



Clean Water Act Section 404: Site Visit/Case Development

For inspections authorized pursuant to Clean Water Act sections 308 and 404 (33 U.S.C. §§ 1318 and 1344)

This report includes only factual information gained by documentation, onsite observations, and/or onsite interviews.

Inspector Name(s)	Stephanie Andreescu Austin Jepsky (in-training)	Time In	10:38 AM	Start Date	May 23, 2023
		Time Out	1:05 PM	End Date	May 23, 2023

Inspector's Organization: U.S. EPA Region 2

Organization Requesting Inspection (if different):

Inspection Type: Evaluation Inspection Status: Original

Site Name: Battaglia Properties

Site Address*: 2 Dikeman Drive (Parcel ID: 122-1-2.1) & 6 Dikeman Drive (Parcle ID: 122-1-2.2)

City*: Goshen County*: Orange State*: NY Zip Code*: 10924

Mailing Address*: U.S. FOIA (b)(6)

City*: U.S. FOIA (b)(6) County*: U.S. FOIA (b)(6) State*: U.S. FOIA (b)(6) Zip Code*: U.S. FOIA (b)(6)

Latitude*: 41.3911 Longitude*: -74.3398

Estimated Size of Site (acres): 6 Is there a home on the site? Yes No

Inspector Signature: *Stephanie Andreescu* Digitally signed by STEPHANIE ANDREESCU Date: 2023.07.26 15:05:04 -04'00' Date: 7/26/23

Supervisor Signature: MARCO FINOCCHIARO Digitally signed by MARCO FINOCCHIARO Date: 2023.07.26 15:40:22 -04'00' Date: 7/26/23



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Site Name	Battaglia Properties	Start Date	May 23, 2023
		End Date	May 23, 2023
Inspection Purpose	Follow-up site visit		
Opening Conference			
<input checked="" type="checkbox"/> Presentation of Inspector Credentials			
Name and Title (Use N/A if owner/operator not available to join the inspection)			
Credentials were presented to Mr. Giuseppe (Joe) Battaglia, the owner/president of Orange Builders, LLC			
<input checked="" type="checkbox"/> Opening Conference			
Name of person authorizing access if applicable			
Mr. Battaglia exchanged emails with EPA to schedule the inspection.			
Notes from Opening Conference			
The opening conference was brief and included introductions of individuals present. Mr. Battaglia expressed frustration with EPA's inspection report from 1/17/23 because he felt like it was opinion and not fact.			
<input type="checkbox"/> Access Issues if Any			
Describe			
N/A			
Inspection Observations and Sample Collection			
Site Owner/Site Operator/Responsible Party (Name, title and contact information)			
Orange Builders, LLC; Mr. Giuseppe Battaglia - owner/president, U.S. FOIA (b)(6), U.S. FOIA (b)(6)			
Additional Persons Present at Inspection			
Lauren Fischer and Andie D'Angelo - EPA Office of Regional Counsel; Brian Orzel - U.S. Army Corps of Engineers, NY District			
General Site Characteristics (layout of property, etc.)			
2 and 6 Dikeman Drive (the "Dikeman Drive Properties") are 3-acre adjoining rectangular parcels bordered by New York State Route 17A to the east, Dikeman Drive to the north, Dikeman Firehouse property/10 Dikeman Drive (122-1-2.3) to the west and another private parcel to the south (13-1-10.12). The Dikeman Drive Properties are undeveloped and dominated by grasses and forbs. The properties slope towards Dikeman Drive.			
Purpose and Need for Discharge of Dredged and/or Fill Material			
Fill material was discharged as a result of ditch excavation on the Dikeman Drive Properties.			
Site Overview (Past inspections, site description, permits, etc.)			
EPA's Wetland Protection Section previously inspected 6 Dikeman Drive on January 17, 2023. On May 30, 2000, the U.S. Army Corps of Engineers (Corps) issued a letter regarding the discharge of fill material into waters of the United States for the construction of a new Village of Goshen fire station located at what is now 10 Dikeman Drive. The letter authorized the filling of a maximum of 1.33 acres of wetlands under a Nationwide Permit 26. Mitigation for the wetland impact was			



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Site Name	Battaglia Properties	Start Date	May 23, 2023
		End Date	May 23, 2023
<p>1.84 acres of wetland creation and enhancement on the Dikeman Drive Properties.</p> <p>The Corps is in possession of a wetland delineation for the Dikeman Drive Properties that was conducted prior to construction of the mitigation wetland as well as a map of the proposed mitigation.</p> <p>The Village of Goshen issued a Stop Work Order for the Dikeman Drive Properties on June 10, 2021 for "Damage to Federal & State Protected Wetlands" among other violations.</p>			
Scope of Inspection (Areas inspected or not inspected)			
EPA inspected areas around excavated ditches on the Dikeman Drive Properties			



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Site Name	Battaglia Properties	Start Date	May 23, 2023
		End Date	May 23, 2023
Environmental Conditions (e.g., wind, rain, smoke, dust, temperature, snow)			
mid-60's to low-70's; sunny			
Field Work Conducted			
<p>The purpose of the inspection was to document whether there has been a discharge of dredged/fill material into wetlands without proper authorization from the Corps.</p> <p>Data recorded during the inspection included GPS points; soils, vegetation, and hydrology data from three sampling locations; photographs; and handwritten notes.</p> <p>When EPA arrived at the Dikeman Drive properties, Mr. Battaglia was in the process of mowing the properties with a riding lawn mower.</p> <p>EPA began the inspection observing the excavated ditch at the 6 and 10 Dikeman Drive properties. EPA observed sidecasted material in areas surrounding the ditch and noted indicators of hydric soil in the piles of material. EPA took a soil sample, SS1, near the ditch and sidecasted material (see attached map). At this location, EPA observed indicators of wetland hydrology, hydrophytic (wetland) vegetation, and hydric soils, and concluded that the sampling location was in a wetland. Dominant vegetation included reed canary grass and common reed.</p> <p>EPA took a second soil sample, SS2, on the hillside (see attached map). Vegetation had been cut and was documented by EPA on the wetland data forms as "significantly disturbed." According to Mr. Battaglia, vegetation at that location had been mowed the weekend prior. While water was seeping at eight inches below the surface, soils at SS2 did not exhibit field indicators of hydric soils. EPA determined that this location was not in a wetland.</p> <p>EPA observed a second ditch that had been excavated on the 2 Dikeman Drive property and that sidecasted material lay nearby. A third soil sample, SS3, was taken on the 2 Dikeman Drive property near sidecasted material (see attached map). EPA observed surface water, a high water table, hydrophytic (wetland) vegetation, and hydric soils, and concluded that the sampling location was in a wetland. Dominant vegetation included cattail and reed canary grass.</p>			
Closing Conference			
Documents Received and/or Requested During the Inspection			
N/A			
Compliance Assistance Provided (If any)			
N/A			
Observations Relayed to Site Owner/Operator			
EPA explained the process of delineating a wetland (3-parameter approach) to Mr. Battaglia.			
Actions Taken by Owner/Operator During the Inspection (If any)			
N/A			
Potential Issues of Concern Including Regulatory Citations			
EPA observed indicators of ditching and sidecasting within a wetland at the Dikeman Drive Properties.			



Clean Water Act Section 404: Site Visit/Case Development

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Site Name	Battaglia Properties	Start Date	May 23, 2023
		End Date	May 23, 2023
EPA continues to have concerns that wetlands at 6 Dikeman Drive are currently undermapped, which may lead to potential violations of Section 404 of the Clean Water Act if the property is developed according to plan and without the necessary authorizations.			
Attachments*			
<input checked="" type="checkbox"/> Maps and Sketches			
<input checked="" type="checkbox"/> Photographs (including location) and Photo Log			
<input checked="" type="checkbox"/> Other (SSIP, Wetlands Delineation Forms, etc.)			
Attachments: Map of GPS points; Photographs and Photolog; and Wetland Delineation Forms for Soil Sampling Locations 1-3			
Additional Notes			



NYS ITS GIS Program Office

- 5/23/2023 GPS Point
- 5/23/2023 GPS Line
- Orange County Stream
- Approximate Parcel Boundary

Battaglia Properties
 5/23/2023 CWA Section 404 Inspection
 2 & 6 Dikeman Drive, Orange County, NY
 41.3904, -74.3400



EPA CWA 404 Inspection Photolog
Battaglia Properties
2 & 6 Dikeman Drive
Goshen, NY

May 23, 2023



Date: 5/23/2023
Time: 10:42 AM
Photographer: S. Andreescu
Photo ID: 1 – P5230082

Description:

Dikeman Drive properties actively being mowed by property owner prior to inspection



Date: 5/23/2023
Time: 10:50 AM
Photographer: S. Andreescu
Photo ID: 2 – P5230083

Description:
Sampling location (SS1);
recently mowed

GPS location



Date: 5/23/2023
Time: 11:02 AM
Photographer: S. Andreescu
Photo ID: 3 – P5230084

Description:
Soil sample 1 (SS1) soil profile

GPS Location



Date: 5/23/2023
Time: 11:09 AM
Photographer: S. Andreescu
Photo ID: 4 – P5230085

Description:
Closeup of redoximorphic
features in soil sample (SS1)

GPS Location



Date: 5/23/2023
Time: 11:20 AM
Photographer: S. Andreescu
Photo ID: 5 – P5230086

Description:

Example of sidecasted material
in area dominated by
hydrophytic vegetation



Date: 5/23/2023
Time: 11:36 AM
Photographer: S. Andreescu
Photo ID: 6 – P5230087

Description:
Soil profile 2 (SS2) soil profile

GPS Location



Date: 5/23/2023
Time: 11:41 AM
Photographer: S. Andreescu
Photo ID: 7 – P5230088

Description:
Soil sample 2 (SS2) surrounding
area

GPS Location



Date: 5/23/2023
Time: 11:41 AM
Photographer: S. Andreescu
Photo ID: 8 – P5230089

Description:

Soil sample 2 (SS2) surrounding area; recently mowed



Date: 5/23/2023
Time: 11:48 AM
Photographer: S. Andreescu
Photo ID: 9 – P5230090

Description:

Water seeping from side of soil pit



Date: 5/23/2023
Time: 12:17 PM
Photographer: S. Andreescu
Photo ID: 10 – P5230091

Description:
Soil sample 3 (SS3) soil profile

GPS Location



Date: 5/23/2023
Time: 12:17 PM
Photographer: S. Andreescu
Photo ID: 11 – P5230092

Description:

Soil pit 3 (SS3) with high water table

GPS Location



Date: 5/23/2023
Time: 12:25 PM
Photographer: S. Andreescu
Photo ID: 12 – P5230093

Description:

Closeup of redoximorphic features in soil sample (SS3); oxidized root channels



Date: 5/23/2023
Time: 12:32 PM
Photographer: S. Andreescu
Photo ID: 13 – P5230094

Description:

Sidcasted material near ditch;
2 Dikeman Drive



Date: 5/23/2023
Time: 12:45 PM
Photographer: S. Andreescu
Photo ID: 14 – P5230095

Description:

Crayfish head found in wetland;
2 Dikeman Drive

Project/Site: 2 & 6 Dikeman Drive Properties; Joe Battaglia City/County: Goshen / Orange Sampling Date: 5/23/2023
 Applicant/Owner: Orange Builders, LLC; Joe Battaglia State: NY Sampling Point: 1
 Investigator(s): S.Andreescu, A. Jepsky Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope %: _____
 Subregion (LRR or MLRA): LRR R Lat: 41.390955 Long: -74.339672 Datum: _____
 Soil Map Unit Name: Madalin Silt Loam (Ma) NWI classification: N/A

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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) _____ ___ Surface Water (A1) ___ Water-Stained Leaves (B9) ___ High Water Table (A2) ___ Aquatic Fauna (B13) ___ Saturation (A3) ___ Marl Deposits (B15) ___ Water Marks (B1) ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) <u>X</u> Oxidized Rhizospheres on Living Roots (C3) ___ Drift Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7) ___ Other (Explain in Remarks) ___ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) ___ Surface Soil Cracks (B6) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 1

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	=Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	=Total Cover		
Herb Stratum (Plot size: <u>5</u>)			
1. <u>Phragmites australis</u>	55	Yes	FACW
2. <u>Impatiens capensis</u>	5	No	FACW
3. <u>Phalaris arundinacea</u>	20	Yes	FACW
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
	80 =Total Cover		
Woody Vine Stratum (Plot size: _____)			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>80</u>	x 2 = <u>160</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>80</u> (A)	<u>160</u> (B)
Prevalence Index = B/A = <u>2.00</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)
 Vegetation recently cut. Vegetation sampling limited to remaining vegetation in reduced plot.

Project/Site: 2 & 6 Dikeman Drive Properties; Joe Battaglia City/County: Goshen / Orange Sampling Date: 5/23/2023
 Applicant/Owner: Orange Builders, LLC; Joe Battaglia State: NY Sampling Point: 2
 Investigator(s): S.Andreescu, A. Jepsky Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope %: _____
 Subregion (LRR or MLRA): LRR R Lat: 41.39065 Long: -74.340236 Datum: _____
 Soil Map Unit Name: Erie Gravelly Silt Loam, 3-8 Percent Slopes (ErB) NWI classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) _____ _____ Surface Water (A1) _____ Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) _____ Aquatic Fauna (B13) <u>X</u> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes <u>X</u> No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>8</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Water was actively seeping into the soil pit at 8 inches below the surface. Water table was at 14.5 inches and rising.

VEGETATION – Use scientific names of plants.

Sampling Point: 2

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ =Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ =Total Cover				
<u>Herb Stratum</u> (Plot size: _____)				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation _____ 2 - Dominance Test is >50% _____ 3 - Prevalence Index is $\leq 3.0^1$ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
_____ =Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ =Total Cover				Hydrophytic Vegetation Present? Yes _____ No _____

Remarks: (Include photo numbers here or on a separate sheet.)
 Vegetation recently mowed (prior weekend). Remaining vegetation included an unknown sedge, Solidago canadensis, and Barbarea vulgaris.

Project/Site: 2 & 6 Dikeman Drive Properties; Joe Battaglia City/County: Goshen / Orange Sampling Date: 5/23/2023
 Applicant/Owner: Orange Builders, LLC; Joe Battaglia State: NY Sampling Point: 3
 Investigator(s): S.Andreescu, A. Jepsky Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope %: _____
 Subregion (LRR or MLRA): LRR R Lat: 41.390508 Long: -74.338754 Datum: _____
 Soil Map Unit Name: Madalin Silt Loam (Ma) NWI classification: N/A

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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) _____ <input checked="" type="checkbox"/> Surface Water (A1) _____ Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) _____ Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>2</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>2.5</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>2.5</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Surface water present in ditch nearby

VEGETATION – Use scientific names of plants.

Sampling Point: 3

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ =Total Cover				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">Total % Cover of:</th> <th style="width:50%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>37</u></td> <td>x 1 = <u>37</u></td> </tr> <tr> <td>FACW species <u>27</u></td> <td>x 2 = <u>54</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>64</u> (A)</td> <td><u>91</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.42</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>37</u>	x 1 = <u>37</u>	FACW species <u>27</u>	x 2 = <u>54</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>64</u> (A)	<u>91</u> (B)	Prevalence Index = B/A = <u>1.42</u>	
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Prevalence Index = B/A = <u>1.42</u>																				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ =Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
<u>Herb Stratum</u> (Plot size: <u>5</u>)					Hydrophytic Vegetation Present? Yes <u>X</u> No _____															
1. <u><i>Typha latifolia</i></u>	<u>35</u>	<u>Yes</u>	<u>OBL</u>																	
2. <u><i>Phalaris arundinacea</i></u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>																	
3. <u><i>Impatiens capensis</i></u>	<u>2</u>	<u>No</u>	<u>FACW</u>																	
4. <u><i>Lythrum salicaria</i></u>	<u>2</u>	<u>No</u>	<u>OBL</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
_____ =Total Cover				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
<u>Woody Vine Stratum</u> (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ =Total Cover				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																

Remarks: (Include photo numbers here or on a separate sheet.)

