

IC7009

ROADSIDE SURVEY

7119110

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRLWF City/County: Clinton Sampling Date: 7119110  
 Applicant/Owner: MRLCC State: NY Sampling Point: DIA  
 Investigator(s): DELAHUNTY Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): RELATIVELY FLAT Local relief (concave, convex, none): None  
 Slope (%): 0 Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: PSS1PEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_\_  
 Are Vegetation N, Soil N, or Hydrology N 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 <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes _____ No _____
Hydric Soil Present? Yes _____ No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	

Remarks: (Explain alternative procedures here or in a separate report.)  
maps DEC 8 NWI wetland  
PSS1PEM ASSOCIATED W/ PERENNIAL STREAM IC 7009-ST.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	_____ Surface Soil Cracks (B6)
_____ Surface Water (A1)	_____ Water-Stained Leaves (B9)
_____ High Water Table (A2)	_____ Drainage Patterns (B10)
_____ Saturation (A3)	_____ Aquatic Fauna (B13)
_____ Water Marks (B1)	_____ Moss Trim Lines (B16)
_____ Sediment Deposits (B2)	_____ Marl Deposits (B15)
_____ Drift Deposits (B3)	_____ Dry-Season Water Table (C2)
_____ Algal Mat or Crust (B4)	_____ Hydrogen Sulfide Odor (C1)
_____ Iron Deposits (B5)	_____ Oxidized Rhizospheres on Living Roots (C3)
_____ Inundation Visible on Aerial Imagery (B7)	_____ Presence of Reduced Iron (C4)
_____ Sparsely Vegetated Concave Surface (B8)	_____ Recent Iron Reduction in Tilled Soils (C6)
	_____ Thin Muck Surface (C7)
	<input checked="" type="checkbox"/> Other (Explain in Remarks)
	_____ Saturation Visible on Aerial Imagery (C9)
	_____ Stunted or Stressed Plants (D1)
	_____ Geomorphic Position (D2)
	_____ Shallow Aquitard (D3)
	_____ Microtopographic Relief (D4)
	_____ FAC-Neutral Test (D5)

Field Observations:  
 Surface Water Present? Yes  No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes  No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:  
Fringe wetlands ASSOCIATED W/ PERENNIAL STREAM  
Photo 40  
" 39  
" 38  
=> WEST

IC 7009

Roanoke Spring

7/19/10

could not assess cover due to distance from wetland

VEGETATION - Use scientific names of plants.

Sampling Point: \_\_\_\_\_

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>QUERCUS AMERICANA</i>			FACW
2. <i>ACER RUBRUM</i>			FAC
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

**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)

Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>ALNUS ROGOSA</i>			FACW
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

**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 = \_\_\_\_\_

Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>ONOCLEA SENSIBILIS</i>			FACW
2. <i>CAREX SP.</i>			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

**Hydrophytic Vegetation Indicators:**

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0<sup>1</sup>

Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators 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 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.

Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			

**Hydrophytic Vegetation Present?** Yes  No

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

- Fowl meadow grass; JUB BY WEEDS; JUB WEED ON EAST SIDE OF PASTURE

- COVER NOT DETERMINED - NO ACERS.

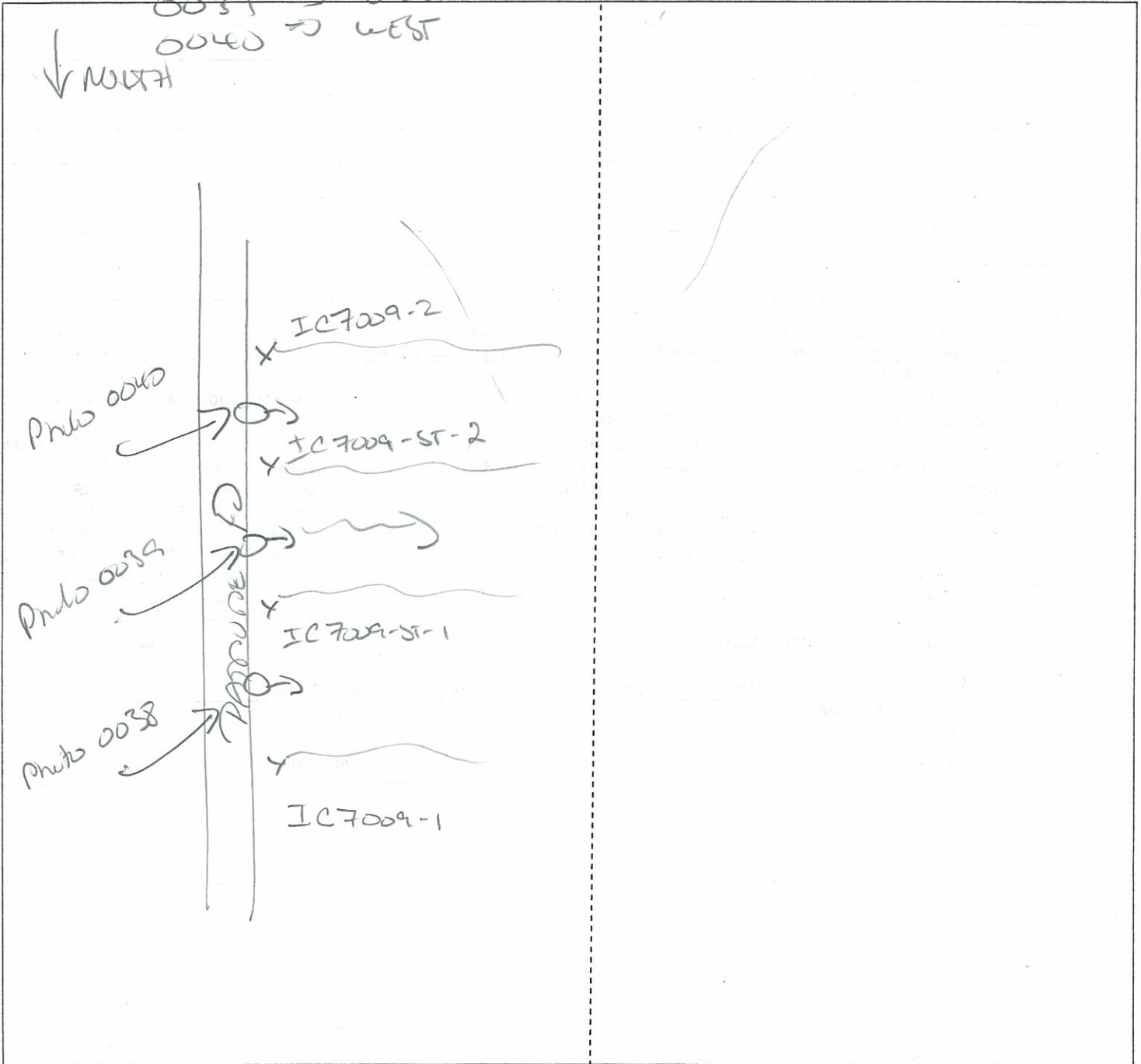
IC7009

# ROADSIDE SURVEY

7/19/10

## SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 0038 ⇒ WEST	LOCATION:	



LEGEND	
	Photo Location / Direction
	Sample Station
	Centerline
	Flag
	Wetland
	Upland
	Perennial Stream
	Intermittent Stream

IC7009

Roanoke Spring

7/19/10

**SOIL**

Sampling Point: \_\_\_\_\_

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.    <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- \_\_\_ Histosol (A1)
- \_\_\_ Histic Epipedon (A2)
- \_\_\_ Black Histic (A3)
- \_\_\_ Hydrogen Sulfide (A4)
- \_\_\_ Stratified Layers (A5)
- \_\_\_ Depleted Below Dark Surface (A11)
- \_\_\_ Thick Dark Surface (A12)
- \_\_\_ Sandy Mucky Mineral (S1)
- \_\_\_ Sandy Gleyed Matrix (S4)
- \_\_\_ Sandy Redox (S5)
- \_\_\_ Stripped Matrix (S6)
- \_\_\_ Dark Surface (S7) (LRR R, MLRA 149B)

- \_\_\_ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- \_\_\_ Thin Dark Surface (S9) (LRR R, MLRA 149B)
- \_\_\_ Loamy Mucky Mineral (F1) (LRR K, L)
- \_\_\_ Loamy Gleyed Matrix (F2)
- \_\_\_ Depleted Matrix (F3)
- \_\_\_ Redox Dark Surface (F6)
- \_\_\_ Depleted Dark Surface (F7)
- \_\_\_ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- \_\_\_ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- \_\_\_ Coast Prairie Redox (A16) (LRR K, L, R)
- \_\_\_ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- \_\_\_ Dark Surface (S7) (LRR K, L)
- \_\_\_ Polyvalue Below Surface (S8) (LRR K, L)
- \_\_\_ Thin Dark Surface (S9) (LRR K, L)
- \_\_\_ Iron-Manganese Masses (F12) (LRR K, L, R)
- \_\_\_ Piedmont Floodplain Soils (F19) (MLRA 149B)
- \_\_\_ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- \_\_\_ Red Parent Material (TF2)
- \_\_\_ Very Shallow Dark Surface (TF12)
- \_\_\_ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No \_\_\_\_\_

**Remarks:**

Soils not collected - no Access.

IC 7010

ROADSIDE SURVEY

7/19/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/19/10
Applicant/Owner: MRZ, LLC State: NY Sampling Point: N/A
Investigator(s): DELAHUNTY Section, Township, Range:
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none):
Slope (%): Lat: Long: Datum:
Soil Map Unit Name: NWI classification: PSS/PEM

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

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

Table with 2 columns: Hydrophytic Vegetation Present?, Hydric Soil Present?, Wetland Hydrology Present? and Is the Sampled Area within a Wetland?.

Remarks: (Explain alternative procedures here or in a separate report.)
DEC MAPPED wetland
PSS/PEM - continue to WEST (EAST via culvert)

HYDROLOGY

Table with 2 columns: Wetland Hydrology Indicators (Primary and Secondary) and Field Observations.

Field Observations: Surface Water Present? Yes [X] No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches):
Wetland Hydrology Present? Yes [X] No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Photo 41 => WEST
Culvert to EAST under PATROCK
SW to EAST of PATROCK

VEGETATION - Use scientific names of plants.

Sampling Point: N/A

Cover Est. in % from Distance (Roads)

Tree Stratum (Plot size: <u>Ø</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			
5.			
6.			
7.			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>SALIX SERICEA</u>	<u>30</u>	<u>Y</u>	<u>OBL</u>
2. <u>ULMUS AMERICANA</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>
3.			
4.			
5.			
6.			
7.			

20% → 8 = 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 =

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>PHALARIS ARUNDINACEA</u>	<u>5</u>	<u>N</u>	<u>FACW</u>
2. <u>IMPATIENS CADENSIS</u>	<u>5</u>	<u>N</u>	<u>FACW</u>
3. <u>ONOCLEA SENSIBILIS</u>	<u>5</u>	<u>N</u>	<u>FACW</u>
4. <u>ULMUS AMERICANA</u>	<u>10</u>	<u>N</u>	<u>FACW</u>
5. <u>CAREX CRINITA</u>	<u>70</u>	<u>Y</u>	<u>OBL</u>
6. <u>GLYCERIA SP</u>	<u>10</u>	<u>N</u>	<u>OBL</u>
7.			
8.			
9.			
10.			
11.			
12.			

20% → 21 = Total Cover

**Hydrophytic Vegetation Indicators:**

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0<sup>1</sup>

Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Woody Vine Stratum (Plot size: <u>Ø</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			

= 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 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  No

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

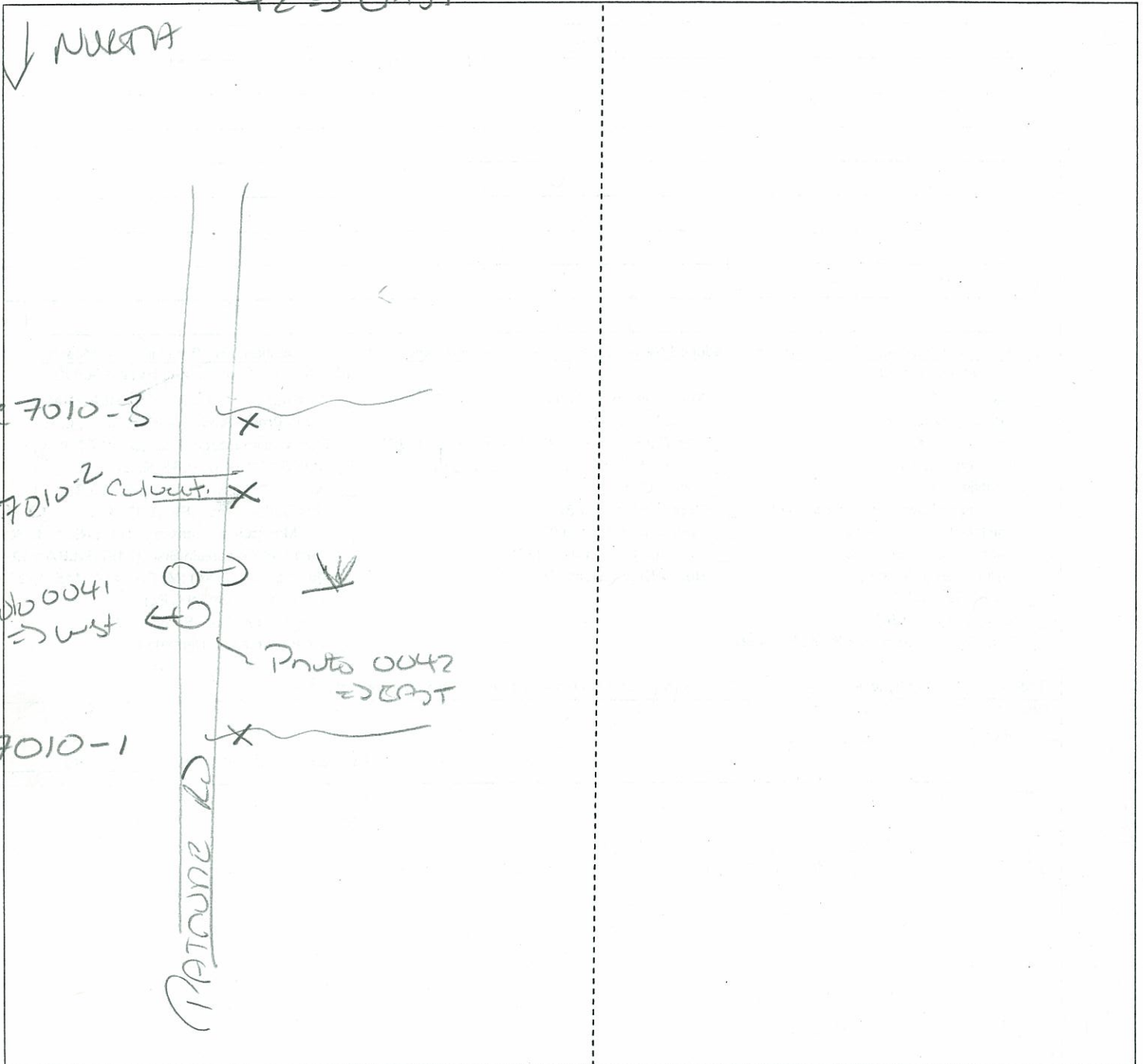
IC 7010

Beaussine Sory

7/19/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 41 ⇒ WEST 42 ⇒ EAST	LOCATION:	



LEGEND

- Photo Location / Direction
- Sample Station
- Centerline
- Flag

- Wetland
- Upland
- Perennial Stream
- Intermittent Stream

SOIL

Sampling Point: \_\_\_\_\_

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No \_\_\_\_\_

Remarks:

NOT COLLECTED - NO ACCESS.



IC 7011

Roanoke Survey

7/19/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MARUF City/County: Clinton Sampling Date: 7/19/10
Applicant/Owner: MARUC State: NY Sampling Point: D1A
Investigator(s): DELAHUNTY Section, Township, Range:
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none):
Slope (%): Lat: Long: Datum:
Soil Map Unit Name: NWI classification: PFO/PSI/PEU

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

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

Table with 2 columns: Hydrophytic Vegetation Present?, Hydric Soil Present?, Wetland Hydrology Present? and Is the Sampled Area within a Wetland? Yes/No. Includes a field for optional Wetland Site ID.

Remarks: (Explain alternative procedures here or in a separate report.)
Potentially associated w/ DEC wetland not within mapped wetlands. Marginal = Hydro not prominent. PFO/PSI/PEU

HYDROLOGY

Table with 2 columns: Wetland Hydrology Indicators (Primary and Secondary) and Secondary Indicators (minimum of two required). Lists various indicators like Surface Water, High Water Table, etc.

Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Wetland Hydrology Present? Yes/No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: WETLANDS ALSO OCCUR ON WEST SIDE OF PARADE - not culvert. Photo 43 -> WEST

IC 7011

Roadside Spring

7/19/10

VEGETATION - Use scientific names of plants.

Sampling Point: \_\_\_\_\_

Cover not determined due to distance from wetland

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. BETULA PANDULIFOLIA			FAC
2. PICEA SP.			
3. ACER RUBRUM			FAC
4. THUSA OCCIDENTALIS			FACW
5. _____			
6. _____			
7. _____			

\_\_\_\_\_ = Total Cover

Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. ACER RUBRUM			FAC
2. SALIX BERBIANA			FACW
3. SALIX SERICEA			OBL
4. _____			
5. _____			
6. _____			
7. _____			

\_\_\_\_\_ = Total Cover

Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. SOLIDAGO RUGOSA			FAC
2. SCIRPUS ATROVIRENS			OBL
3. ONOCLEA SENSIBILLIS			FACW
4. CAREX CRINITA			OBL
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

\_\_\_\_\_ = Total Cover

Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			

\_\_\_\_\_ = Total Cover

**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)

**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 = \_\_\_\_\_

- Hydrophytic Vegetation Indicators:**
- \_\_\_ Rapid Test for Hydrophytic Vegetation
  - \_\_\_ Dominance Test is >50%
  - \_\_\_ Prevalence Index is  $\leq 3.0^1$
  - \_\_\_ Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators 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 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 \_\_\_\_\_ No \_\_\_\_\_

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

Cover not determined - no Access

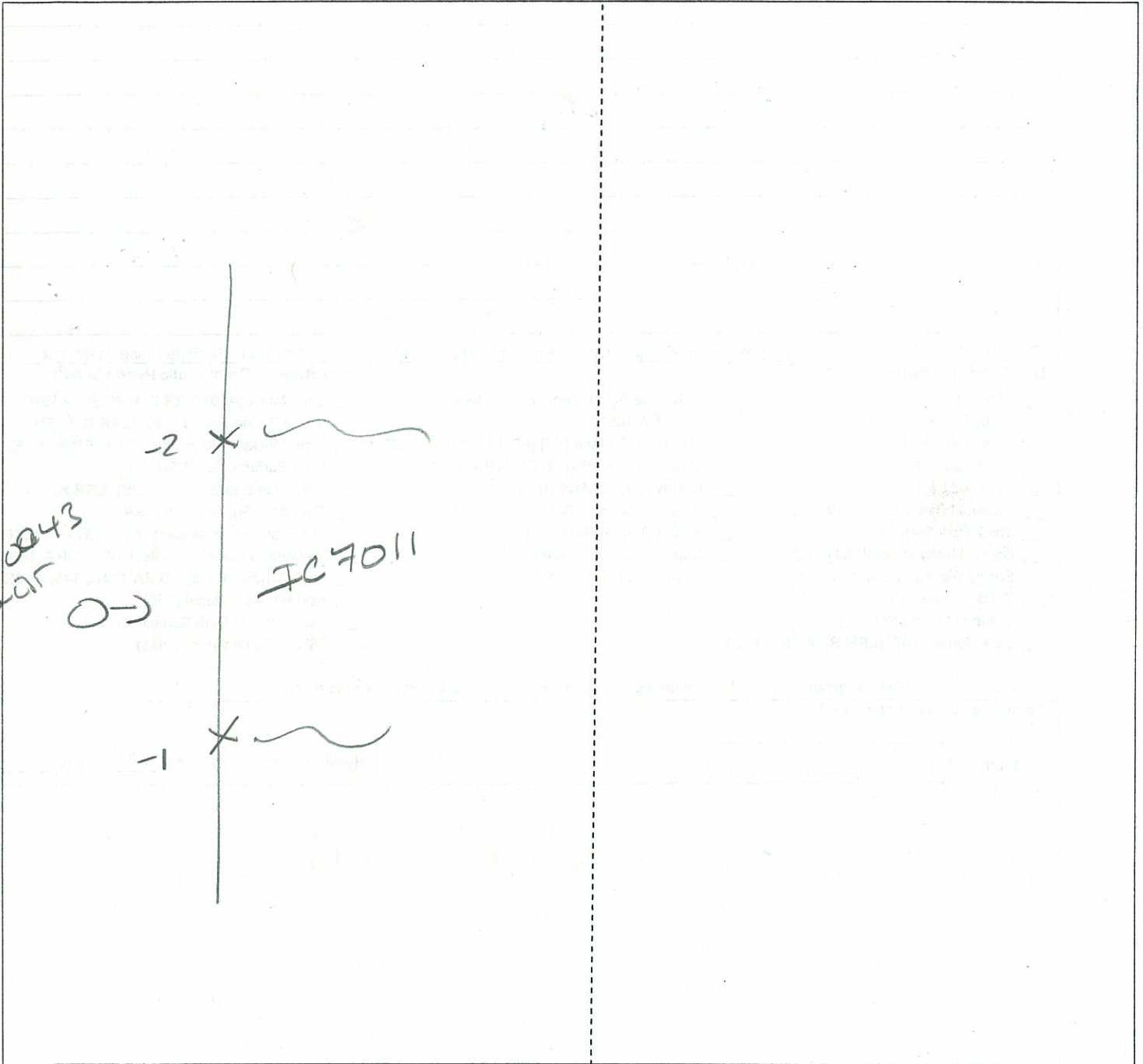
IC7011

ROADLINE SURVEY

7/19/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 0043 → WEST	LOCATION:	



LEGEND	
	Photo Location / Direction
	Sample Station
	Centerline
	Flag
	Wetland
	Upland
	Perennial Stream
	Intermittent Stream

IC 7011

Roanoke Survey

7/19/10

SOIL

Sampling Point: \_\_\_\_\_

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

- |   |  |  |
|---|--|--|
| <b>Hydric Soil Indicators:</b>                                |  | <b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>          |
| <input type="checkbox"/> Histosol (A1)                        | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)       |
| <input type="checkbox"/> Histic Epipedon (A2)                 | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)       | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)     |
| <input type="checkbox"/> Black Histic (A3)                    | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)             | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                        | <input type="checkbox"/> Dark Surface (S7) (LRR K, L)                |
| <input type="checkbox"/> Stratified Layers (A5)               | <input type="checkbox"/> Depleted Matrix (F3)                            | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)     |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)    | <input type="checkbox"/> Redox Dark Surface (F6)                         | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)           |
| <input type="checkbox"/> Thick Dark Surface (A12)             | <input type="checkbox"/> Depleted Dark Surface (F7)                      | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)   |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)             | <input type="checkbox"/> Redox Depressions (F8)                          | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)             |  | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   |
| <input type="checkbox"/> Sandy Redox (S5)                     |  | <input type="checkbox"/> Red Parent Material (TF2)                   |
| <input type="checkbox"/> Stripped Matrix (S6)                 |  | <input type="checkbox"/> Very Shallow Dark Surface (TF12)            |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) |  | <input type="checkbox"/> Other (Explain in Remarks)                  |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No \_\_\_\_\_

Remarks:

NOT COLLECTED - NO ACCESS

IC7012

ROADSIDE SURV

7/19/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/19/10
Applicant/Owner: MR, LLC State: NY Sampling Point:
Investigator(s): DELAHUNTY Section, Township, Range:
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none):
Slope (%): Lat: Long: Datum:
Soil Map Unit Name: NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N 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 X No
Hydric Soil Present? Yes No
Wetland Hydrology Present? Yes X No
Is the Sampled Area within a Wetland? Yes No
If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)
PEM Fringe wetlands
Within DEC mapped wetland

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)
Secondary Indicators (minimum of two required)
Field Observations: Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches):
Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
- Associated w perennial stream IC7012 ST
- Fringe wetland
Photo 45 => WNW

IC7012

Roanoke Song

7/19/10

VEGETATION - Use scientific names of plants.

Sampling Point: \_\_\_\_\_

COVER NOT DETERMINED DUE TO DISTANCE FROM WETLAND

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. SALIX SERICEA	_____	OBL	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. EUPATORIUM MACULATUM	_____	FACW	_____
2. CAREX CRINITA	_____	OBL	_____
3. ODOCIEA SENSIBILIS	_____	FACW	_____
4. TYPHA LATIFOLIA	_____	OBL	_____
5. SCIRPUS ATROVIRENS	_____	OBL	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

**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)

**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 = \_\_\_\_\_

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
  - Dominance Test is >50%
  - Prevalence Index is  $\leq 3.0^1$
  - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators 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 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  No \_\_\_\_\_

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

Cover not determined - no access

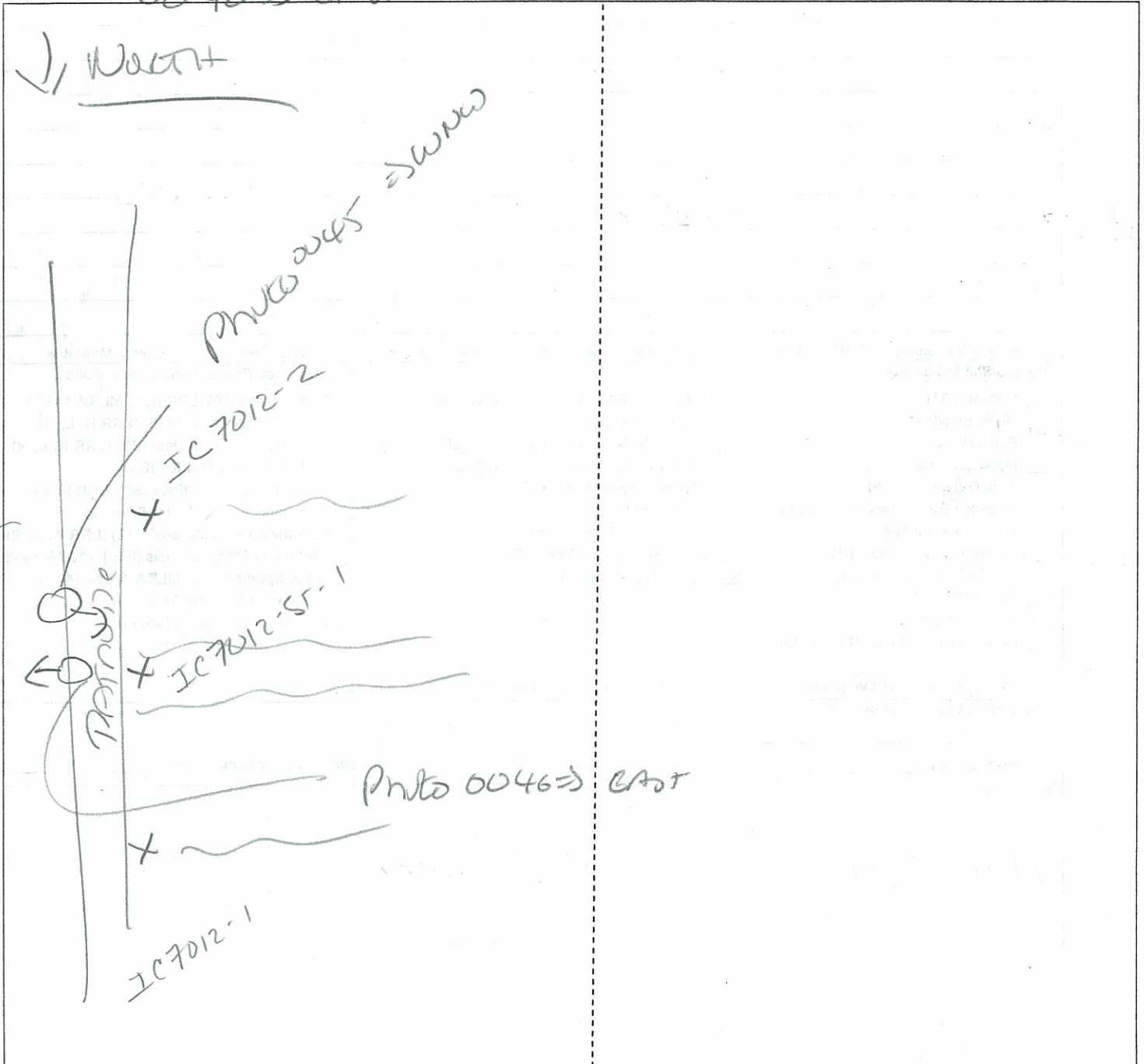
IC 7012

Roadside Survey

7/19/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 0045 ⇒ SWNW 0046 ⇒ EAST	LOCATION:	



LEGEND

-  Photo Location / Direction
-  Sample Station
-  Centerline
-  Flag
-  Wetland
-  Upland
-  Perennial Stream
-  Intermittent Stream

IC 7012

Roanoke Spring

7/19/10

SOIL

Sampling Point: \_\_\_\_\_

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No \_\_\_\_\_

Remarks:

NOT COLLECTED - no Action



IC7013A1B-SS1

WETLAND

7/19/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRLJF City/County: Clinton Sampling Date: 7/19/10
Applicant/Owner: MR, LLC State: NY Sampling Point: SSI
Investigator(s): DELAUNAY Section, Township, Range:
Landform (hillslope, terrace, etc.): FLAT Local relief (concave, convex, none): SLIGHT DEPRESSION
Slope (%): 0 Lat: Long: Datum:
Soil Map Unit Name: NWI classification: DEAN
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N 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 X No
Hydric Soil Present? Yes X No
Wetland Hydrology Present? Yes X No
Is the Sampled Area within a Wetland? Yes X No
Remarks: (Explain alternative procedures here or in a separate report.)
NWI marked WETLAND
A-Line (1-18)
B-Line (1-10)

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)
Secondary Indicators (minimum of two required)
Field Observations: Surface Water Present? Yes X No Depth (inches): 2"
Water Table Present? Yes X No Depth (inches): 8"
Saturation Present? Yes X No Depth (inches): 8"
Wetland Hydrology Present? Yes X No
Remarks: Photo 47 FROM => South
Photo 48 SS2 => WEST AT SSI
Photo 49 => NW

**VEGETATION** – Use scientific names of plants.

Sampling Point: SSI

**Tree Stratum** (Plot size: Ø)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			
5.			
6.			
7.			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

**Sapling/Shrub Stratum** (Plot size: Ø)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
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 = \_\_\_\_\_

**Herb Stratum** (Plot size: SIR)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>GLYCERIA SP</u>	<u>30</u>	<u>Y</u>	<u>OBL</u>
2. <u>POLYGONUM SAGITTATUM</u>	<u>5</u>	<u>N</u>	<u>OBL</u>
3. <u>CAREX SCOPARIA</u>	<u>10</u>	<u>N</u>	<u>FACW</u>
4. <u>PHALARIS ARUNDINACEA</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>
5. <u>SCIRUS ATROVIRENS</u>	<u>30</u>	<u>Y</u>	<u>OBL</u>
6. <u>OPICIA SENSIBILIS</u>	<u>10</u>	<u>N</u>	<u>FACW</u>
7. <u>JUNCUS EFFUSUS</u>	<u>10</u>	<u>N</u>	<u>FACW</u>
8.			
9.			
10.			
11.			
12.			

\_\_\_\_\_ = Total Cover

**Hydrophytic Vegetation Indicators:**

- Rapid Test for Hydrophytic Vegetation
- Dominance Test is >50%
- Prevalence Index is ≤3.0<sup>1</sup>
- Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Woody Vine Stratum** (Plot size: Ø)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			

\_\_\_\_\_ = 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 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  No

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

SOIL

Sampling Point: SSI

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10y6Z/1	1	—	—	—	—	LOAM Silt, w/ organics	
12-14	10y6S/1	1	—	—	—	—	SANDY CLAY	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4) (slight)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Rocky  
Depth (inches): 14"

Hydric Soil Present? Yes  No

Remarks:

Red winged blackbird

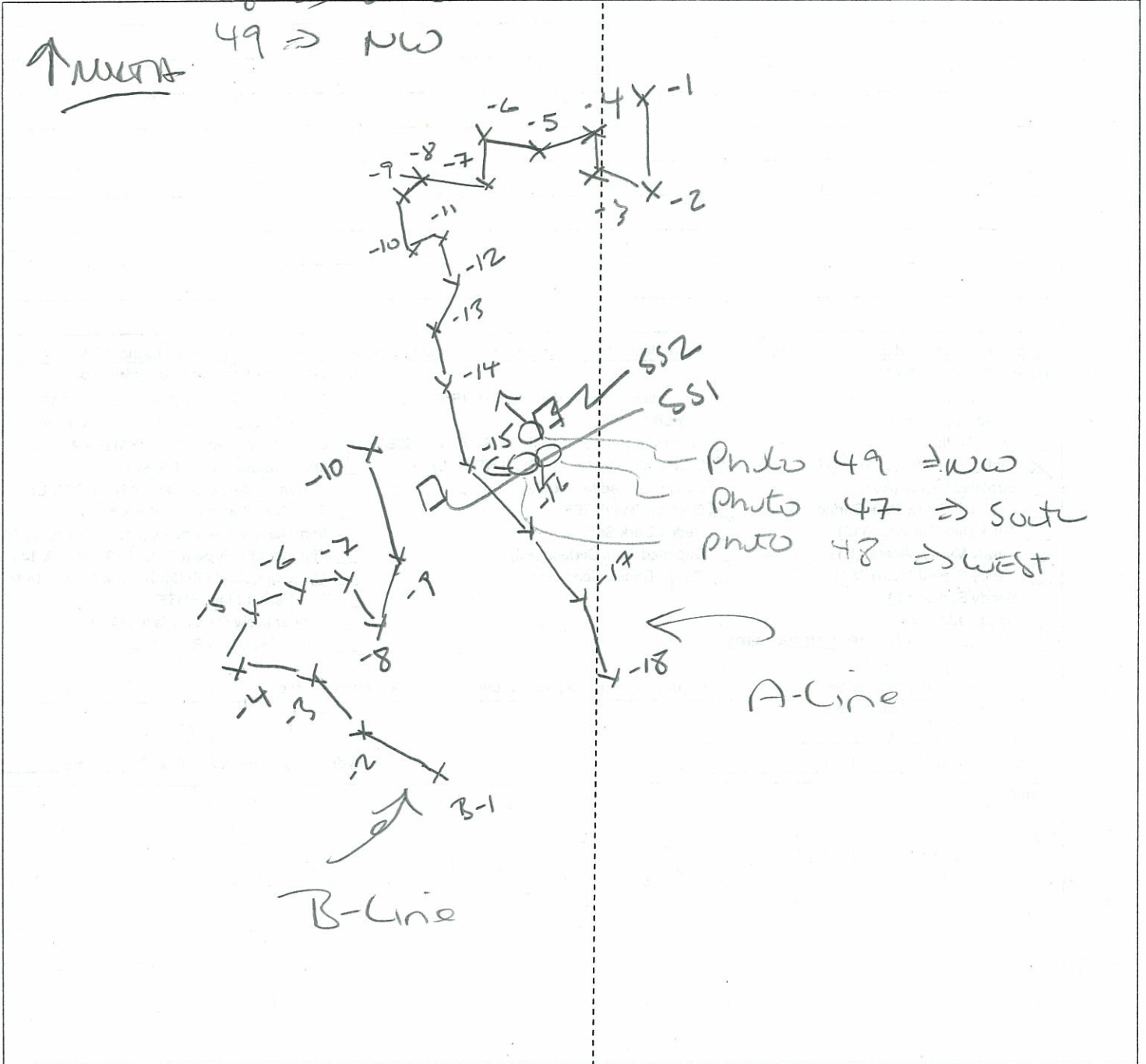
IC7013A/B-SSI

WETLAND

7/19/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 47 ⇒ South 48 ⇒ West 49 ⇒ NW	LOCATION:	



LEGEND

- Photo Location / Direction
- Sample Station
- Centerline
- Flag

- Wetland
- Upland
- Perennial Stream
- Intermittent Stream

IC 7013 AIB-SS2 UPLANDS 7/19/10

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: MRWF City/County: Clinton Sampling Date: 7/19/10  
 Applicant/Owner: MR, LLC State: NY Sampling Point: SS2  
 Investigator(s): DELAHUNTY Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): RELATIVELY FLAT Local relief (concave, convex, none): none  
 Slope (%): <5% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_\_  
 Are Vegetation N, Soil N, or Hydrology N 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 <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) <u>None mapped wetlands</u>	

**HYDROLOGY**

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

IC 7013AIB-SS2

UPLAND

7/19/10

**VEGETATION** – Use scientific names of plants.

Sampling Point: SS2

**Tree Stratum** (Plot size: ∅)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			
5.			
6.			
7.			

**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)

**Sapling/Shrub Stratum** (Plot size: ∅)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			
5.			
6.			
7.			

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>—</u>	x 1 = <u>—</u>
FACW species <u>—</u>	x 2 = <u>—</u>
FAC species <u>15</u>	x 3 = <u>45</u>
FACU species <u>40</u>	x 4 = <u>160</u>
UPL species <u>35</u>	x 5 = <u>175</u>
Column Totals: <u>90</u> (A)	<u>380</u> (B)

Prevalence Index = B/A = 4.22

**Herb Stratum** (Plot size: 5'R)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>PHLEUM PRATENSE</u>	<u>20</u>	<u>N</u>	<u>FACU</u>
2. <u>ACHILLEA MILLEFOLIUM</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
3. <u>HIERACIUM SP.</u>	<u>10</u>	<u>N</u>	<u>UPL*</u>
4. <u>SOLIDAGO RUGOSA</u>	<u>15</u>	<u>N</u>	<u>FAC</u>
5. <u>ARCTIUM LAPPA</u>	<u>15</u>	<u>N</u>	<u>UPL*</u>
6. <u>VICIA CRACCA</u>	<u>10</u>	<u>N</u>	<u>UPL*</u>
7. <u>TARAXACUM OFFICINALE</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
8. <u>GRASS SPECIES</u>	<u>20</u>	<u>N</u>	<u>—</u>
9.			
10.			
11.			
12.			

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
  - Dominance Test is >50%
  - Prevalence Index is ≤3.0<sup>1</sup>
  - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Woody Vine Stratum** (Plot size: ∅)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			

**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 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  No

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

UPL\* - not listed

GRASS SPECIES not included in Prevalence Index

IC 7013A/B-SS2

upland

7/19/10

SOIL

Sampling Point: SS2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-7	10YR2/1							Loamy Sand
7-14	10YR3/6							Loamy Sand

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Rocky  
Depth (inches): 14"

Hydric Soil Present? Yes  No

Remarks:

IC7014-SS1

WETLAND

7/19/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/19/10
Applicant/Owner: MR, LLC State: NY Sampling Point: SS1
Investigator(s): DELAHUNTY Section, Township, Range:
Landform (hillslope, terrace, etc.): base of hill / slope Local relief (concave, convex, none): none
Slope (%): < 5% Lat: Long: Datum:
Soil Map Unit Name: NWI classification: PEAW
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N 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 X No
Hydric Soil Present? Yes X No
Wetland Hydrology Present? Yes X No
Is the Sampled Area within a Wetland? Yes X No
Remarks: (Explain alternative procedures here or in a separate report.)
PEAW (1-13) BASE of hill - contiguous to road closed polygon not within mapped wetlands

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)
Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)
Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)
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)
Field Observations: Surface Water Present? No X Depth (inches):
Water Table Present? Yes X Depth (inches): 8"
Saturation Present? Yes X Depth (inches): 8"
Wetland Hydrology Present? Yes Y No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Includes some mesic area SE portion
Photo 0052 -> NW from PARSONS



VEGETATION - Use scientific names of plants.

Sampling Point: SS1

Tree Stratum (Plot size: <u>Ø</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			
5.			
6.			
7.			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Sapling/Shrub Stratum (Plot size: <u>Ø</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			
5.			
6.			
7.			

**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 = \_\_\_\_\_

Herb Stratum (Plot size: <u>SIR</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>SCIRPUS ATROVIRENS</u>	<u>25</u>	<u>Y</u>	<u>OBL</u>
2. <u>SCIRPUS MICROCALPUS</u>	<u>15</u>	<u>N</u>	<u>OBL</u>
3. <u>GLYCERIA SP.</u>	<u>10</u>	<u>N</u>	<u>OBL</u>
4. <u>POLYPODUM SAGITTATUM</u>	<u>5</u>	<u>N</u>	<u>OBL</u>
5. <u>EQUISETUM SP.</u>	<u>15</u>	<u>N</u>	<u>---</u>
6. <u>EPILOBIMUM SP.</u>	<u>5</u>	<u>N</u>	<u>OBL</u>
7. <u>EUTHAMIA GRAMINIFOLIA</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
8. <u>JUNCUS EFFUSUS</u>	<u>15</u>	<u>N</u>	<u>FACW</u>
9. <u>SCIRPUS CYPERINUS</u>	<u>15</u>	<u>N</u>	<u>FACW</u>
10.			
11.			
12.			

**Hydrophytic Vegetation Indicators:**

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0<sup>1</sup>

Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

2070 ⇒ 22 110 = Total Cover

Woody Vine Stratum (Plot size: <u>Ø</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			

**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 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  No

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

Keels (Mammal), Sens. Eng Fern

**SOIL**

Sampling Point: SSI

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR4/1	100%					Silty clay	
6-10	10YR3/1	75%	10YR3/6	<5%			Silty clay	
10-20	10YR5/2	94%	7.5YR4/6	6%			Sandy clay loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: None  
 Depth (inches): N/A

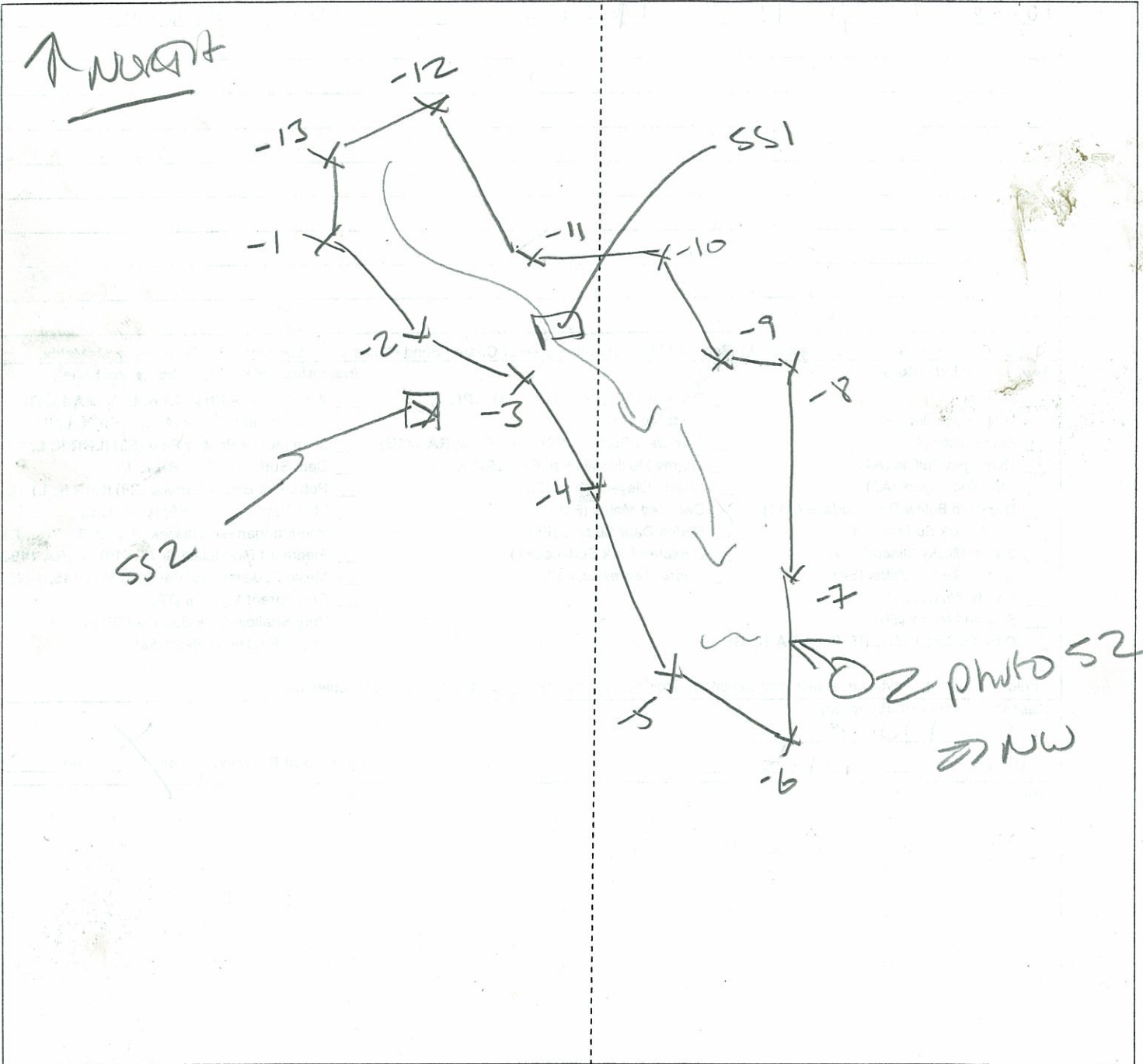
Hydric Soil Present? Yes  No









**Remarks:**

Oxidized rhizo 0-8"

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 52 → NW	LOCATION:	



LEGEND	
	Photo Location / Direction
	Sample Station
	Centerline
	Flag
	Wetland
	Upland
	Perennial Stream
	Intermittent Stream

IC 7014 -SSQ

UPLANDS

7/19/10

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: MRCWF City/County: Clinton Sampling Date: 7/19/10

Applicant/Owner: MR, LLC State: NY Sampling Point: SSQ

Investigator(s): DELAHUNTY Section, Township, Range: \_\_\_\_\_

Landform (hillslope, terrace, etc.): Slight slope to EAST Local relief (concave, convex, none): none

Slope (%): 55% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_

Soil Map Unit Name: \_\_\_\_\_ NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_

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

HYDROLOGY

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

1C7014-SS2

UPLANDS

7/19/10

VEGETATION - Use scientific names of plants.

Sampling Point: SS2

Tree Stratum (Plot size: <u>Ø</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			
5.			
6.			
7.			

**Dominance Test worksheet:**

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

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

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

Sapling/Shrub Stratum (Plot size: <u>Ø</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			
5.			
6.			
7.			

**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 = \_\_\_\_\_

Herb Stratum (Plot size: <u>5'R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>PHLEUM PRATENSE</u>	<u>15</u>	<u>N</u>	<u>FACW</u>
2. <u>VICIA ORACCA</u>	<u>30</u>	<u>Y</u>	<u>UPL*</u>
3. <u>RUBUS ALLEGHENIENSIS</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>
4. <u>GALIUM MOLLUGO</u>	<u>5</u>	<u>N</u>	<u>UPL*</u>
5. <u>DACTYLIS GLOMERATA</u>	<u>20</u>	<u>N</u>	<u>FACW</u>
6.			
7.			
8.			
9.			
10.			
11.			
12.			

**Hydrophytic Vegetation Indicators:**

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0<sup>1</sup>

Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			

**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 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 \_\_\_\_\_ No X

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

UPL\* NOT LISTED

IC 7014-552

Upland

7/19/10

SOIL

Sampling Point: 552

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6"	10yR 2/2-9.5		7.5yR 6/8	5	C	PL		Silt loam

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: PARENT MATERIAL  
Depth (inches): 6"

Hydric Soil Present? Yes  No

Remarks:

OH60157-SS3

WET EXT

7/20/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/20/10
Applicant/Owner: MR, LLC State: NY Sampling Point: SS3
Investigator(s): DECAHUNTY Section, Township, Range:
Landform (hillslope, terrace, etc.): LINEAR VALLEY Local relief (concave, convex, none): NONE
Slope (%): 0 Lat: Long: Datum:
Soil Map Unit Name: NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
Are Vegetation IV, Soil IV, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation IV, Soil N, or Hydrology N 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 X No
Hydric Soil Present? Yes X No
Wetland Hydrology Present? Yes X No
Is the Sampled Area within a Wetland? Yes X No
Remarks: (Explain alternative procedures here or in a separate report.)
PEM WET EXTENSION (101-116) WITH DEC MAPS WET

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)
Secondary Indicators (minimum of two required)
Surface Water (A1) X High Water Table (A2) X Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)
Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)
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)

Field Observations: Surface Water Present? Yes No X Depth (inches):
Water Table Present? Yes X No Depth (inches):
Saturation Present? (includes capillary fringe) Yes X No Depth (inches):
Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Photo 56 => South from -102 at SS3.
Photo 57 => west from hole -105 & -106.
CONNECT WETLANDS OH60157 & IC922-A18K

OH60153-SS3

WET EXT.

7/20/10

VEGETATION - Use scientific names of plants.

Sampling Point: SS3

Tree Stratum (Plot size: <u>30' modified</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>ACER RUBRUM</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>
2. <u>VINCOS AMERICANA</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

2090 -> 4

**Sapling/Shrub Stratum (Plot size: Ø)**

1. <u>N/A</u>	_____	_____	_____
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 = \_\_\_\_\_

**Herb Stratum (Plot size: 5' R)**

1. <u>EUPATORIUM MACULATUM</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>
2. <u>ONOCLEA SENSIBILIS</u>	<u>10</u>	<u>N</u>	<u>FACW</u>
3. <u>BIYCRINA SP.</u>	<u>10</u>	<u>N</u>	<u>OBL</u>
4. <u>IMPATIENS CAPENSIS</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
  - Dominance Test is >50%
  - Prevalence Index is ≤3.0<sup>1</sup>
  - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

2090 -> 24

**Woody Vine Stratum (Plot size: Ø)**

1. <u>N/A</u>	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

\_\_\_\_\_ = 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 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  No

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

MARSH modified; RAISE HELICOBANE  
OTHER PARTS OF WET



OH60153 -SS3

WET EXT

7/20/10

SOIL

Sampling Point: SS3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
D-10	10YR 2/1	100%	—	—			Muck	(silt & organic)
10-20	10YR 3/1	100%	—	—			Silt	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

- Indicators for Problematic Hydric Soils<sup>3</sup>:
- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
  - Coast Prairie Redox (A16) (LRR K, L, R)
  - 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
  - Dark Surface (S7) (LRR K, L)
  - Polyvalue Below Surface (S8) (LRR K, L)
  - Thin Dark Surface (S9) (LRR K, L)
  - Iron-Manganese Masses (F12) (LRR K, L, R)
  - Piedmont Floodplain Soils (F19) (MLRA 149B)
  - Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
  - Red Parent Material (TF2)
  - Very Shallow Dark Surface (TF12)
  - Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: none  
Depth (inches): N/A

Hydric Soil Present? Yes  No

Remarks:

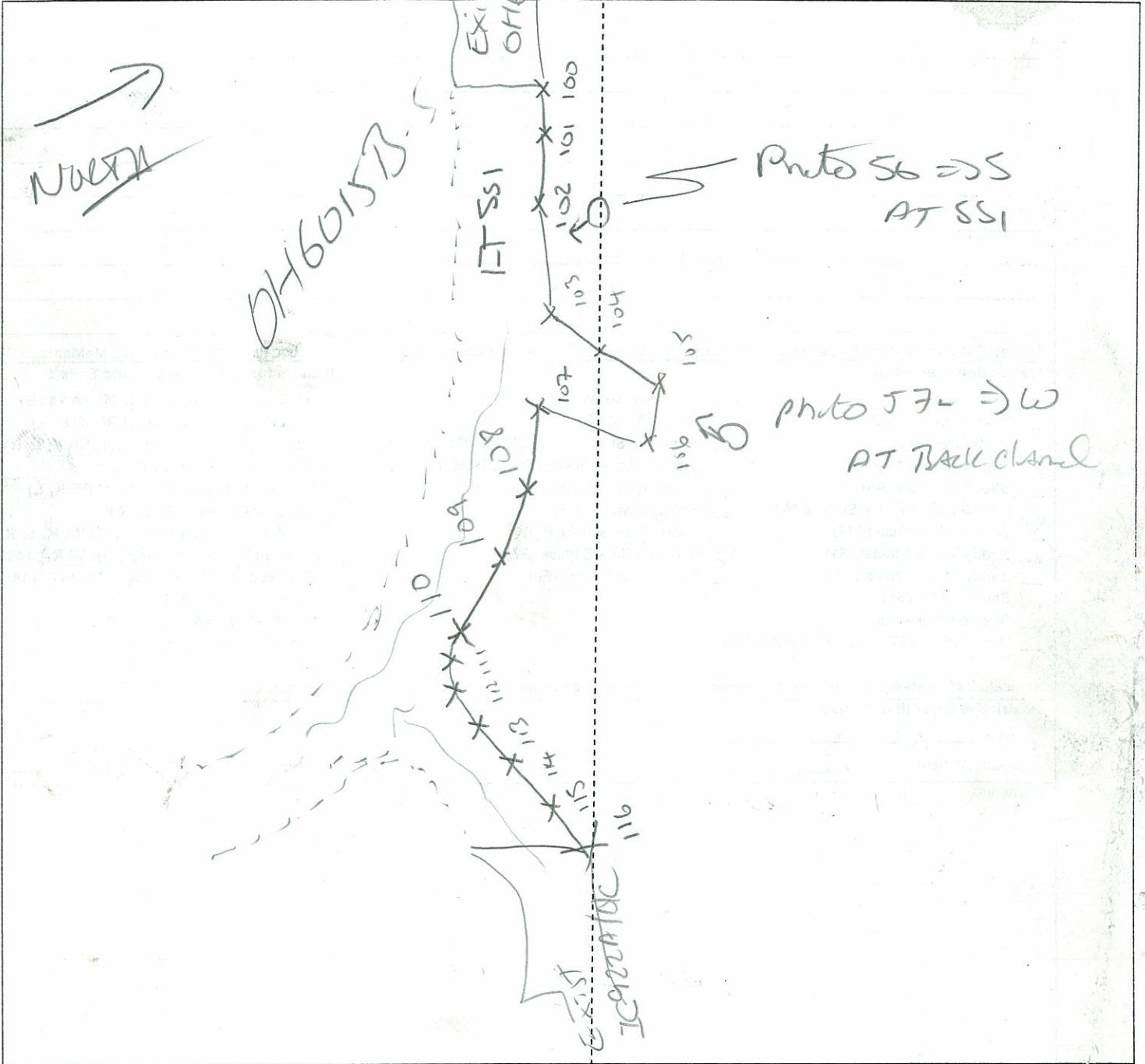
OH60153-SS3

WOTEXT

7/20/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID:	LOCATION:	



LEGEND

- Photo Location / Direction
- Sample Station
- Centerline
- Flag

- Wetland
- Upland
- Perennial Stream
- Intermittent Stream

AR 7016-SSI

Wetland

7/20/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/20/10
Applicant/Owner: MR, LLC State: N.Y. Sampling Point: SSI
Investigator(s): DELAHUNTY Section, Township, Range:
Landform (hillslope, terrace, etc.): RELATIVELY FLAT Local relief (concave, convex, none): none
Slope (%): 0 Lat: Long: Datum:
Soil Map Unit Name: NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N 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 X No
Hydric Soil Present? Yes X No
Wetland Hydrology Present? Yes X No
Is the Sampled Area within a Wetland? Yes X No
Remarks: (Explain alternative procedures here or in a separate report.)
PEM - DEC MAPPED wetland

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)
Secondary Indicators (minimum of two required)
Field Observations: Surface Water Present? Yes X No Depth (inches): 24"
Water Table Present? Yes X No Depth (inches): 0
Saturation Present? (includes capillary fringe) Yes X No Depth (inches): 0
Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Photo 058 -> NE AT SSI From S52
Photo 059 -> S AT AR7016-ST

VEGETATION - Use scientific names of plants.

Sampling Point: \_\_\_\_\_

**Tree Stratum** (Plot size:  $\emptyset$ )

	Absolute % Cover	Dominant Species?	Indicator Status
1. N/A			
2.			
3.			
4.			
5.			
6.			
7.			

\_\_\_\_\_ = Total Cover

**Sapling/Shrub Stratum** (Plot size:  $\emptyset$ )

	Absolute % Cover	Dominant Species?	Indicator Status
1. N/A			
2.			
3.			
4.			
5.			
6.			
7.			

\_\_\_\_\_ = Total Cover

**Herb Stratum** (Plot size: 5' x 2')

	Absolute % Cover	Dominant Species?	Indicator Status
1. PHALARIS ACUTICORNIS 95 Y FACW			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			

95 = Total Cover

**Woody Vine Stratum** (Plot size:  $\emptyset$ )

	Absolute % Cover	Dominant Species?	Indicator Status
1. N/A			
2.			
3.			
4.			

\_\_\_\_\_ = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

**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 = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is  $\leq 3.0^1$

Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators 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 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  No

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

WATER PLANTAIN; Full meadow other parts of wet.

DR 7016 - SSI

WERAND

7/20/10

SOIL

Sampling Point: SSI

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR3/2	100%					Silt & Root Mass	
6-12	2.5Y5/1	90	7.5YR3/4	10	C	PL	Sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

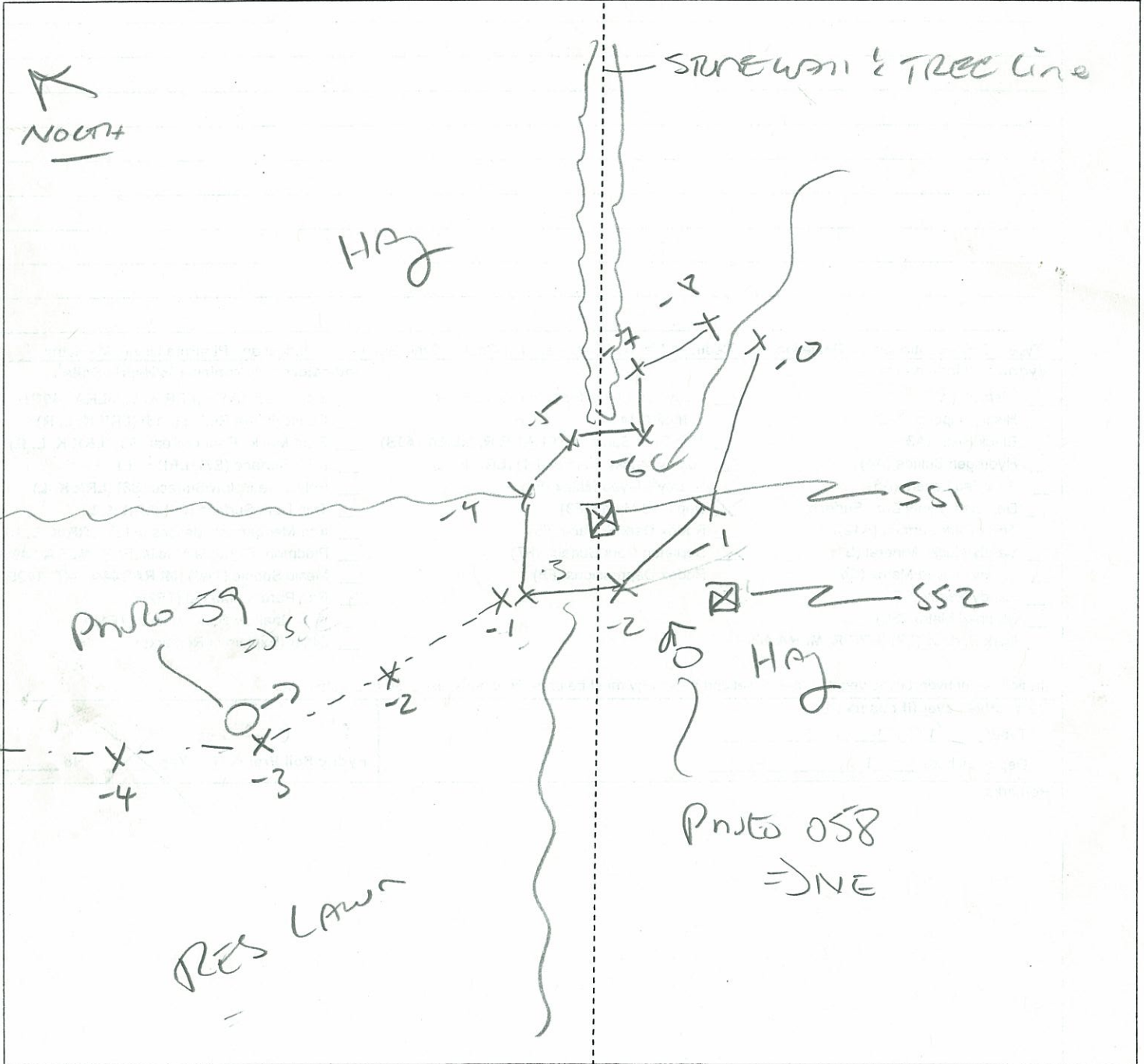
Type: Rocky  
Depth (inches): 12"

Hydric Soil Present? Yes  No

Remarks:

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID:	LOCATION:	



LEGEND

- Photo Location / Direction
- Sample Station
- Centerline
- Flag
- Wetland
- Upland
- Perennial Stream
- Intermittent Stream

FR 7016 -SS2

UPLANDS

7/20/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRUF City/County: Clinton Sampling Date: 7/20/10
Applicant/Owner: MRUC State: NY Sampling Point: SS2
Investigator(s): DELANEY Section, Township, Range:
Landform (hillslope, terrace, etc.): RELATIVELY FLAT Local relief (concave, convex, none): none
Slope (%): 0 Lat: Long: Datum:
Soil Map Unit Name: NWI classification: nmc
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N 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 X
Hydric Soil Present? Yes No X
Wetland Hydrology Present? Yes No X
Is the Sampled Area within a Wetland? Yes No X
If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)
Hay field - Recently Harvested

HYDROLOGY

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

AR7016-552

UPLANDS

7/20/10

VEGETATION - Use scientific names of plants.

Sampling Point: 552

Tree Stratum (Plot size: $\emptyset$ )	Absolute % Cover	Dominant Species?	Indicator Status
1. N/A			
2.			
3.			
4.			
5.			
6.			
7.			

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: NOT DETERMINED (A)  
 Total Number of Dominant Species Across All Strata: 1 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: NOT DETERMINED (A/B)

Sapling/Shrub Stratum (Plot size: $\emptyset$ )	Absolute % Cover	Dominant Species?	Indicator Status
1. N/A			
2.			
3.			
4.			
5.			
6.			
7.			

**Prevalence Index worksheet:**  
 Total % Cover of: \_\_\_\_\_ Multiply by: \_\_\_\_\_  
 OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_  
 FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_  
 FAC species 10 x 3 = 30  
 FACU species 20 x 4 = 80  
 UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_  
 Column Totals: 30 (A) 110 (B)  
 Prevalence Index = B/A = 3.67

Herb Stratum (Plot size: <u>51R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. Ranunculus acris	10	N	FAC
2. GRASS SP.	80	Y	
3. TARAXACUM OFFICINALE	10	N	FACW
4. TRIGLOCH REPENS	10	N	FACW
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			

**Hydrophytic Vegetation Indicators:**  
 Rapid Test for Hydrophytic Vegetation  
 Dominance Test is >50%  
 Prevalence Index is  $\leq 3.0^1$   
 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Woody Vine Stratum (Plot size: $\emptyset$ )	Absolute % Cover	Dominant Species?	Indicator Status
1. N/A			
2.			
3.			
4.			

**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 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 \_\_\_\_\_ No X

Remarks: (Include photo numbers here or on a separate sheet.)  
 GRASS SP NOT USED IN DOMINANCE TEST OR PREVALENCE INDEX.



AR 7016-SSQ

uplands

7/20/10

SOIL

Sampling Point: SSQ

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-17	10yR 2/2	100						SANDY LOAM
17-20	10yR 5/2	90	10yR 3/6	10				SANDY CLAY

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

- |   |  |  |
|---|--|--|
| <b>Hydric Soil Indicators:</b>                                |  | <b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>          |
| <input type="checkbox"/> Histosol (A1)                        | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)       |
| <input type="checkbox"/> Histic Epipedon (A2)                 | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)       | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)     |
| <input type="checkbox"/> Black Histic (A3)                    | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)             | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                        | <input type="checkbox"/> Dark Surface (S7) (LRR K, L)                |
| <input type="checkbox"/> Stratified Layers (A5)               | <input type="checkbox"/> Depleted Matrix (F3)                            | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)     |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)    | <input type="checkbox"/> Redox Dark Surface (F6)                         | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)           |
| <input type="checkbox"/> Thick Dark Surface (A12)             | <input type="checkbox"/> Depleted Dark Surface (F7)                      | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)   |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)             | <input type="checkbox"/> Redox Depressions (F8)                          | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)             |  | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   |
| <input type="checkbox"/> Sandy Redox (S5)                     |  | <input type="checkbox"/> Red Parent Material (TF2)                   |
| <input type="checkbox"/> Stripped Matrix (S6)                 |  | <input type="checkbox"/> Very Shallow Dark Surface (TF12)            |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) |  | <input type="checkbox"/> Other (Explain in Remarks)                  |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**  
 Type: None  
 Depth (inches): N/A

Hydric Soil Present? Yes  No

Remarks:

AR 7018 -SSI

WETLAND

7/20/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRF City/County: Clinton Sampling Date: 7/20/10  
 Applicant/Owner: MR. LLC State: NY Sampling Point: SSI  
 Investigator(s): DELAHUNTY Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Slight slope to east Local relief (concave, convex, none): none  
 Slope (%): \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: PSS/PEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_\_  
 Are Vegetation N, Soil N, or Hydrology N 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 <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	

Remarks: (Explain alternative procedures here or in a separate report.)  
PSS/PEM  
DEC & NWI mapped wetland

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>N/A</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2"</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0"</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: <u>photo 61 =&gt; SW From S at wetland</u>	

VEGETATION – Use scientific names of plants.

Sampling Point: SSI

**Tree Stratum** (Plot size: 30' R)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>BETULA Populifolia</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

**Sapling/Shrub Stratum** (Plot size: 15' R)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>SALIX SERICEA</u>	<u>40</u>	<u>Y</u>	<u>OBL</u>
2. <u>SPIRAEA LATIFOLIA</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

10 = 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 = \_\_\_\_\_

25' R 10 = Total Cover

**Herb Stratum** (Plot size: 5' R)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>JUNCUS ELEGANS</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>
2. <u>SCIRPUS MICROCARPUS</u>	<u>10</u>	<u>N</u>	<u>OBL</u>
3. <u>DOCLEA SENSIILIS</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>
4. <u>ELITHAMIA GRAMINIFLUA</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
5. <u>SPIRAEA TOMENTOSA</u>	<u>10</u>	<u>N</u>	<u>FACW</u>
6. <u>SOLIDAGO ROGOSA</u>	<u>10</u>	<u>N</u>	<u>FAC</u>
7. <u>SCIRPUS CYPERINUS</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>
8. <u>CAREX SCOPARIA</u>	<u>5</u>	<u>N</u>	<u>FACW</u>
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
  - Dominance Test is >50%
  - Prevalence Index is ≤3.0<sup>1</sup>
  - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

20' R 20 = Total Cover

**Woody Vine Stratum** (Plot size: Ø)

1. <u>N/A</u>	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

\_\_\_\_\_ = 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 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.)

SOIL

Sampling Point: SS1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-9	10YR4/1	95	10YR4/4	<5%	C	PL	Silt + organics	
9-20	2.5Y5/1	95%	10YR5/4	<5%	C	M	Sandy clay loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: none  
Depth (inches): n/a

Hydric Soil Present? Yes  No

Remarks:

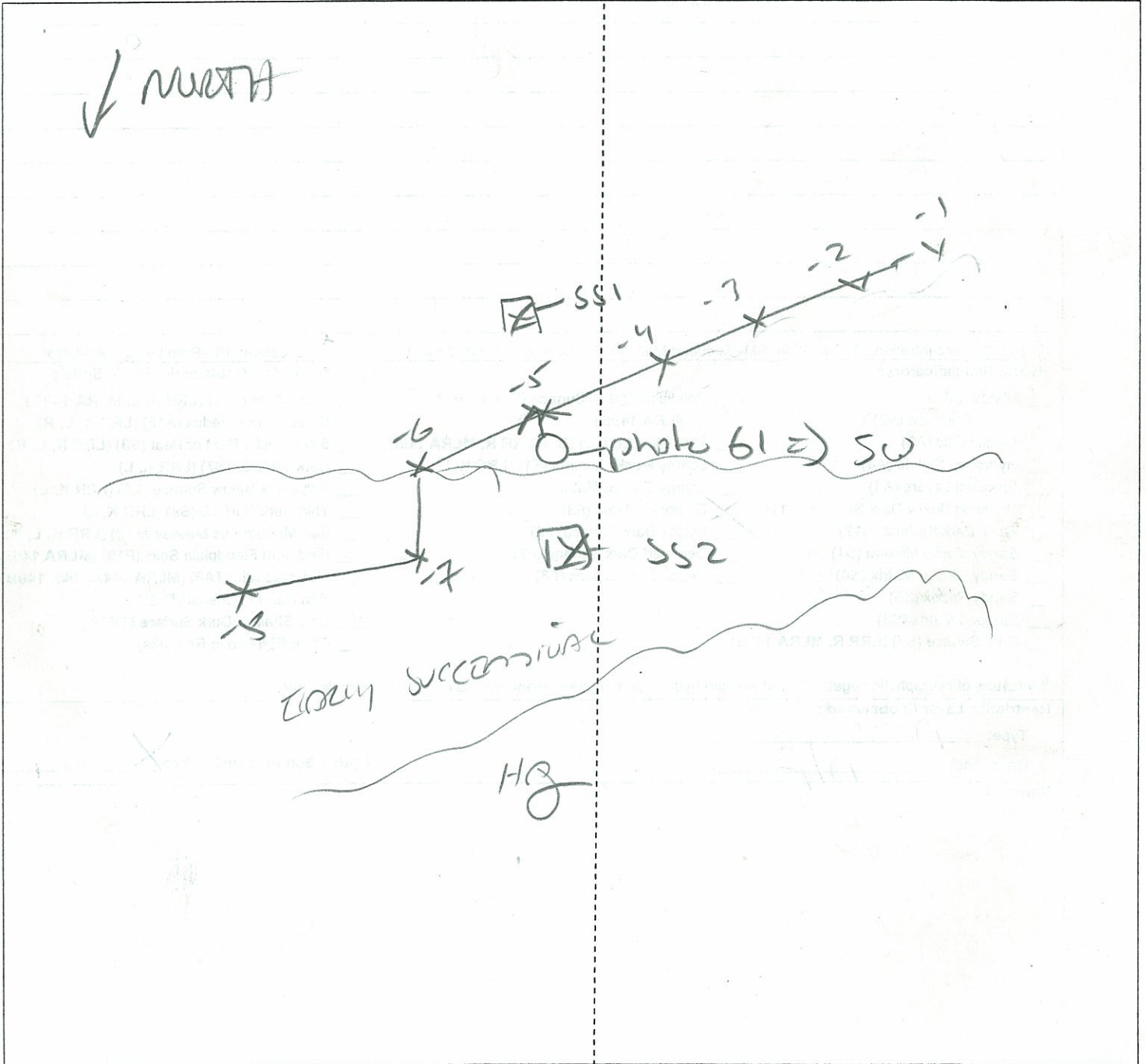
AR7018-SSI

NEVADA

01/20/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID:	LOCATION:	



LEGEND	
	Photo Location / Direction
	Sample Station
	Centerline
	Flag
	Wetland
	Upland
	Perennial Stream
	Intermittent Stream

AR 7018-SS2

upland

7/20/10

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: MRF City/County: Clinton Sampling Date: 7/20/10  
 Applicant/Owner: MR, LLC State: NY Sampling Point: SS2  
 Investigator(s): DELAHUNTY Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Slight slope to south Local relief (concave, convex, none): none  
 Slope (%): \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_\_  
 Are Vegetation N, Soil N, or Hydrology N 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 <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Early successional field</u>	

HYDROLOGY

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

VEGETATION - Use scientific names of plants.

Sampling Point: SS2

**Tree Stratum** (Plot size: Ø)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			
5.			
6.			
7.			

**Sapling/Shrub Stratum** (Plot size: Ø)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			
5.			
6.			
7.			

\_\_\_\_\_ = Total Cover

**Herb Stratum** (Plot size: 5'R)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>SOLIDAGO ROGOSA</u>	<u>35</u>	<u>Y</u>	<u>FAC</u>
2. <u>PARNASSIOSIS quinquefolia</u>	<u>25</u>	<u>Y</u>	<u>FACW</u>
3. <u>GRASS SP. (H.A. 2.47m)</u>	<u>30</u>	<u>Y</u>	<u>---</u>
4. <u>FRAGARIA VIRGINIANA</u>	<u>10</u>	<u>N</u>	<u>FACW</u>
5. <u>SPIREA LATIFOLIA</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
6.			
7.			
8.			
9.			
10.			
11.			
12.			

\_\_\_\_\_ = Total Cover

**Woody Vine Stratum** (Plot size: Ø)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>			
2.			
3.			
4.			

\_\_\_\_\_ = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>1</u>	x 1 = <u>1</u>
FACW species <u>1</u>	x 2 = <u>2</u>
FAC species <u>35</u>	x 3 = <u>105</u>
FACU species <u>35</u>	x 4 = <u>140</u>
UPL species <u>5</u>	x 5 = <u>25</u>
Column Totals: <u>70</u> (A)	<u>245</u> (B)
Prevalence Index = B/A = <u>3.5</u>	

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
  - Dominance Test is >50%
  - Prevalence Index is ≤3.0<sup>1</sup>
  - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators 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 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 \_\_\_\_\_ No X

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

GRASS SP not used in Dominance TEST or Prevalence Index.

Inid

SOIL

Sampling Point: SS2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10y2/2	95	7.5y2/4	5			Silty clay loam	
8-20	5y2/4						clay loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None  
 Depth (inches): N/A

Hydric Soil Present? Yes  No

Remarks:



IC716A13

WETLAND  
Extension

7/2/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRCJF City/County: Clinton Sampling Date: 7/2/10  
 Applicant/Owner: MRC, LLC State: NY Sampling Point: SS3  
 Investigator(s): DELAHANTY Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): none Local relief (concave, convex, none): none  
 Slope (%): 0 Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: POW/PEW  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N, Soil N, or Hydrology N 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 _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present? Yes <u>X</u> No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes <u>X</u> No _____	

Remarks: (Explain alternative procedures here or in a separate report.)  
POW/PEW  
WET EXTENSION (100-111)  
with mapped DELAHANTY wetlands

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	___ Surface Soil Cracks (B6)
<u>X</u> Surface Water (A1)	___ Water-Stained Leaves (B9)
<u>X</u> High Water Table (A2)	___ Drainage Patterns (B10)
<u>X</u> Saturation (A3)	___ Aquatic Fauna (B13)
___ Water Marks (B1)	___ Moss Trim Lines (B16)
___ Sediment Deposits (B2)	___ Marl Deposits (B15)
___ Drift Deposits (B3)	___ Dry-Season Water Table (C2)
___ Algal Mat or Crust (B4)	___ Hydrogen Sulfide Odor (C1)
___ Iron Deposits (B5)	___ Oxidized Rhizospheres on Living Roots (C3)
___ Inundation Visible on Aerial Imagery (B7)	___ Presence of Reduced Iron (C4)
___ Sparsely Vegetated Concave Surface (B8)	___ Recent Iron Reduction in Tilled Soils (C6)
	___ Thin Muck Surface (C7)
	___ Other (Explain in Remarks) <u>X</u>
	___ 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)

Field Observations:

Surface Water Present? Yes <u>X</u> No _____	Depth (inches): <u>52"</u>	Wetland Hydrology Present? Yes <u>X</u> No _____
Water Table Present? Yes <u>X</u> No _____	Depth (inches): <u>8"</u>	
Saturation Present? (includes capillary fringe) Yes <u>X</u> No _____	Depth (inches): <u>8"</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:  
FRIDGE WETLANDS ASSOCIATED w/ pond  
photo 66 - East

IC716 A/B

Wetlands  
EXT

7/21/10

VEGETATION - Use scientific names of plants.

Sampling Point: SS3

Tree Stratum (Plot size: <u>30' modified</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>ACER NEGUNDO</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

**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% (A/B)

**Sapling/Shrub Stratum (Plot size: Ø)**

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

10 = 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 = \_\_\_\_\_

**Herb Stratum (Plot size: 5' R)**

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>PHALARIS ALUNDINACEA</u>	<u>20</u>	<u>N</u>	<u>FACU</u>
2. <u>HYPERICUM PERFORATUM</u>	<u>5</u>	<u>N</u>	<u>UPL*</u>
3. <u>EUTHANIA GRAMINIFOLIA</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
4. <u>JUNCUS EFFUSUS</u>	<u>5</u>	<u>N</u>	<u>FACU</u>
5. <u>TYPHIA LATIFOLIA</u>	<u>5</u>	<u>N</u>	<u>OBL</u>
6. <u>SPIRAEA LATIFOLIA</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
7. <u>PSYLLIADUM SAGITTATUM</u>	<u>5</u>	<u>N</u>	<u>OBL</u>
8. <u>ALISMA SUBCORDATUM</u>	<u>5</u>	<u>N</u>	<u>OBL</u>
9. <u>LYCOPUS UNIFLORUS</u>	<u>40</u>	<u>Y</u>	<u>OBL</u>
10. <u>CICUTA MAEULATA</u>	<u>5</u>	<u>N</u>	<u>OBL</u>
11. <u>IMPATIENS CAPENSIS</u>	<u>5</u>	<u>N</u>	<u>FACU</u>
12. _____	_____	_____	_____

100 = Total Cover

**Hydrophytic Vegetation Indicators:**

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0<sup>1</sup>

Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Woody Vine Stratum (Plot size: Ø)**

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

\_\_\_\_\_ = 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 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  No

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

UPL\* - not listed

IC716A1B

Wetlands Extension

7/21/10

SOIL

Sampling Point: SSC

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8"	10YR 3/1	100					Organics & silt	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: gravelly

Depth (inches): 80

Hydric Soil Present? Yes  No

Remarks:

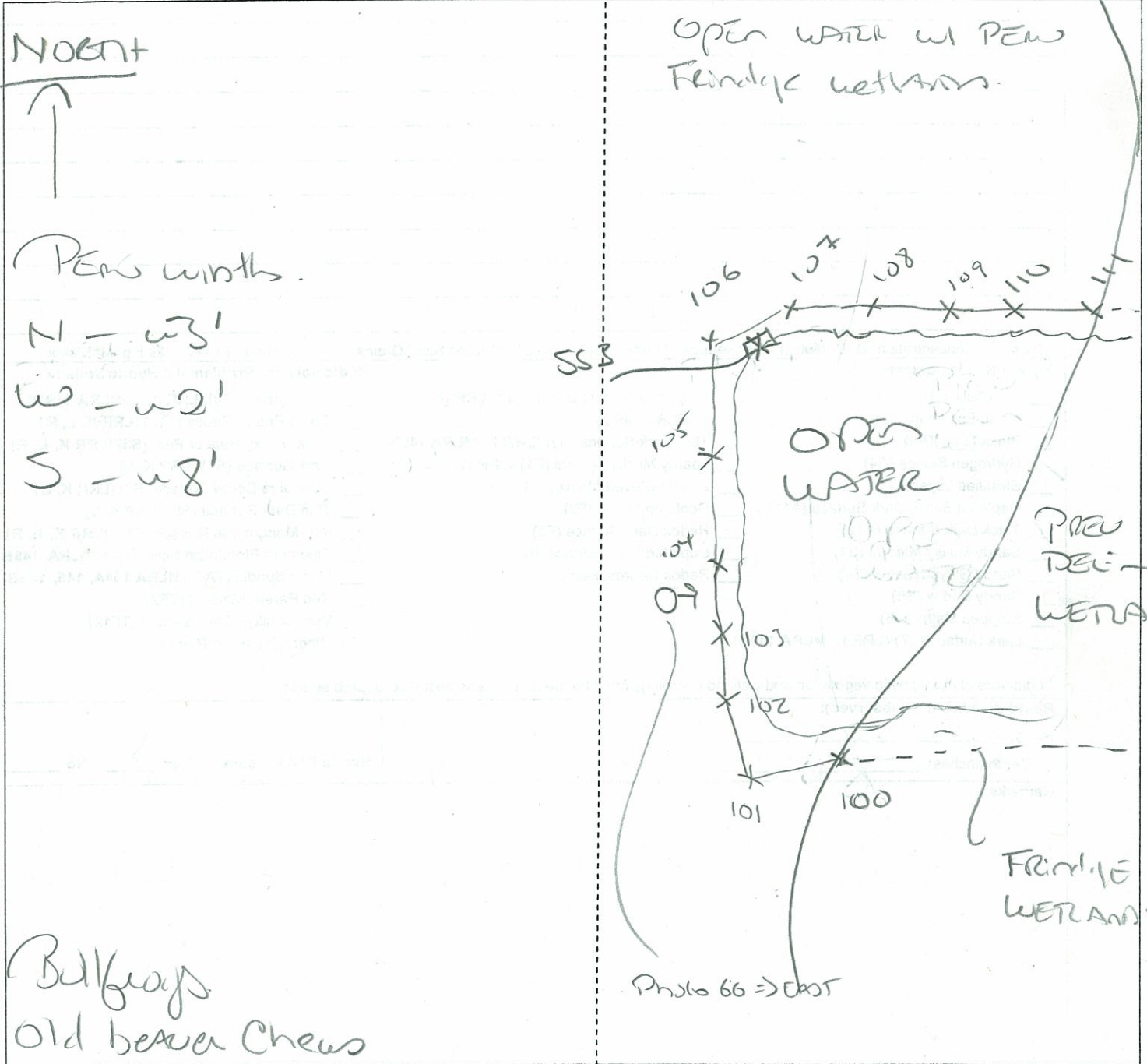
IC 716A1B

WETLANDS  
Extension

7/2/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 66 ⇒ EAST	LOCATION:	



LEGEND

- Photo Location / Direction
- Sample Station
- Centerline
- Flag

- Wetland
- Upland
- Perennial Stream
- Intermittent Stream

IC 7019-SSI

Wetland

7/2/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/2/10
Applicant/Owner: MR, LLC State: NY Sampling Point: SSI
Investigator(s): DELATTI Section, Township, Range:
Landform (hillslope, terrace, etc.): none Local relief (concave, convex, none): none
Slope (%): 0 Lat: Long: Datum:
Soil Map Unit Name: NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N 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 X No
Hydric Soil Present? Yes X No
Wetland Hydrology Present? Yes X No
Is the Sampled Area within a Wetland? Yes X No
Remarks: (Explain alternative procedures here or in a separate report.)
- POW/PEW (1-7)
- OPEN WATER
- W/IN DEC MAPPED WETLAND

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)
Secondary Indicators (minimum of two required)
Surface Water (A1) X Water-Stained Leaves (B9)
High Water Table (A2) X Aquatic Fauna (B13)
Saturation (A3) X 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) X Other (Explain in Remarks)
Sparsely Vegetated Concave Surface (B8)

Field Observations:
Surface Water Present? Yes X No Depth (inches): 22"
Water Table Present? Yes X No Depth (inches): 0"
Saturation Present? (includes capillary fringe) Yes X No Depth (inches): 0"
Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Associated w/ Pond.
Photo 67 => NW Tower 5

ICT019-SSI

WERAN

7/20/10

VEGETATION - Use scientific names of plants.

Sampling Point: SSI

Tree Stratum (Plot size: <u>30 mod. fad</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. ACER RUBRUM	5	Y	FAC
2. ULMUS AMERICANA	5	N	FACW
3. FRAXINUS PENNSYLVANICA	5	Y	FACW
4.			
5.			
6.			
7.			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

2090 → 2

**Sapling/Shrub Stratum (Plot size: ∅)**

1. N/A			
2.			
3.			
4.			
5.			
6.			
7.			

10 = 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 =

**Herb Stratum (Plot size: 5' R)**

1. RHIZALIS ARUNDINACEA	30	Y	FACW
2. IMAGINIS CAPENSIS	30	Y	FACW
3. LYCOPUS UNIFLORUS	30	Y	OBL
4. ONOCLEA SENSIBILIS	10	N	FACW
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			

100 = Total Cover

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
  - Dominance Test is >50%
  - Prevalence Index is ≤3.0<sup>1</sup>
  - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Woody Vine Stratum (Plot size: ∅)**

1. N/A			
2.			
3.			
4.			

100 = 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 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  No

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

CERNA in OPEN WATER  
 CATTAIL & CAREX CRINITA in OTHER PARTS OF WERAN

IC 7019-SS1

WETLAND

7/21/10

SOIL

Sampling Point: SS1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR3/1		—					muck
12-20	10YR3/1		—					Silty clay

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None  
Depth (inches): CL

Hydric Soil Present? Yes  No

Remarks:

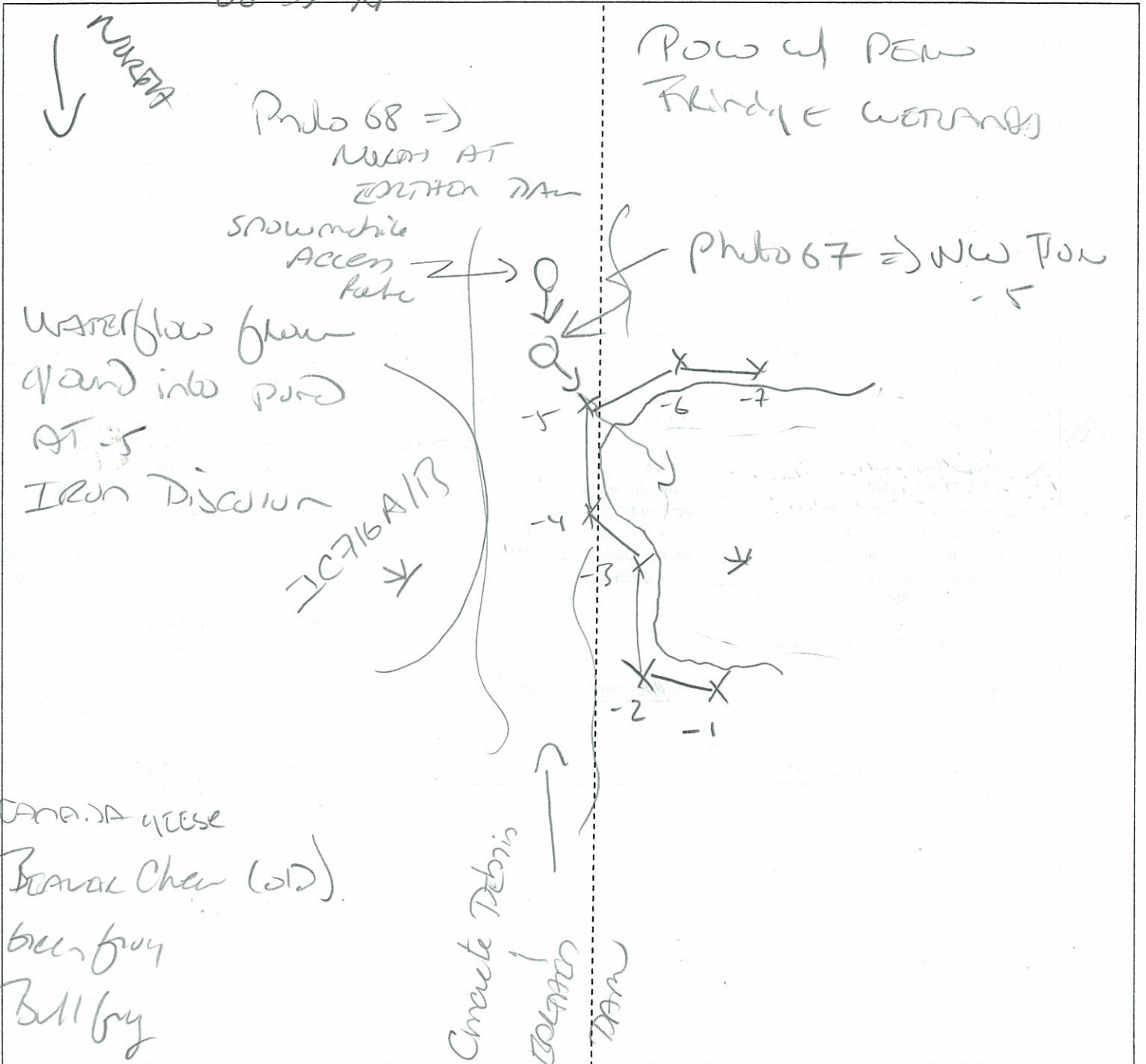
IC7019-SS1

WETLANDS

7/2/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 67 → NW 68 → N	LOCATION:	



LEGEND

- Photo Location / Direction
- Sample Station
- Centerline
- Flag
- Wetland
- Upland
- Perennial Stream
- Intermittent Stream



IC 7019 -SS2

UPLANDS

7/21/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/21/10
Applicant/Owner: MR LLC State: NY Sampling Point: SS2
Investigator(s): DELANEY Section, Township, Range:
Landform (hillslope, terrace, etc.): Slope to North Local relief (concave, convex, none): None
Slope (%): 5% Lat: Long: Datum:
Soil Map Unit Name: NWI classification: PDW1PEW

Are climatic / hydrologic conditions on the site typical for this time of year? Yes [X] No
Are Vegetation [X], Soil [X], or Hydrology [X] significantly disturbed? Are "Normal Circumstances" present? Yes [X] No
Are Vegetation [X], Soil [X], or Hydrology [X] 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 [X]
Hydric Soil Present? Yes No [X]
Wetland Hydrology Present? Yes No [X]
Is the Sampled Area within a Wetland? Yes No [X]
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)
Secondary Indicators (minimum of two required)
Field Observations: Surface Water Present? Yes No [X] Depth (inches):
Water Table Present? Yes No [X] Depth (inches):
Saturation Present? Yes No [X] Depth (inches):
Wetland Hydrology Present? Yes No [X]
Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: SS2

Tree Stratum (Plot size: 25 R)	Absolute % Cover	Dominant Species?	Indicator Status
1. ACER SACCHARUM	10	Y	FACW
2. PRUNUS SEROTINA	10	Y	FACW
3. FRAXINUS PENNSYLVANICA	10	Y	FACW
4.			
5.			
6.			
7.			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 17% (AB)

2090 -> 6

Sapling/Shrub Stratum (Plot size: 15 R)	Absolute % Cover	Dominant Species?	Indicator Status
1. ACER SACCHARUM	80	Y	FACW
2. PRUNUS SEROTINA	10	Y	FACW
3.			
4.			
5.			
6.			
7.			

**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 =

209 - 58

Herb Stratum (Plot size: 5 R)	Absolute % Cover	Dominant Species?	Indicator Status
1. ACER SACCHARUM	25	Y	FACW
2. PRUNUS SEROTINA	5	N	FACW
3. FRAXINUS PENNSYLVANICA	5	N	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			

**Hydrophytic Vegetation Indicators:**

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0<sup>1</sup>

Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

2010 -> 7

Woody Vine Stratum (Plot size: 0)	Absolute % Cover	Dominant Species?	Indicator Status
1. N/A			
2.			
3.			
4.			

**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 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  No

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

**SOIL**

Sampling Point: SS2

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR3/3						Loamy SAND	
6-14	7.5YR4/4						Loamy SAND	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

- |   |  |  |   |  |  |
|---|--|--|---|--|--|
| <b>Hydric Soil Indicators:</b>                                |  |  | <b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> |  |  |
| <input type="checkbox"/> Histosol (A1)                        | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)       |   |  |  |
| <input type="checkbox"/> Histic Epipedon (A2)                 | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)       | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)     |   |  |  |
| <input type="checkbox"/> Black Histic (A3)                    | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)             | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  |   |  |  |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                        | <input type="checkbox"/> Dark Surface (S7) (LRR K, L)                |   |  |  |
| <input type="checkbox"/> Stratified Layers (A5)               | <input type="checkbox"/> Depleted Matrix (F3)                            | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)     |   |  |  |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)    | <input type="checkbox"/> Redox Dark Surface (F6)                         | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)           |   |  |  |
| <input type="checkbox"/> Thick Dark Surface (A12)             | <input type="checkbox"/> Depleted Dark Surface (F7)                      | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)   |   |  |  |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)             | <input type="checkbox"/> Redox Depressions (F8)                          | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |   |  |  |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)             |  | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   |   |  |  |
| <input type="checkbox"/> Sandy Redox (S5)                     |  | <input type="checkbox"/> Red Parent Material (TF2)                   |   |  |  |
| <input type="checkbox"/> Stripped Matrix (S6)                 |  | <input type="checkbox"/> Very Shallow Dark Surface (TF12)            |   |  |  |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) |  | <input type="checkbox"/> Other (Explain in Remarks)                  |   |  |  |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**  
 Type: Rock  
 Depth (inches): 14"

Hydric Soil Present? Yes  No

Remarks:

WTB-44A10K-SS3

WET  
EXT

7/2/10

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/2/10  
Applicant/Owner: MR. LUC State: NY Sampling Point: SS3  
Investigator(s): DEAHUNT Section, Township, Range: \_\_\_\_\_  
Landform (hillslope, terrace, etc.): FLAT Local relief (concave, convex, none): none  
Slope (%): 0 Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
Soil Map Unit Name: \_\_\_\_\_ NWI classification: PFO4/PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain in Remarks.)  
Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  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 <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	

Remarks: (Explain alternative procedures here or in a separate report.)  
MESZ AREA INCLUDES SOME uplands PFO4/PEM (100-107)  
UNDULATING TPO - SATURATED DEPRESSIONAL POCKETS  
Primarily FAC/VEG  
includes upland hummocks NOT mapped

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Microtopographic Relief (D4)
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> Marl Deposits (B15)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input checked="" type="checkbox"/> Other (Explain in Remarks)	
<u>EXPOSED ROOTS</u>	

Field Observations:  
Surface Water Present? Yes \_\_\_\_\_ No  Depth (inches): N/A  
Water Table Present? Yes  No \_\_\_\_\_ Depth (inches): 4"  
Saturation Present? Yes  No \_\_\_\_\_ Depth (inches): 6"  
(includes capillary fringe)

Wetland Hydrology Present? Yes  No \_\_\_\_\_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  
Remarks:  
Recent  $\leftarrow$  sup logging of Tubing Area may have  
Altered Hydro  
Photo 69  $\Rightarrow$  NE from near 104

VEGETATION - Use scientific names of plants.

Sampling Point: SS3

Tree Stratum (Plot size: <u>30R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>ACER RURRUM</u>	<u>10</u>	<u>N</u>	<u>FAC</u>
2. <u>ABIES BAISAMEA</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>
3. <u>FRAXINUS PENNSYLVANICA</u>	<u>5</u>	<u>N</u>	<u>FACW</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 83% (A/B)

2010 -> a

Sapling/Shrub Stratum (Plot size: <u>15R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>CORYLUS CORNUTA</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>
2. <u>FRAXINUS PENNSYLVANICA</u>	<u>5</u>	<u>N</u>	<u>FACW</u>
3. <u>ACER RURRUM</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
4. <u>ABIES BAISAMEA</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

**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 = \_\_\_\_\_

2010 -> b

Herb Stratum (Plot size: <u>5R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>ONOCLEA SENSIBILIS</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>
2. <u>DRYOPTERIS CRISTATA</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>
3. <u>ACER RURRUM</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

**Hydrophytic Vegetation Indicators:**

- Rapid Test for Hydrophytic Vegetation
- Dominance Test is >50%
- Prevalence Index is  $\leq 3.0^1$
- Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators 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 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.

20-28

Woody Vine Stratum (Plot size: <u>9</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>	<u>40</u>	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
_____	_____	_____	_____

**Hydrophytic Vegetation Present?** Yes  No

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

Glyceria; C. scoparium; sly Rush; cork weed

WTG 44 A/B/C - 553

WET  
EXT

7/20/10

SOIL

Sampling Point: 553

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 4/1	50	mix				Silty clay	
12-20	10YR 6/2	85	10YR 3/6	15			Sandy clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

- |  |  |
|--|--|
| <b>Hydric Soil Indicators:</b>   | <b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>  |
| <input type="checkbox"/> Histosol (A1)<br><input type="checkbox"/> Histic Epipedon (A2)<br><input type="checkbox"/> Black Histic (A3)<br><input type="checkbox"/> Hydrogen Sulfide (A4)<br><input type="checkbox"/> Stratified Layers (A5)<br><input type="checkbox"/> Depleted Below Dark Surface (A11)<br><input type="checkbox"/> Thick Dark Surface (A12)<br><input type="checkbox"/> Sandy Mucky Mineral (S1)<br><input type="checkbox"/> Sandy Gleyed Matrix (S4)<br><input type="checkbox"/> Sandy Redox (S5)<br><input type="checkbox"/> Stripped Matrix (S6)<br><input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)<br><input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)<br><input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)<br><input type="checkbox"/> Loamy Gleyed Matrix (F2)<br><input checked="" type="checkbox"/> Depleted Matrix (F3)<br><input type="checkbox"/> Redox Dark Surface (F6)<br><input type="checkbox"/> Depleted Dark Surface (F7)<br><input type="checkbox"/> Redox Depressions (F8)  |
|  | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)<br><input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)<br><input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)<br><input type="checkbox"/> Dark Surface (S7) (LRR K, L)<br><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)<br><input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)<br><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)<br><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)<br><input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)<br><input type="checkbox"/> Red Parent Material (TF2)<br><input type="checkbox"/> Very Shallow Dark Surface (TF12)<br><input type="checkbox"/> Other (Explain in Remarks) |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**  
 Type: None  
 Depth (inches): N/A

Hydric Soil Present? Yes  No

Remarks:

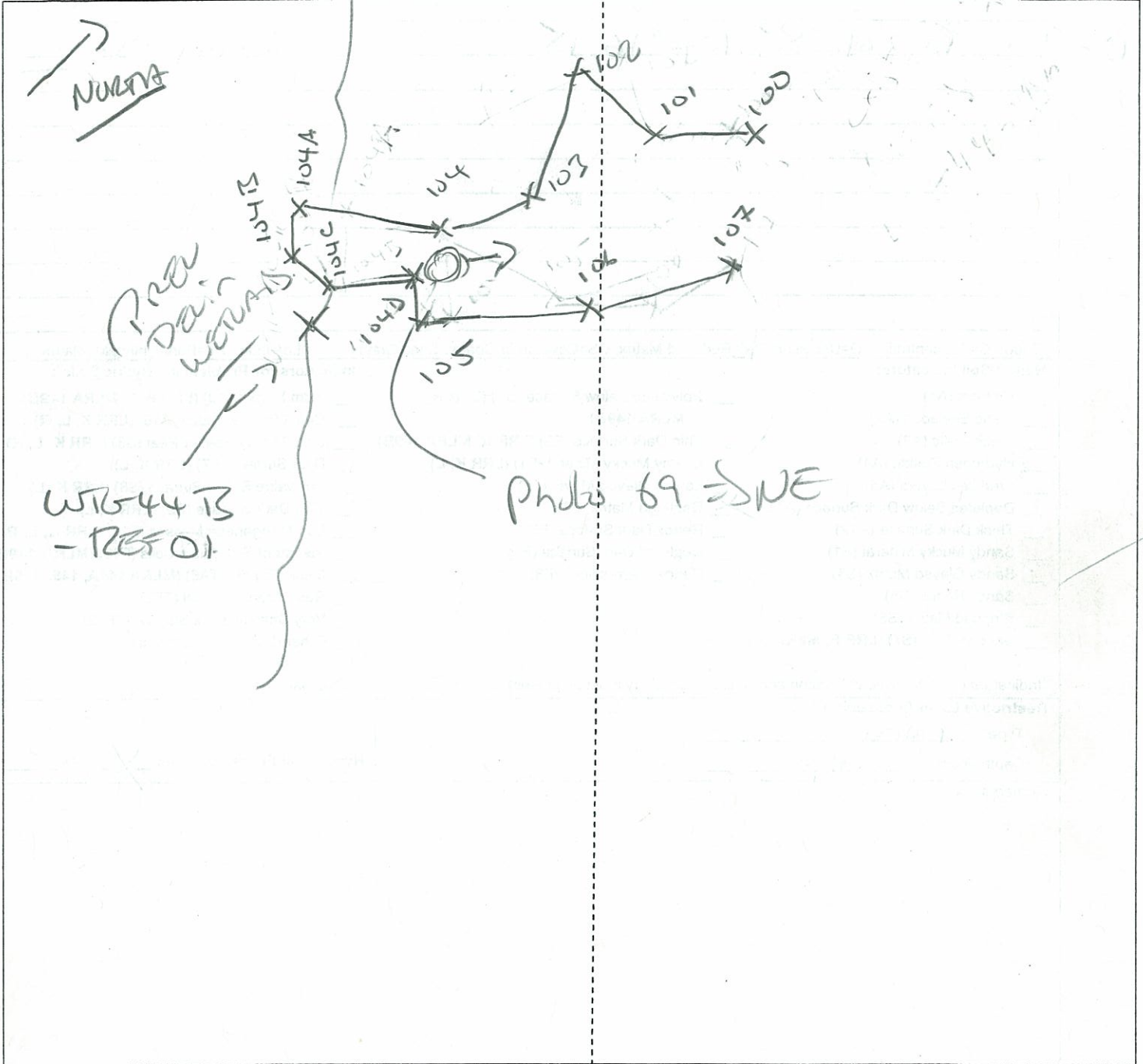
WTB-44A101c

WTB  
Extension

7/21/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 69 → NE	LOCATION:	



LEGEND	
	Photo Location / Direction
	Sample Station
	Centerline
	Flag
	Wetland
	Upland
	Perennial Stream
	Intermittent Stream

IC7020-SSI

WERNER

7/21/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/21/10
Applicant/Owner: MR, LLC State: NY Sampling Point: SSI
Investigator(s): DEATHUNY Section, Township, Range:
Landform (hillslope, terrace, etc.): SLIGHT SLOPE TO WATER Local relief (concave, convex, none): none
Slope (%): 55 Lat: Long: Datum:
Soil Map Unit Name: NWI classification: PFO1 / PEM
Are climatic / hydrologic conditions on the site typical for this time of year? Yes [X] No
Are Vegetation [X], Soil [X], or Hydrology [X] significantly disturbed? Are "Normal Circumstances" present? Yes [X] No
Are Vegetation [X], Soil [X], or Hydrology [X] 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 [X] No
Hydric Soil Present? Yes [X] No
Wetland Hydrology Present? Yes [X] No
Is the Sampled Area within a Wetland? Yes [X] No
Remarks: (PFO1 / PEM within DEC MAPPED WETLAND UNDUATING TOP)

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)
[X] Surface Water (A1) [X] High Water Table (A2) [X] Saturation (A3)
[X] Water-Stained Leaves (B9) [X] Other (Explain in Remarks)
Secondary Indicators (minimum of two required)
[X] Drainage Patterns (B10) [X] FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes [X] No Depth (inches): 2" IN PLACES / POCKETS
Water Table Present? Yes [X] No Depth (inches): 2"
Saturation Present? Yes [X] No Depth (inches): 8"
Wetland Hydrology Present? Yes [X] No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Photos 70 ft +/- NW AT SSI
- Buried trunks & exposed rats
- Very rocky
- Pockets of sphagnum

1330-



IC7020-SS1

WERN

7/21/10

VEGETATION - Use scientific names of plants.

Sampling Point: SS1

Tree Stratum (Plot size: <u>30' R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>FRAXINUS PENNSYLVANICA</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>
2. <u>ACER RUBRUM</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>
3. <u>OSTRYA VIRGINIANA</u>	<u>10</u>	<u>N</u>	<u>FACW</u>
4. <u>BETULA ALLEGHANIENSIS</u>	<u>10</u>	<u>N</u>	<u>FAC</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 71.90 (A/B)

20% → 16

Sapling/Shrub Stratum (Plot size: <u>15' R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>FRAXINUS PENNSYLVANICA</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>
2. <u>OSTRYA VIRGINIANA</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>
3. <u>ACER SACCHARUM</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

**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 = \_\_\_\_\_

20% → 4

Herb Stratum (Plot size: <u>5' R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>IMPATIENS CAPENSIS</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>
2. <u>CAREX CIN. BN</u>	<u>10</u>	<u>Y</u>	<u>OBL</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
  - Dominance Test is >50%
  - Prevalence Index is ≤3.0<sup>1</sup>
  - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

20% → 10

Woody Vine Stratum (Plot size: <u>∅</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>	<u>50</u>	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

**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 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  No

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

Sensitive Gen other pres of wetland

107020-SS1

WBTVA

7/21/70

SOIL

Sampling Point: SS1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10yR2/1							Silt & Organics
10-15	10yR2/1							muck
15-20	10yR5/2	85	7.5yR3/4	15	C	M		Sandy loam

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None  
Depth (inches): N/A

Hydric Soil Present? Yes  No

Remarks:

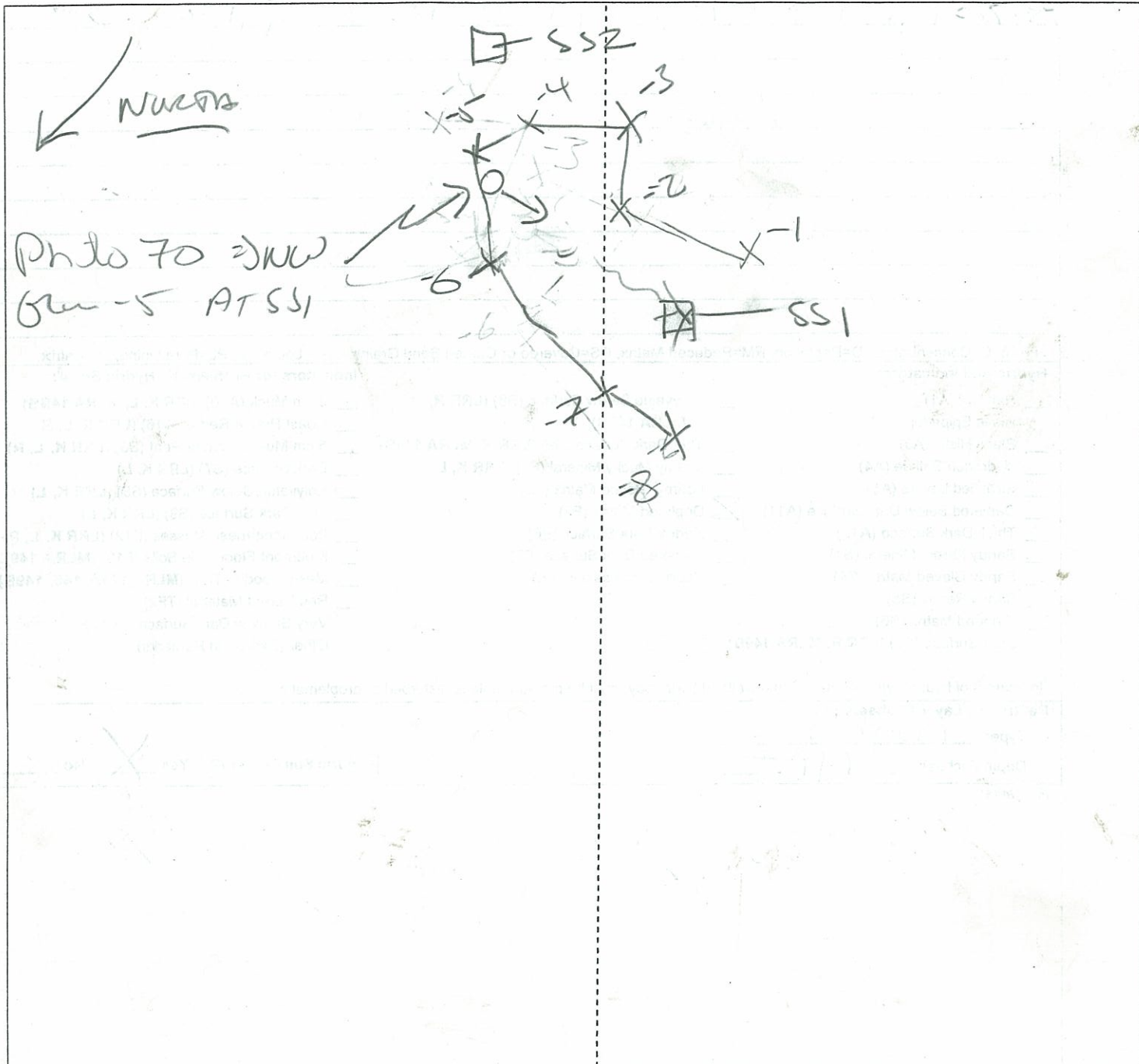
IC7020-SSI

WETLANDS

7/21/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 70-5 NW	LOCATION:	



LEGEND

-  Photo Location / Direction
-  Sample Station
-  Centerline
-  Flag

-  Wetland
-  Upland
-  Perennial Stream
-  Intermittent Stream

IC7020-SS2

poland

7/2/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/2/10
Applicant/Owner: MR LLC State: NY Sampling Point: SS2
Investigator(s): DELAHUNTY Section, Township, Range:
Landform (hillslope, terrace, etc.): SLIGHT slope to NW Local relief (concave, convex, none): none
Slope (%): Lat: Long: Datum:
Soil Map Unit Name: NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes [X] No
Are Vegetation [N], Soil [N], or Hydrology [N] significantly disturbed? Are "Normal Circumstances" present? Yes [X] No
Are Vegetation [N], Soil [N], or Hydrology [N] 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 [X]
Hydric Soil Present? Yes No [X]
Wetland Hydrology Present? Yes No [X]
Is the Sampled Area within a Wetland? Yes No [X]
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)
Secondary Indicators (minimum of two required)
Field Observations: Surface Water Present? Yes No [X] Depth (inches):
Water Table Present? Yes No [X] Depth (inches):
Saturation Present? Yes No [X] Depth (inches):
Wetland Hydrology Present? Yes No [X]
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

ICTO 20-SS2

unland

7/21/10

VEGETATION - Use scientific names of plants.

Sampling Point: SS2

Tree Stratum (Plot size: <u>30' R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>ACER SACCHARUM</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>
2. <u>OSTRYA VIRGINIANA</u>	<u>45</u>	<u>Y</u>	<u>FACW</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

290 -> 15      75 = Total Cover

Sapling/Shrub Stratum (Plot size: <u>15' R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>ACER SACCHARUM</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

20 = Total Cover

Herb Stratum (Plot size: <u>5' R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>ACER SACCHARUM</u>	<u>25</u>	<u>Y</u>	<u>FACW</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

25 = Total Cover

Woody Vine Stratum (Plot size: <u>7</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>N/A</u>	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

**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 = \_\_\_\_\_

- Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
  - Dominance Test is >50%
  - Prevalence Index is ≤3.0<sup>1</sup>
  - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators 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 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 \_\_\_\_\_ No X

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

IC7020-SS2

upland

7/2/10

SS2

**SOIL**

Sampling Point:

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR2/1						Sandy loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Block  
 Depth (inches): 6"

Hydric Soil Present? Yes  No

Remarks: