton River
Name of nearest Traditional Navigable Water (TNW): Croton River
Name of watershed or Hydrologic Unit Code (HUC): 02030101

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION:

☐ Office Determination Date:
☐ Field Determination Date(s): 24-Nov-2009

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

1. Waters of the U.S.
   a. Indicate presence of waters of U.S. in review area:

<table>
<thead>
<tr>
<th>Water Name</th>
<th>Water Type(s) Present</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland AB</td>
<td>Wetlands directly abutting RPWs that flow directly or indirectly into TNWs</td>
</tr>
</tbody>
</table>

   b. Identify (estimate) size of waters of the U.S. in the review area:

   Area: (m²)
   Linear: (m)

   c. Limits (boundaries) of jurisdiction:

   based on:
   OHWM Elevation: (if known)

   2. Non-regulated waters/wetlands:

   Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. TNW
   Not Applicable.

2. Wetland Adjacent to TNW
   Not Applicable.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:
Watershed size:
Drainage area:
Average annual rainfall: inches
Average annual snowfall: inches

(ii) Physical Characteristics
(a) Relationship with TNW:
☐ Tributary flows directly into TNW.
☐ Tributary flows through [ ] tributaries before entering TNW.

Number of tributaries

Project waters are river miles from TNW.
Project waters are river miles from RPW.
Project Waters are aerial (straight) miles from TNW.
Project waters are aerial (straight) miles from RPW.
☐ Project waters cross or serve as state boundaries.

Explain:
Identify flow route to TNW:

(b) General Tributary Characteristics:

Tributary Stream Order, if known:
Not Applicable.

Tributary is:
Not Applicable.

Tributary properties with respect to top of bank (estimate):
Not Applicable.

Primary tributary substrate composition:
Not Applicable.

Tributary [conditions, stability, presence, geometry, gradient]:
Not Applicable.

(c) Flow:

Surface Flow is:
Not Applicable.

Subsurface Flow:
Not Applicable.

Tributary has:
Not Applicable.

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

High Tide Line indicated by:
Not Applicable.

Mean High Water Mark indicated by:
Not Applicable.

(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Not Applicable.

(iv) Biological Characteristics. Channel supports:
Not Applicable.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

(a) General Wetland Characteristics:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Size (Acres)</th>
<th>Wetland Type</th>
<th>Wetland Quality</th>
<th>Cross or Serve as State Boundaries. Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland AB</td>
<td>4.26</td>
<td>Forested</td>
<td>Good</td>
<td>No</td>
</tr>
</tbody>
</table>

(b) General Flow Relationship with Non-TNW:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland AB</td>
<td>Perennial flow.</td>
<td></td>
</tr>
</tbody>
</table>

Surface flow is:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland AB</td>
<td>Disc</td>
<td></td>
</tr>
</tbody>
</table>

https://orm.usace.army.mil/orm2/?p=106:34:567041765440881::NO::
Subsurface flow:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Subsurface Flow</th>
<th>Explain Findings</th>
<th>Dye (or other) Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland AB</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

(c) Wetland Adjacency Determination with Non-TNW:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Directly Abutting</th>
<th>Discrete Wetland Hydrologic Connection</th>
<th>Ecological Connection</th>
<th>Separated by Berm/Barrier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland AB</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

(d) Proximity (Relationship) to TNW:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>River Miles From TNW</th>
<th>Aerial Miles From TNW</th>
<th>Flow Direction</th>
<th>Within Floodplain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland AB</td>
<td>1 (or less)</td>
<td>1 (or less)</td>
<td>Wetland to navigable waters</td>
<td>500-year or greater</td>
</tr>
</tbody>
</table>

(ii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Explain</th>
<th>Identify specific pollutants, if known</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland AB</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

(iii) Biological Characteristics. Wetland supports:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Riparian Buffer Characteristics</th>
<th>Vegetation</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland AB</td>
<td>X</td>
<td>X</td>
<td>Forested/80%</td>
</tr>
</tbody>
</table>

Habitat for:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Habitat</th>
<th>Federally Listed Species</th>
<th>Explain Findings</th>
<th>Spawn Area</th>
<th>Explain Findings</th>
<th>Other Environmentally Sensitive Species</th>
<th>Explain Findings</th>
<th>Aquatic/Wildlife Diversity</th>
<th>Explain Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland AB</td>
<td>X</td>
<td>X</td>
<td>Potential habitat for Indiana bat</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis: Not Applicable.

Summarize overall biological, chemical and physical functions being performed: Not Applicable.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

1. TNWs and Adjacent Wetlands: Not Applicable.

2. RPWs that flow directly or indirectly into TNWs: Not Applicable.

Provide estimates for jurisdictional waters in the review area: Not Applicable.

3. Non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area: Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland AB</td>
<td>PERENNIAL</td>
<td>Water within this wetland flows within the channel of a perennial unnamed tributary to the Croton River. Aerial photography, the Croton Falls, NY USGS quadrangle map, field observations and annual rainfall of 48 inches, indicate that the stream flows all year.</td>
</tr>
</tbody>
</table>

https://orm.usace.army.mil/orm2/?p=106:34:567041765440881::NO::

2/25/2013
Provide acreage estimates for jurisdictional wetlands in the review area:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Type</th>
<th>Size (Linear) (m)</th>
<th>Size (Area) (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland AB</td>
<td>Wetlands directly abutting RPWs that flow directly or indirectly into TNWs</td>
<td>-</td>
<td>17231.0204024064</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>0</strong></td>
<td><strong>17231.0204024064</strong></td>
</tr>
</tbody>
</table>

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:
Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:
Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:
Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:
Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:
Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction:
Not Applicable.

**SECTION IV: DATA SOURCES.**

**A. SUPPORTING DATA. Data reviewed for JD**

<table>
<thead>
<tr>
<th>Data Reviewed</th>
<th>Source Label</th>
<th>Source Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>--Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>--U.S. Geological Survey map(s)</td>
<td>Croton Falls, NY</td>
<td>-</td>
</tr>
<tr>
<td>--USDA Natural Resources Conservation Service Soil Survey</td>
<td>Westchester County, NY</td>
<td>-</td>
</tr>
<tr>
<td>--State/Local wetland inventory map(s):</td>
<td>Croton Falls, NY</td>
<td>-</td>
</tr>
<tr>
<td>--Photographs</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>----Aerial</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>----Other</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**B. ADDITIONAL COMMENTS TO SUPPORT JD:**
Not Applicable.
SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 21-Feb-2013


C. PROJECT LOCATION AND BACKGROUND INFORMATION:
   State: NY - New York
   County/parish/borough: Westchester
   City: North Salem
   Lat: 41.3517
   Long: -73.6522

   Universal Transverse Mercator
   ○ UTM list determined by folder location
   ○ NAD83 / UTM zone 18N

   Waters UTM List
   ○ UTM list determined by waters location
   ○ NAD83 / UTM zone 18N

   Name of nearest waterbody: West Branch Croton River
   Name of nearest Traditional Navigable Water (TNW): Croton River
   Name of watershed or Hydrologic Unit Code (HUC): 02030101

   Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
   Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.,) are associated with the action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION:
   ☒ Office Determination Date:
   ☐ Field Determination Date(s): 24-Nov-2009

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION
   There "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.
   ☐ Waters subject to the ebb and flow of the tide.
   ☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

   Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.
   There "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

1. Waters of the U.S.
   a. Indicate presence of waters of U.S. in review area: 1

<table>
<thead>
<tr>
<th>Water Name</th>
<th>Water Type(s) Present</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland CDE</td>
<td>Wetlands directly abutting RPWs that flow directly or indirectly into TNWs</td>
</tr>
</tbody>
</table>

   b. Identify (estimate) size of waters of the U.S. in the review area:
      Area: (m²)
      Linear: (m)

   c. Limits (boundaries) of jurisdiction:
      based on:
      OHWM Elevation: (if known)

2. Non-regulated waters/wetlands: 3
   Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. TNW
   Not Applicable.

2. Wetland Adjacent to TNW
   Not Applicable.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

1. Characteristics of non-TNWs that flow directly or indirectly into TNW
   (i) General Area Conditions:
Watershed size: 
Drainage area: 30 acres
Average annual rainfall: 48 inches

(ii) Physical Characteristics
(a) Relationship with TNW:
- Tributary flows directly into TNW.
- Tributary flows through [ ] tributaries before entering TNW.
- Number of tributaries
- Project waters are 1 (or less) river miles from TNW.
- Project waters are 1 (or less) river miles from RPW.
- Project Waters are 1 (or less) aerial (straight) miles from TNW.
- Project waters are 1 (or less) aerial (straight) miles from RPW.
- Project waters cross or serve as state boundaries.

Explain:
Identify flow route to TNW:
Wetland CDE flows directly into a seasonal unnamed tributary to the Croton River, which flows into the perennial unnamed tributary which flows through Wetland AB, then off site. The water then flows into another perennial unnamed tributary then directly into the Croton River.

Tributary Stream Order, if known:
Not Applicable.

(b) General Tributary Characteristics:
Tributary is:
Not Applicable.

Tributary properties with respect to top of bank (estimate):
Not Applicable.

Primary tributary substrate composition:
Not Applicable.

Tributary (conditions, stability, presence, geometry, gradient):
Not Applicable.

(c) Flow:
Surface Flow is:
Not Applicable.

Subsurface Flow:
Not Applicable.

Tributary has:
Not Applicable.

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:
High Tide Line indicated by:
Not Applicable.

Mean High Water Mark indicated by:
Not Applicable.

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Not Applicable.

(iv) Biological Characteristics. Channel supports:
Not Applicable.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:
(a) General Wetland Characteristics:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Size (Acres)</th>
<th>Wetland Type</th>
<th>Wetland Quality</th>
<th>Cross or Serve as State Boundaries. Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland CDE</td>
<td>9</td>
<td>Forested</td>
<td>Good</td>
<td>No</td>
</tr>
</tbody>
</table>

(b) General Flow Relationship with Non-TNW:

Flow is:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland CDE</td>
<td>Intermittent flow. -</td>
</tr>
</tbody>
</table>

Surface flow is:
### Subsurface Flow:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow Explain</th>
<th>Dye (or other) Test Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland CDE</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### (c) Wetland Adjacency Determination with Non-TNW:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Directly Abutting</th>
<th>Discrete Wetland Hydrologic Connection</th>
<th>Ecological Connection</th>
<th>Separated by Berm/Barrier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland CDE</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### (d) Proximity (Relationship) to TNW:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>River Miles From TNW</th>
<th>Aerial Miles From TNW</th>
<th>Flow Direction</th>
<th>Within Floodplain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland CDE</td>
<td>1 (or less)</td>
<td>1 (or less)</td>
<td>Wetland to/from navigable waters</td>
<td>500-year or greater</td>
</tr>
</tbody>
</table>

#### (ii) Chemical Characteristics:

- Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Explain Identify specific pollutants, if known</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland CDE</td>
<td>-</td>
</tr>
</tbody>
</table>

#### (iii) Biological Characteristics. Wetland supports:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Riparian Buffer</th>
<th>Characteristics</th>
<th>Vegetation</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland CDE</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>Forested/90%</td>
</tr>
</tbody>
</table>

### Habitat for:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Habitat</th>
<th>Federally Listed Species</th>
<th>Explain Findings</th>
<th>Spawn Area</th>
<th>Explain Findings</th>
<th>Other Environmentally Sensitive Species</th>
<th>Explain Findings</th>
<th>Aquatic/Wildlife Diversity</th>
<th>Explain Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland CDE</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:
Not Applicable.

Summarize overall biological, chemical and physical functions being performed:
Not Applicable.

### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Findings for: Wetland CDE

Wetland CDE and the seasonal stream that it directly abuts, can retain, convert, and cycle the pollutants from nearby roads and homes that would otherwise directly enter the TNW. Furthermore, during large storm events, the wetlands can serve as a flood storage areas.

### D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

#### 1. TNWs and Adjacent Wetlands:
Not Applicable.

#### 2. RPWs that flow directly or indirectly into TNWs:
Not Applicable.

Provide estimates for jurisdictional waters in the review area:
Not Applicable.

#### 3. Non-RPWs that flow directly or indirectly into TNWs.
Not Applicable.

Provide estimates for jurisdictional waters in the review area:
Not Applicable.

#### 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland CDE</td>
<td>-</td>
</tr>
</tbody>
</table>

---

https://orm.usace.army.mil/orm2/?p=106:34:567041765440881::NO::APP_FORM_ID:32455
2/25/2013
Wetland CDE SEASONAL  Water within this wetland flows within the channel of a seasonal unnamed tributary to the Croton River. Aerial photography, the Croton Falls, NY USGS quadrangle map, field observations clearly showing the on-site seasonal stream, and annual rainfall of 48 inches indicate that the on-site stream flows at least 3 consecutive months.

Provide acreage estimates for jurisdictional wetlands in the review area:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Type</th>
<th>Size (Linear) (m)</th>
<th>Size (Area) (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland CDE</td>
<td>Wetlands directly abutting RPWs that flow directly or indirectly into TNWs</td>
<td>-</td>
<td>3631.083765184</td>
</tr>
<tr>
<td>Total:</td>
<td></td>
<td></td>
<td>3631.083765184</td>
</tr>
</tbody>
</table>

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:
   Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:
   Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:
   Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:
   Not Applicable.

7. Impoundments of jurisdictional waters:
   Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:
   Not Applicable.

Identify water body and summarize rationale supporting determination:
   Not Applicable.

Provide estimates for jurisdictional waters in the review area:
   Not Applicable.

F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS
   If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:
   Not Applicable.
   Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:
   Not Applicable.
   Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based on the "Migratory Bird Rule" (MBR):
   Not Applicable.
   Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):
   Not Applicable.
   Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:
   Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.
   Not Applicable.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD

<table>
<thead>
<tr>
<th>Data Reviewed</th>
<th>Source Label</th>
<th>Source Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant</td>
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<td>-</td>
</tr>
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<td>-</td>
</tr>
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<td>Westchester County, NY</td>
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</tr>
<tr>
<td>State/Local wetland inventory map(s)</td>
<td>Croton Falls, NY</td>
<td>-</td>
</tr>
<tr>
<td>Photographs</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Aerial</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Other</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

B. ADDITIONAL COMMENTS TO SUPPORT JD:
   Not Applicable.
Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.
SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 21-Feb-2013


C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: NY - New York
County/parish/borough: Westchester
City: North Salem
Lat: 41.3517
Long: -73.6522

Universal Transverse Mercator

Folder UTM List
UTM list determined by folder location
- NAD83 / UTM zone 18N

Waters UTM List
UTM list determined by waters location
- NAD83 / UTM zone 18N

Name of nearest waterbody: West Branch Croton River
Name of nearest Traditional Navigable Water (TNW): Croton River
Name of watershed or Hydrologic Unit Code (HUC): 02030101

☐ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with the action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION:

☐ Office Determination Date:
☐ Field Determination Date(s): 24-Nov-2009

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

1. Waters of the U.S.
   a. Indicate presence of waters of U.S. in review area:

<table>
<thead>
<tr>
<th>Water Name</th>
<th>Water Type(s) Present</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland F</td>
<td>Wetlands directly abutting RPWs that flow directly or indirectly into TNWs</td>
</tr>
</tbody>
</table>

b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²)
Linear: (m)

c. Limits (boundaries) of jurisdiction:

   based on:
   OHWM Elevation: (if known)

2. Non-regulated waters/wetlands:

   Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. TNW
   Not Applicable.

2. Wetland Adjacent to TNW
   Not Applicable.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

   (i) General Area Conditions:
Watershed size: acres
Drainage area: 35 acres
Average annual rainfall: 48 inches
Average annual snowfall: inches

(ii) Physical Characteristics
(a) Relationship with TNW:

- Tributary flows directly into TNW.
- Tributary flows through [ ] tributaries before entering TNW.
- Number of tributaries
- Project waters are [1 (or less) river miles from TNW.
- Project waters are [1 (or less) river miles from RPW.
- Project Waters are [1 (or less) aerial (straight) miles from TNW.
- Project waters are [1 (or less) aerial (straight) miles from RPW.
- Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:
Wetland F flows within the channel of a seasonal unnamed tributary to the East Branch Croton River, then off site. The water then flows into the East Branch Croton River then directly into the Croton River.

(b) General Tributary Characteristics:

- Tributary is:
  Not Applicable.
- Tributary properties with respect to top of bank (estimate):
  Not Applicable.
- Primary tributary substrate composition:
  Not Applicable.
- Tributary (conditions, stability, presence, geometry, gradient):
  Not Applicable.

(c) Flow:

- Surface Flow is:
  Not Applicable.
- Subsurface Flow:
  Not Applicable.
- Tributary has:
  Not Applicable.

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

- High Tide Line indicated by:
  Not Applicable.
- Mean High Water Mark indicated by:
  Not Applicable.

(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

(iv) Biological Characteristics. Channel supports:

Not Applicable.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

(a) General Wetland Characteristics:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Size (Acres)</th>
<th>Wetland Type</th>
<th>Wetland Quality</th>
<th>Cross or Serve as State Boundaries. Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland F</td>
<td>1.59</td>
<td>Forested</td>
<td>Good</td>
<td>No</td>
</tr>
</tbody>
</table>

(b) General Flow Relationship with Non-TNW:

Flow is:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland F</td>
<td>Intermittent flow.</td>
<td>-</td>
</tr>
</tbody>
</table>

Surface flow is:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Characteristics</th>
</tr>
</thead>
</table>
### Subsurface Flow:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Subsurface Flow</th>
<th>Explain Findings</th>
<th>Dye (or other) Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland F</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### (c) Wetland Adjacency Determination with Non-TNW:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Directly Abutting</th>
<th>Discrete Wetland Hydrologic Connection</th>
<th>Ecological Connection</th>
<th>Separated by Berm/Barrier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland F</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### (d) Proximity (Relationship) to TNW:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>River Miles From TNW</th>
<th>Aerial Miles From TNW</th>
<th>Flow Direction</th>
<th>Within Floodplain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland F</td>
<td>1 (or less)</td>
<td>1 (or less)</td>
<td>Wetland to navigable waters</td>
<td>500-year or greater</td>
</tr>
</tbody>
</table>

### (ii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Explain</th>
<th>Identify specific pollutants, if known</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland F</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### (iii) Biological Characteristics. Wetland supports:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Riparian Buffer Characteristics</th>
<th>Vegetation</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland F</td>
<td>X</td>
<td>X</td>
<td>Forested 90%</td>
</tr>
</tbody>
</table>

### Habitat for:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Habitat</th>
<th>Federally Listed Species</th>
<th>Explain Findings</th>
<th>Spawn Area Explain Findings</th>
<th>Other Environmentally Sensitive Species Explain Findings</th>
<th>Aquatic/Wildlife Diversity Explain Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland F</td>
<td>X</td>
<td>X</td>
<td>Potential Indiana bat habitat</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Findings for: Wetland F

Wetland F and the seasonal stream that it directly abuts, can retain, convert, and cycle the pollutants from nearby roads and homes that would otherwise directly enter the TNW. Furthermore, during large storm events, the wetlands can serve as a flood storage area.

### D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

1. TNWs and Adjacent Wetlands:

Not Applicable.

2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

3. Non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland F</td>
<td>SEASONAL</td>
<td>Water within this wetland flows within the channel of a seasonal unnamed tributary to the East Branch Croton River. Aerial photography, the Croton Falls, NY USGS quadrangle map, field observations clearly showing the on-site seasonal stream, and annual rainfall of 48 inches indicate that the on-site stream flows at least 3</td>
</tr>
</tbody>
</table>
Provide acreage estimates for jurisdictional wetlands in the review area:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Type</th>
<th>Size (Linear) (m)</th>
<th>Size (Area) (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland F</td>
<td>Wetlands directly abutting RPWs that flow directly or indirectly into TNWs</td>
<td>6453.9583952832</td>
<td>6453.9583952832</td>
</tr>
</tbody>
</table>

Total: 0, 6453.9583952832

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:
Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:
Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:
Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:
Not Applicable.

7. Impoundments of jurisdictional waters:
Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH DAMAGES:
Not Applicable.

Identify water body and summarize rationale supporting determination:
Not Applicable.

Provide estimates for jurisdictional waters in the review area:
Not Applicable.

F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:
- Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR):
- Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

- Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:
Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction:
Not Applicable.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD

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<tr>
<td>Photographs</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Aerial</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Other</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

B. ADDITIONAL COMMENTS TO SUPPORT JD:
Not Applicable.

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1. Boxes checked below shall be supported by completing the appropriate sections in Section III below.
2. For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
3. Supporting documentation is presented in Section III.F.
4. Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
5. Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
6. A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody’s flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
7. Ibid.

8 See Footnote #3.
9 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
10 Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.