

IC 7021A/B/C/D WETLAND

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: SS1
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: PFO1/PEM

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 M, 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.)
A line (1-15) B line (1-7) C line (1-10) D line (1-8)
W/lin maps DEC 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) 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? Yes No X Depth (inches): N/A
Water Table Present? Yes X No Depth (inches): 2 1/2
Saturation Present? (includes capillary fringe) Yes X No Depth (inches): 0 1/2
Wetland Hydrology Present? Yes X No

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

Remarks:
Photo 71 -> E From A-6 AT SS1 (Chlanker)
Sphagnum moss, hollowed trunks; exposed
Rats photo 72 -> 5 from C line
Based on topo Hydro flow to west

VEGETATION - Use scientific names of plants.

Sampling Point: SSI

Tree Stratum (Plot size: 30' R)

	Absolute % Cover	Dominant Species?	Indicator Status
1. ACER RUBRUM	40	Y	FAC
2. ABIES RAISAMZA	10	N	FAC
3. OSTRYA VIRGINIANA	10	N	FACU
4.			
5.			
6.			
7.			

WFO → 12      60 = Total Cover

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

	Absolute % Cover	Dominant Species?	Indicator Status
1. VIBURNUM LENTAGO	5	Y	FAC
2. ABIES RAISAMZA	5	Y	FAC
3.			
4.			
5.			
6.			
7.			

WFO → 2      10 = Total Cover

Herb Stratum (Plot size: 5' R)

	Absolute % Cover	Dominant Species?	Indicator Status
1. SPILABA LATIFOLIA	5	N	FAC
2. LYCOPODIUM CLAVATUM	5	N	FAC
3. GLYCERIA SP.	20	Y	OBL
4. SCIRPUS CYPHERINUS	20	Y	FACW
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			

WFO → 11      55 = Total Cover

Woody Vine Stratum (Plot size: ∅)

	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: 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)

**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 \_\_\_\_\_

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

SPHAGNUM - Black

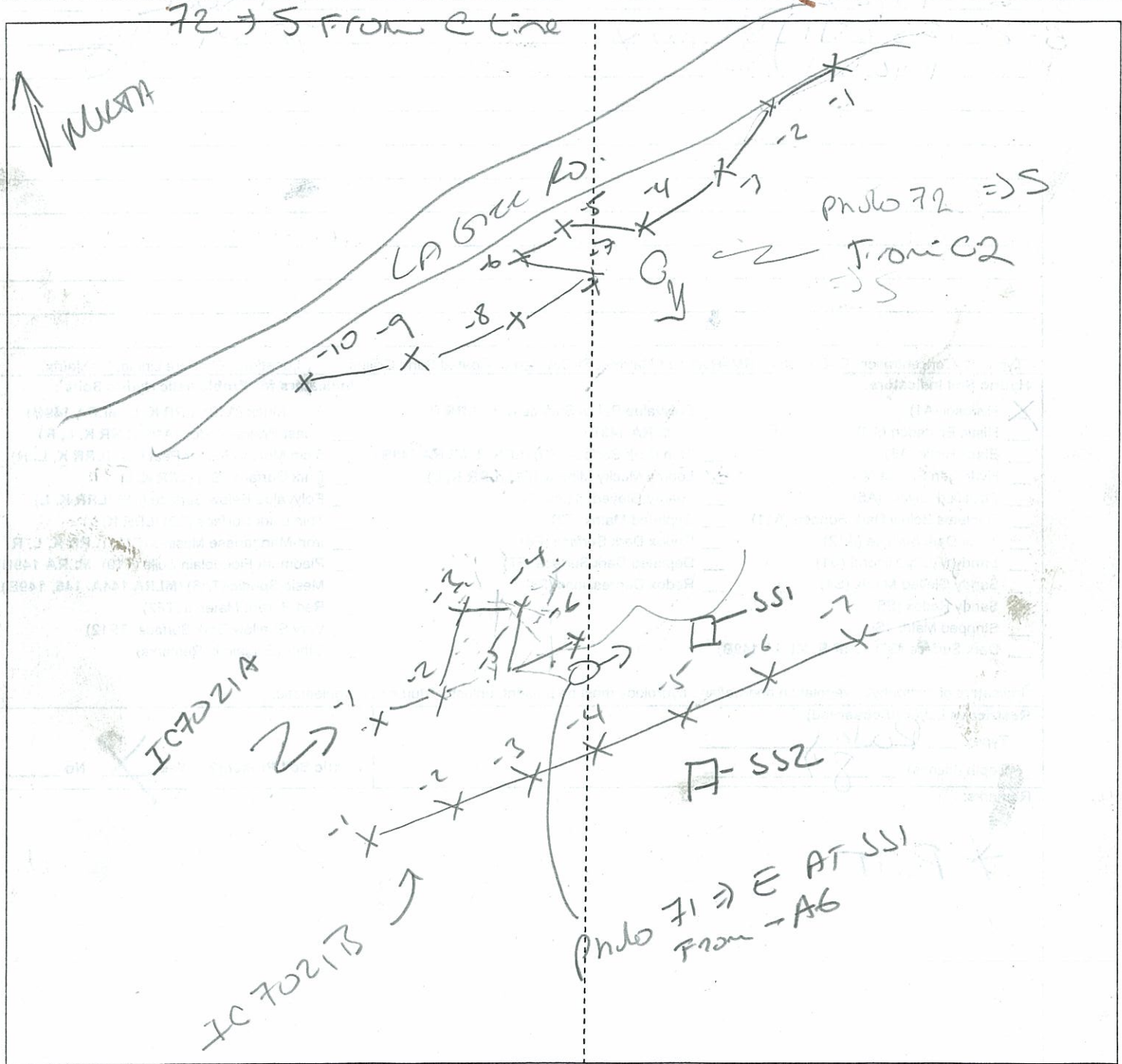


IC7021A/B (downward)

7/21/10

SKETCH SHEET 10 of 2 SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 71 → E AT SSI	LOCATION:	



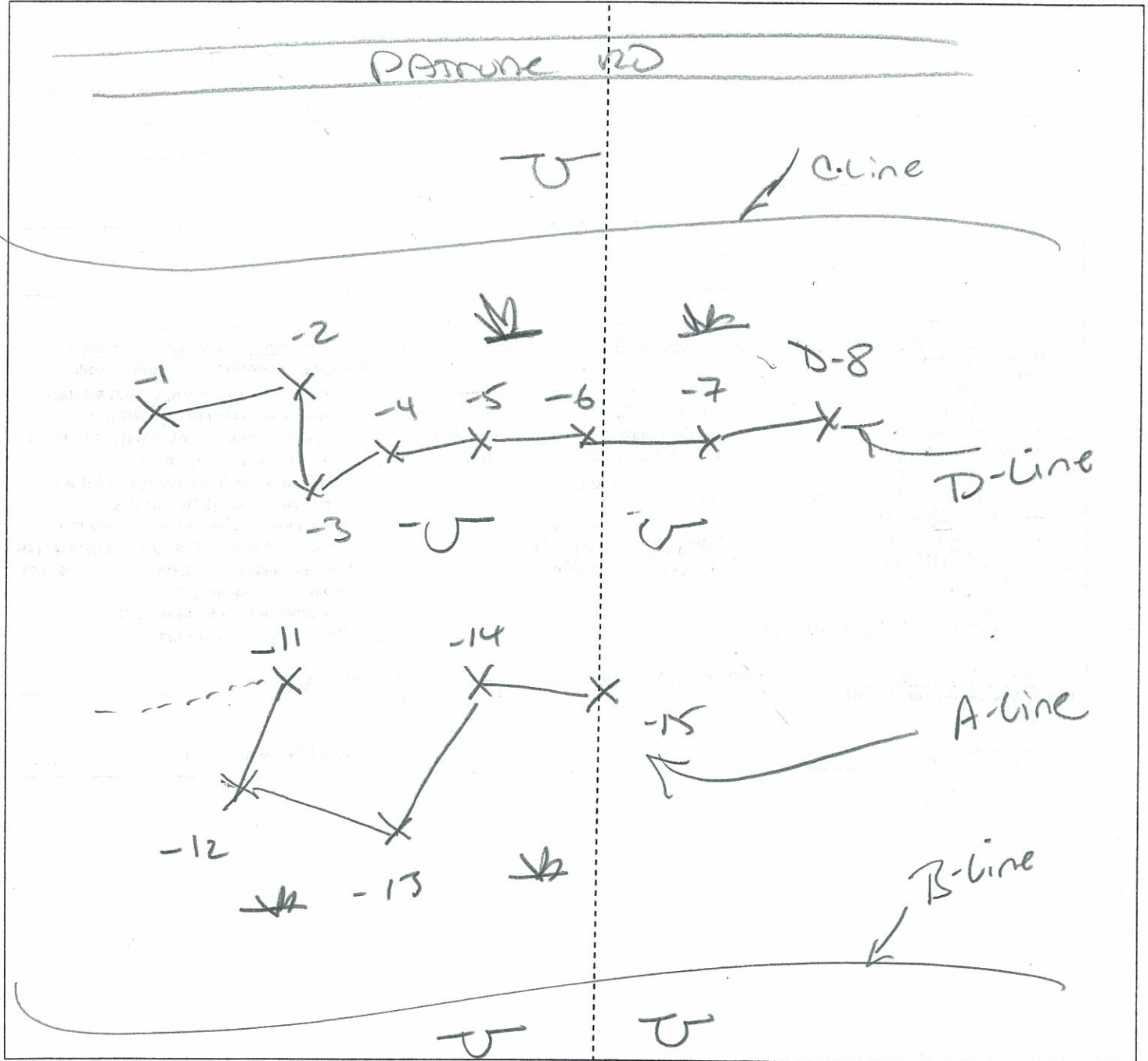
LEGEND	
	Photo Location / Direction
	Sample Station
	Centerline
	Flag
	Wetland
	Upland
	Perennial Stream
	Intermittent Stream

IC7021 AIBIC/D. Extend A line  
 DELIN D line

7/23/10

SKETCH SHEET 2 of 2 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

IC7021 <sup>ALIS/CID</sup> -SS2

Upland

7/21/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRFUF City/County: Clinton Sampling Date: 7/21/10  
 Applicant/Owner: MRLUC State: NY Sampling Point: SS2  
 Investigator(s): DEAN LUTCH Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Slight slope to North Local relief (concave, convex, none): none  
 Slope (%): 5% 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  No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_\_  
 Are Vegetation N, 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 <input checked="" type="checkbox"/> 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.)  
Dominance test Positive for Hydrophytic Veg.  
Prevalence test Negative for Hydro Veg.

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)
	_____ Other (Explain in Remarks)
	_____ 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:	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
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)	

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

Remarks:

IC 7021-SS2 upland

ABIC 113

7/21/10

SS2

VEGETATION - Use scientific names of plants.

Sampling Point: SS2

Tree Stratum (Plot size: 30 R)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>OSTRYA VIRGINIANA</i>	60	Y	FACW
2. <i>ACER RUBRUM</i>	25	Y	FAC
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: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60% (A/B)

Sapling/Shrub Stratum (Plot size: 15 R)

17 = Total Cover

	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>ABIES TRISAMEA</i>	15	Y	FAC
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>80</u>	x 3 = <u>240</u>
FACU species <u>100</u>	x 4 = <u>400</u>
UPL species <u>5</u>	x 5 = <u>25</u>
Column Totals: <u>185</u> (A)	<u>665</u> (B)

Prevalence Index = B/A = 3.59

Herb Stratum (Plot size: 5 R)

15 = Total Cover

	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>PTERIDIUM AQUILINUM</i>	40	Y	FACW
2. <i>DRYOPTERIS CARTHUSIANA</i>	30	Y	FAC
3. <i>ARALIA NUDICAULIS</i>	5	N	UPL*
4. <i>MAIANTHEMUM CANADENSE</i>	10	N	FAC
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:  $\emptyset$ )

17 = Total Cover

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.)

UPL\* - not listed

IC 7021-SS2

unlabeled

7/21/10

**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>		
0-6	10YR 3/1						Silt loam	
6-8	5YR 5/2	50						
	7.5YR 4/1	50	mix				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: Carbon  
 Depth (inches): 8 1/2

Hydric Soil Present? Yes  No

Remarks:



IC7022-SSI

WETLAND

7/29/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/29/10
Applicant/Owner: MR, LLC State: NY Sampling Point: SSI
Investigator(s): DELAHUANTY Section, Township, Range:
Landform (hillslope, terrace, etc.): Slight slope to west Local relief (concave, convex, none):
Slope (%): 55 Lat: Long: Datum:
Soil Map Unit Name: NWI classification: PSS1 PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No
Are Vegetation N, Soil A, or Hydrology H significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil A, or Hydrology H 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.)
A C I - 6
B C I - 5
Assoc. w/ Int stream
IC7022-ST
Which maps DEC WETLAND (not 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)
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) X
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) X
Surface Soil Cracks (B6)
Drainage Patterns (B10) X
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): 211
Saturation Present? (includes capillary fringe) Yes X No Depth (inches): 64
Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
photo 73 => N for SSI
Exposed Roots; Submerged twigs
Sphagnum in places

VEGETATION - Use scientific names of plants.

Sampling Point: SSI

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. ACER RUBRUM	30	Y	FAC
2. ULMUS AMERICANA	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: 7 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 88% (A/B)

10 = Total Cover

Sapling/Shrub Stratum (Plot size: 15' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. CORYLUS CORNUTA	10	Y	FACW
2. FRAXINUS PENNSYLVANICA	20	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 = \_\_\_\_\_

6 = Total Cover

Herb Stratum (Plot size: 5' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. OSMUNDA CLAYTONIIFOLIA		Y	FAC
2. LIMPATIENS CADENSIS	30	Y	FACW
3. ASTER UMBELLATUS	15	Y	FACW
4. ANEMONE	10	N	UPL*
5. Thalictrum			
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.

15 = Total Cover

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

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

UPL\* - NOT LISTED





IC 7022-SS2

upland

7/28/10

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: MRF City/County: Clinton Sampling Date: 7/28/10  
 Applicant/Owner: MRCU State: NY Sampling Point: SS2  
 Investigator(s): \_\_\_\_\_ Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Slight Slope to N Local relief (concave, convex, none): none  
 Slope (%): 5 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 \_\_\_\_\_ (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 <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes <u>X</u> No <u>X</u>	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes _____ No <u>X</u>	

Remarks: (Explain alternative procedures here or in a separate report.)  
Dominance test positive for hydrophytic veg;  
Prevalence Index negative for hydro veg.

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"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input 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 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 type="checkbox"/> Other (Explain in Remarks)	

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:

IC 7022-SS2

upland

7/2/10

VEGETATION – Use scientific names of plants.

Sampling Point: SS2

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>ACER RUTINUM</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>
2. <u>FRAXINUS PENNSYLVANICA</u>	<u>10</u>	<u>N</u>	<u>FACW</u>
3. <u>ABIES TRISAMBICA</u>	<u>10</u>	<u>N</u>	<u>FAC</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>12</u>	<u>60</u> = Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>FRAXINUS PENNSYLVANICA</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>
2. <u>ABIES TRISAMBICA</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>
3. <u>CORYLUS CORNUTA</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>6</u>	<u>30</u> = Total Cover		
Herb Stratum (Plot size: <u>5' R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>RUBUS FLAGELLATUS</u>	<u>10</u>	<u>Y</u>	<u>UPL</u>
2. <u>PTERIDIUM AQUILINUM</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>
3. <u>ABIES TRISAMBICA</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>
4. <u>DRYOPTERIS ARCTHUSIANA</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
<u>8</u>	<u>40</u> = Total Cover		
Woody Vine Stratum (Plot size: <u>Ø</u> )	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: 5 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 62.5% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>—</u>	x 1 = <u>—</u>
FACW species <u>20</u>	x 2 = <u>40</u>
FAC species <u>80</u>	x 3 = <u>240</u>
FACU species <u>20</u>	x 4 = <u>80</u>
UPL species <u>10</u>	x 5 = <u>50</u>
Column Totals: <u>130</u> (A)	<u>410</u> (B)

Prevalence Index = B/A = 3.15

- 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

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

IC7022-SS2

updates

7/29/10

**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>		
0-10	10y2	413					Silt loam	
10-20	7.5y2	414					Silt 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): n/a

Hydric Soil Present? Yes  No

Remarks:

IC 7023-SS1

WETLAND

7/22/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/22/10
Applicant/Owner: MRUC State: NY Sampling Point: SS1
Investigator(s): DECAHUNTY Section, Township, Range:
Landform (hillslope, terrace, etc.): RELAY PLAT Local relief (concave, convex, none): none
Slope (%): 0 Lat: Long: Datum:
Soil Map Unit Name: NWI classification: PFO1/PEN

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.)
PFO1/PSS (1-7) open to water
Just outside of Dec mapped wetlands
Delin portion excluded

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)
[X] Surface Water (A1) (in places)
[X] High Water Table (A2)
[X] Saturation (A3)
[X] Water-Stained Leaves (B9)
[X] Drainage Patterns (B10)
Secondary Indicators (minimum of two required)
[X] Surface Soil Cracks (B6)
[X] Moss Trim Lines (B16)
[X] Dry-Season Water Table (C2)
[X] Crayfish Burrows (C8)
[X] Saturation Visible on Aerial Imagery (C9)
[X] Stunted or Stressed Plants (D1)
[X] Geomorphic Position (D2)
[X] Shallow Aquitard (D3)
[X] Microtopographic Relief (D4)
[X] FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes [X] No Depth (inches): 2" in places (primary to water)
Water Table Present? Yes [X] No Depth (inches): 2"
Saturation Present? 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:
Exposed Roots, Burrows, Trunks
Photo 84 => NORTH AT SS1 FROM -1



VEGETATION - Use scientific names of plants.

Sampling Point: SSI

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. PRAXINUS PENNSYLVANICA	20	Y	FACW
2. ACER RUBRUM	40	Y	FAC
3. ABIES BALSAMEA	10	N	FAC
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: 5 (B)

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

14 = Total Cover

Sapling/Shrub Stratum (Plot size: 15' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. PRAXINUS PENNSYLVANICA	10	Y	TALW
2. ABIES BALSAMEA	5	N	FAC
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 = \_\_\_\_\_

3 = Total Cover

Herb Stratum (Plot size: 5' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. OSMUNDA CLAYTONIIFLORA	20	Y	FAC
2. CAREX PRINATA	10	N	OBL
3. ONOCLEA SENSIBILIS	40	Y	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.

14 = Total Cover

Woody Vine Stratum (Plot size: ∅)	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.)



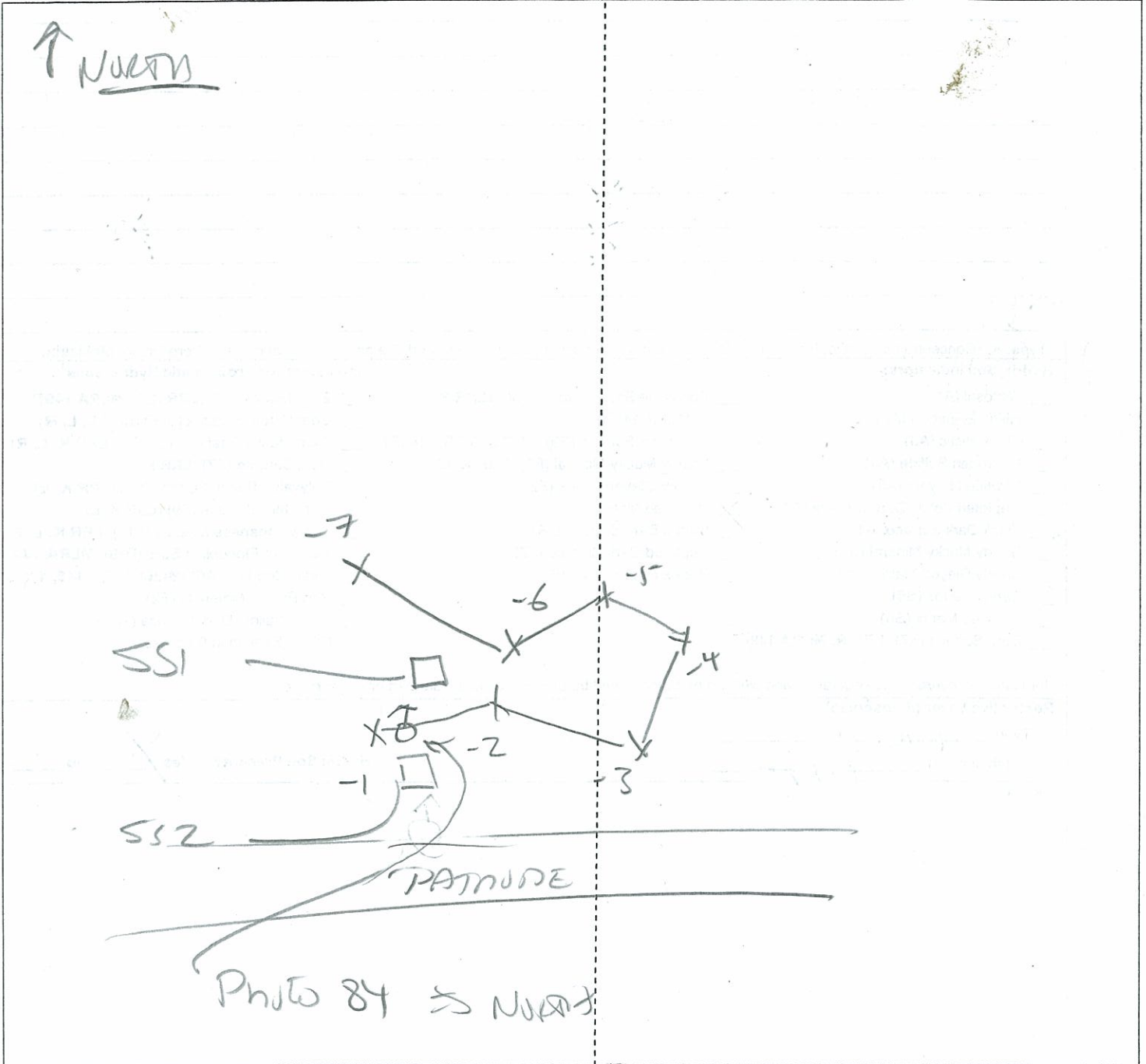
IC7073-SS1

WETLAND

7/22/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 84 → NORTH	LOCATION:	



LEGEND



Photo Location / Direction



Sample Station



Centerline



Flag



Wetland



Upland



Perennial Stream

Intermittent Stream

IC7023-SS2

Upland

7/22/10

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/22/10
Applicant/Owner: MR, LLC State: NY Sampling Point: SS2
Investigator(s): DELANEY Section, Township, Range:
Landform (hillslope, terrace, etc.): RAINY GAT Local relief (concave, convex, none): none
Slope (%): 0 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 X No
Hydric Soil Present? Yes No
Wetland Hydrology Present? Yes No
Is the Sampled Area within a Wetland? Yes No X
Remarks: (Explain alternative procedures here or in a separate report.)
Dominance test positive for Hydrophytic Veg,
Prevalence Index Neg for Hydro Veg.

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? No X Depth (inches):
Water Table Present? No X Depth (inches):
Saturation Present? No X Depth (inches):
Wetland Hydrology Present? Yes No X
Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: SS2

Tree Stratum (Plot size: <u>30 modified</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>ACER SACCHARUM</u>	<u>40</u>	<u>Y</u>	<u>FACU</u>
2. <u>ABIES BALSAMEA</u>	<u>10</u>	<u>N</u>	<u>FAC</u>
3. <u>ACER RUBRUM</u>	<u>10</u>	<u>N</u>	<u>FAC</u>
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: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60% (A/B)

12 = Total Cover

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

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species <u>35</u>	x 3 = <u>165</u>
FACU species <u>65</u>	x 4 = <u>260</u>
UPL species <u>5</u>	x 5 = <u>25</u>
Column Totals: <u>125</u> (A)	<u>450</u> (B)
Prevalence Index = B/A = <u>3.6</u>	

6 = Total Cover

Herb Stratum (Plot size: <u>5 R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>OSMUNDA CLAYTONIANA</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>
2. <u>DRYOPTERIS CALTHUSIANA</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>
3. <u>DRONOS SELOTINA</u>	<u>5</u>	<u>N</u>	<u>FACW</u>
4. <u>ARALIA nudicaulis</u>	<u>5</u>	<u>N</u>	<u>UPL*</u>
5. <u>MAIANTHEMUM</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
6. <u>ORNITHOGALIS</u>	_____	_____	_____
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.

7 = 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.)

UPL\* - NOT LISTED



IC 7024-551

WETLANDS

7/22/10

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: MRFWF City/County: Clinton Sampling Date: 7/22/10  
 Applicant/Owner: MR, LLC State: NY Sampling Point: SSI  
 Investigator(s): DELAHUNTY Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): PLAT Local relief (concave, convex, none): none  
 Slope (%): 0 Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: PFO1/PBM

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.)  
PFO1 / PBM (1-5) open to EAST  
EDGE of improved DEC WETLANDS

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"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input checked="" 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)	

Field Observations:  
 Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): 1"  
 Water Table Present? Yes X No \_\_\_\_\_ Depth (inches): 4"  
 Saturation Present? Yes X No \_\_\_\_\_ Depth (inches): 0"  
 (includes capillary fringe)

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

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

Remarks:  
buttricker Transects  
Photo 85 => EAST

VEGETATION - Use scientific names of plants.

Sampling Point: SSI

Tree Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status
1. ACER RUBRUM	30' modified	40	Y	FAC
2. ABIES TRISAMEA		10	N	FAC
3. FRAXINUS PENNSYLVANICA		10	N	FACW
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)

12 = Total Cover

Sapling/Shrub Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status
1. FRAXINUS PENNSYLVANICA	15' R	10	Y	FACW
2. ABIES TRISAMEA		5	Y	FAC
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 = \_\_\_\_\_

3 = Total Cover

Herb Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status
1. OSMUNDA REGALIS	30' R	30	Y	Obl
2. ONOCLEA SENSIBILIS		10	Y	FACW
3. ABIES TRISAMEA		10	Y	FAC
4.		10		
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.

10 = Total Cover

Woody Vine Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status
1. N/A	Ø			
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 X No \_\_\_\_\_

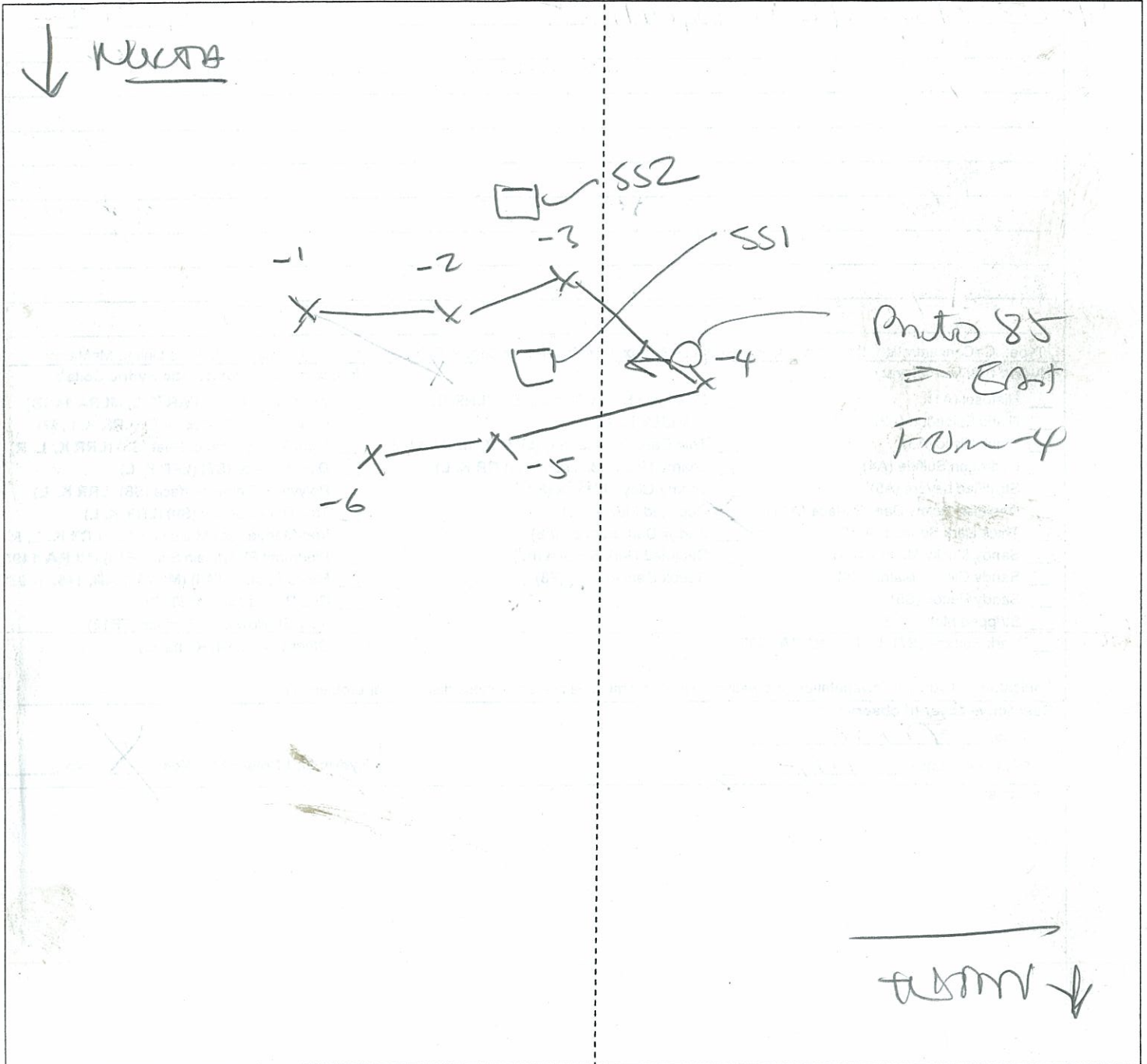
Remarks: (Include photo numbers here or on a separate sheet.)





SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 85 → E	LOCATION:	



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

IC7024552

UPLAND

7/22/10

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: MRLWF City/County: Clinton Sampling Date: 7/22/10  
Applicant/Owner: MR, LLC State: NY Sampling Point: 552  
Investigator(s): DEL AHUATY Section, Township, Range: \_\_\_\_\_  
Landform (hillslope, terrace, etc.): Slight Slope to West Local relief (concave, convex, none): none  
Slope (%): <5% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
Soil Map Unit Name: \_\_\_\_\_ NWI classification: NIA

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 <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> 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>DOMINANCE TEST POSITIVE FOR Hydrophytic Veg</u> <u>PREVALENCE INDEX NEG. FOR Hydric Veg.</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? 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:	

IC7024-SS2

UPLAND

7/22/10

SS2

VEGETATION - Use scientific names of plants.

Sampling Point:

Tree Stratum (Plot size: 30' R)

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Populus TREMULOIDES</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>
2. <u>ABIES TRISAMBICA</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>
3. <u>ACER RUBRUM</u>	<u>20</u>	<u>Y</u>	<u>FAC</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)

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

15 = Total Cover

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

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species <u>10</u>	x 2 = <u>20</u>
FAC species <u>35</u>	x 3 = <u>105</u>
FACU species <u>50</u>	x 4 = <u>200</u>
UPL species _____	x 5 = _____
Column Totals: <u>115</u> (A)	<u>335</u> (B)

Prevalence Index = B/A = 3.35

Herb Stratum (Plot size: 5' R)

10 = Total Cover

	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>ERAXINUS PENNSYLVANICA</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>
2. <u>DRONOS SEROTINA</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>
3. <u>ACER RUBRUM</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
4. <u>LYCOPodium</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
5. <u>CIPARIATUM</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.

**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: Ø)

6 = Total Cover

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

**Hydrophytic Vegetation Present?** Yes  No

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

Soils: 0-4 - 10yr 3/1 10AM

4-20 - 10yr 4/2 5Mdy dg



AR 7031 - SSI

WETEXT

7/22/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRFWF City/County: Clinton Sampling Date: 7/22/10  
 Applicant/Owner: MR, LLC State: NY Sampling Point: SS-1  
 Investigator(s): DELAHUNTY Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): SLIGHT SLOPE TO SW Local relief (concave, convex, none): SWALE  
 Slope (%): <5% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: DEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation TA, 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 _____		
Wetland Hydrology Present?	Yes <u>X</u> No _____		
Remarks: (Explain alternative procedures here or in a separate report.)			
<p><u>HAY FIELD - Recently mowed/harrowed</u>  <u>Carex ssp. prominent</u>  <u>DEM WET (1-6) SWALE</u></p> <p style="text-align: right;"><u>NOT ASSOCIATED w mowed wetlands</u></p>			

HYDROLOGY

<b>Wetland Hydrology Indicators:</b>		<b>Secondary Indicators (minimum of two required)</b>	
<b>Primary Indicators (minimum of one is required; check all that apply)</b>			
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input checked="" 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 checked="" 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 <u>X</u> No _____	Depth (inches): _____	Wetland Hydrology Present? Yes <u>X</u> No _____	
Water Table Present? Yes <u>X</u> No _____	Depth (inches): _____		
Saturation Present? (includes capillary fringe) Yes <u>X</u> No _____	Depth (inches): <u>10"</u>		

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

Remarks:

Photo OLD => WEST

WET EXT of DELIA WET AR18A/OH1201A

DRAINS to wetlands mowed NW & DEC WETLANDS

VEGETATION - Use scientific names of plants.

Sampling Point: SS-1

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: 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: $\emptyset$ )	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	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. SCIRPUS SP. 30 Y FACU			
2. PHALARIS ARUNDINACEA 60 Y FACU			
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  $\leq 3.0^1$
  - 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

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

VEGETATION Recently HARROWED  
ACTIVE Hay fields  
\* PREVIOUS FACW

**SOIL**

Sampling Point: SS-1

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 4/1							Silty clay
6-20	Gley 1 5/10Y 5/0		7.5YR 4/6	50%	C	M		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): N/A

Hydric Soil Present? Yes  No

**Remarks:**

Soils Extremely hydric



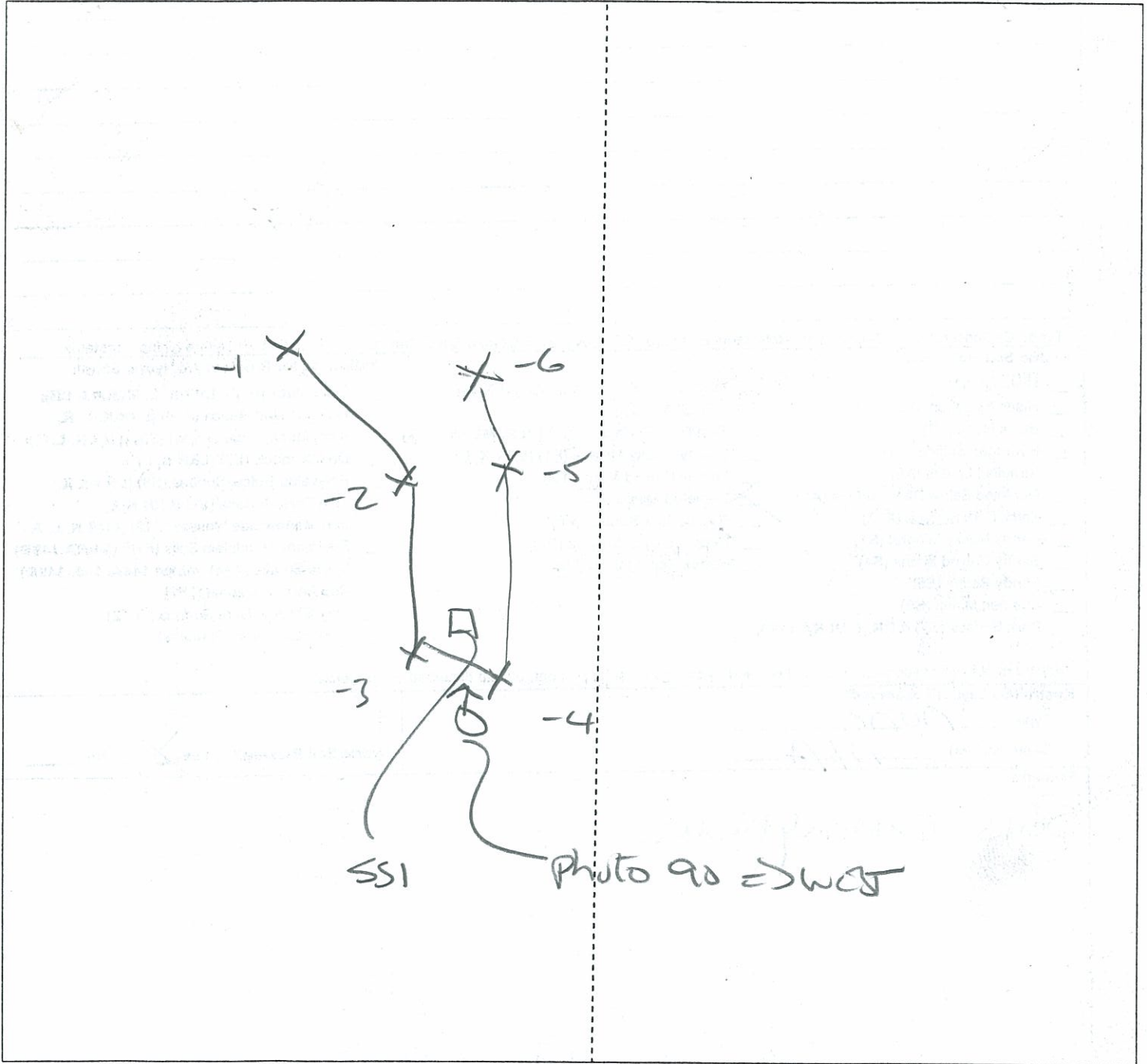
AR7031-SS1

WETEXT

7/22/10

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

IC 7025B-SS1  
(WETLAND IC 7025 A10K)

WEST

7/22/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRFWF City/County: Clinton Sampling Date: 7/22/10  
Applicant/Owner: MRB, LLC State: NY Sampling Point: SS  
Investigator(s): DELAHUNTY Section, Township, Range: \_\_\_\_\_  
Land form (hillslope, terrace, etc.): FIAT Local relief (concave, convex, none): none  
Slope (%): 0 Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
Soil Map Unit Name: \_\_\_\_\_ NWI classification: PSS1PEW

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.)  
PSS1PEW MADE NEW SITE  
(1-5)

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>X</u> Surface Water (A1)	___ Surface Soil Cracks (B6)
<u>X</u> High Water Table (A2)	___ Drainage Patterns (B10)
<u>X</u> Saturation (A3)	___ Moss Trim Lines (B16)
___ Water Marks (B1)	___ Dry-Season Water Table (C2)
___ Sediment Deposits (B2)	___ Crayfish Burrows (C8)
___ Drift Deposits (B3)	___ Saturation Visible on Aerial Imagery (C9)
___ Algal Mat or Crust (B4)	___ Stunted or Stressed Plants (D1)
___ Iron Deposits (B5)	___ Geomorphic Position (D2)
<u>X</u> Inundation Visible on Aerial Imagery (B7)	___ Shallow Aquitard (D3)
___ Sparsely Vegetated Concave Surface (B8)	___ Microtopographic Relief (D4)
<u>X</u> Water-Stained Leaves (B9)	___ FAC-Neutral Test (D5)
___ 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)	

Field Observations:	
Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>4+'</u>	Wetland Hydrology Present? Yes <u>X</u> No _____
Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u>	
Saturation Present? (includes capillary fringe) Yes <u>X</u> No _____ Depth (inches): <u>0</u>	

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

Remarks:  
Photo 91 => S

IC 7025 B-SS

WET

7/22/10

VEGETATION - Use scientific names of plants.

Sampling Point: SS-1

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: 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: 15' R)

	Absolute % Cover	Dominant Species?	Indicator Status
1. ALNUS RUGOSA	<u>20</u>	<u>Y</u>	<u>FACW</u>
2. ACER RUBRUM	<u>10</u>	<u>Y</u>	<u>FAC</u>
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: 5' R) 30 = Total Cover

	Absolute % Cover	Dominant Species?	Indicator Status
1. TYRHA LATIFOLIA	<u>40</u>	<u>Y</u>	<u>OBL</u>
2. EUPATORIUM MACULATUM	<u>0</u>	<u>N</u>	<u>FACW</u>
3. ECHINAMIA GRAMINIFOLIA	<u>5</u>	<u>N</u>	<u>FAC</u>
4. GLYCYRIA SP.	<u>5</u>	<u>N</u>	<u>OBL</u>
5. ONOCLEA SENSIBILIS	<u>10</u>	<u>N</u>	<u>FACW</u>
6. ASCLEPIAS INCARNATA	<u>5</u>	<u>N</u>	<u>OBL</u>
7. CAREX BRINITA	<u>10</u>	<u>N</u>	<u>OBL</u>
8. ASTER UMBELLATUS	<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  $\leq 3.0^1$

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:  $\emptyset$ ) 26 = Total Cover

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

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

Extensive wetlands

LEMNA in open water

IC 7025B-SS1

WET

7/22/10

SOIL

Sampling Point: SS-1

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>		
0-20	10YR2/1						Muck	Silt 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): N/A

Hydric Soil Present? Yes  No

Remarks:

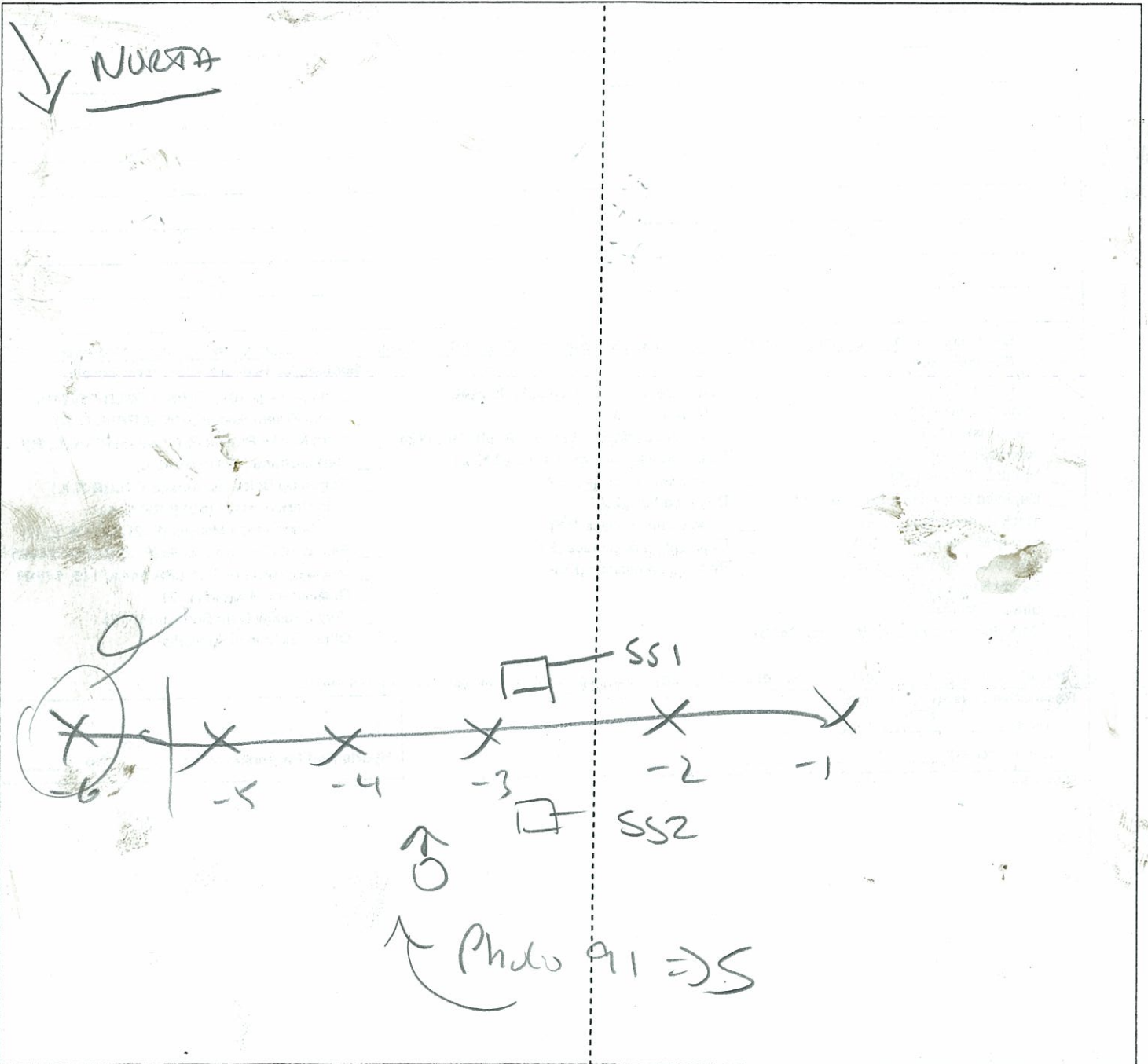
IC70257-SS1

WET

7/22/10

SKETCH FORM

WETLAND ID/ROUTE ID:		PROJECT:	
INITIALS OF DELINEATORS:		DATE:	TIME:
PHOTO ID: 91-55		LOCATION:	



LEGEND



Photo Location / Direction



Sample Station



Centerline



Flag



Wetland



Upland



Perennial Stream



Intermittent Stream

IC7025B  
-SS2

UPIAN  
(WETLAND IC7025ARIC)

7/22/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRLWF City/County: Clinton Sampling Date: 7/22/10  
Applicant/Owner: MRL, LLC State: NY Sampling Point: SS  
Investigator(s): DELAHUNTY 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: NIA

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 <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	If yes, optional Wetland Site ID: _____	
Wetland Hydrology Present?	Yes _____ No <u>X</u>		

Remarks: (Explain alternative procedures here or in a separate report.)  
DOMINANCE TEST FOR HYDROPHYTIC VEI - POSITIVE  
PREVALENCE INDEX FOR HYDRO VEI - NEGATIVE

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"/> 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)

**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:  
Photo

IC 7025B-SS2

Upland

712210

SS-2

VEGETATION - Use scientific names of plants.

Sampling Point: SS-2

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
1. <i>Abies balsamea</i>	25	Y	FAC	
2. <i>Acer saccharum</i>	35	Y	FACW	
3. <i>Acer rubrum</i>	25	Y	FAC	
4.				
5.				
6.				
<b>Sapling/Shrub Stratum (Plot size: 15' R)</b> Total Cover: <u>85</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species: <u>0</u> x 1 = <u>0</u> FACW species: <u>0</u> x 2 = <u>0</u> FAC species: <u>70</u> x 3 = <u>210</u> FACU species: <u>40</u> x 4 = <u>160</u> UPL species: <u>5</u> x 5 = <u>25</u> Column Totals: <u>115</u> (A) <u>395</u> (B) Prevalence Index = B/A = <u>3.43</u>
1. <i>Abies balsamea</i>	5	Y	FAC	
2. <i>Corylus cornuta</i>	5	Y	FACW	
3. <i>Acer rubrum</i>	5	Y	FAC	
4.				
5.				
6.				
<b>Herb Stratum (Plot size: 5' R)</b> Total Cover: <u>15</u>				
1. <i>Michanthemum canadense</i>	5	Y	FAC	
2. <i>Dryopteris orthosiana</i>	5	Y	FAC	
3. <i>Rubus flagellaris</i>	5	Y	UPL*	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
<b>Woody Vine Stratum (Plot size: <del>0</del>)</b> Total Cover: <u>15</u>				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. N/A				
2.				
3.				
4.				
<b>Definitions of Vegetation Strata:</b> <b>Tree</b> - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. <b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> - All woody vines greater than 3.28 ft in height.				
_____ = Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>

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

Upland Decid/Conif mix  
UPL\* - not listed

IC 70253-SS1

UPIArid

7/22/10

SOIL

Sampling Point: SS-2

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>		
0-5	10YR2/1						loam	Organics
5-10	10YR5/4	95	7.5YR5/8	5	C	PL	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: Rocky  
Depth (inches): 10"

Hydric Soil Present? Yes  No

Remarks:



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/23/10
Applicant/Owner: MR, LLC State: NY Sampling Point: SS-1
Investigator(s): DELAHUNTY 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: PSS1P2M

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 mapped wetland PSS1P2M (1-9)

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)
Secondary Indicators (minimum of two required)
[X] Surface Soil Cracks (B6) [X] Drainage Patterns (B10) [X] Moss Trim Lines (B16)
Wetland Hydrology Present? Yes [X] No

Field Observations: Surface Water Present? Yes [X] No Depth (inches): 4+
Water Table Present? Yes [X] No Depth (inches): 0
Saturation Present? 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 94 -> SW Available water flow with wet
- FRESH deer chews / trampled logs
- elevated water level
- IRON RESIDUE in water

WTG-4A R-SSI

WBTUAD

7/23/10

VEGETATION - Use scientific names of plants.

Sampling Point: SS-1

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

	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Q. AMERICANA</i>	10	Y	FACW
2. <i>BETULA POPULIFOLIA</i>	5	Y	FAC
3.			
4.			
5.			
6.			
7.			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)

Total Number of Dominant Species Across All Strata: 7 (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. <i>SPIRAEA LATIFOLIA</i>	10	Y	FAC
2. <i>SALIX SERICEA</i>	10	Y	OBL
3. <i>ALNUS RUGOSA</i>	10	Y	FACW
4.			
5.			
6.			
7.			

**Prevalence Index worksheet:**

Total % Cover of: 3 Multiply by:

OBL species 3 x 1 = 3

FACW species 0 x 2 = 0

FAC species 0 x 3 = 0

FACU species 0 x 4 = 0

UPL species 0 x 5 = 0

Column Totals: (A) 3 (B) 3

Prevalence Index = B/A = 1

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

	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>ONOCLEA SENSIBILIS</i>	20	Y	FACW
2. <i>ASTER UMBELLATUS</i>	10	N	FACW
3. <i>CAREX CLINITA</i>	20	Y	OBL
4. <i>IMPATIENS CAPENSIS</i>	10	N	FACW
5. <i>LYCOPUS UNIFLORUS</i>	5	N	OBL
6. <i>GLUCEATA SP</i>	5	N	OBL
7. <i>POA PAUCIFLORA</i>	10	N	FACW
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:  $\emptyset$ )

	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

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

Bill frog

WTB-4AR-SS1

WETLAND

7/23/10

SOIL

Sampling Point: SS-1

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>		
0-2	10YR 4/1						Organic	
2-8	10YR 5/1	93%	7.5YR 3/4	75%			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: bedrock  
Depth (inches): 8"

Hydric Soil Present? Yes  No

Remarks:

- Shallow soils over bedrock  
- Exposed bedrock in places

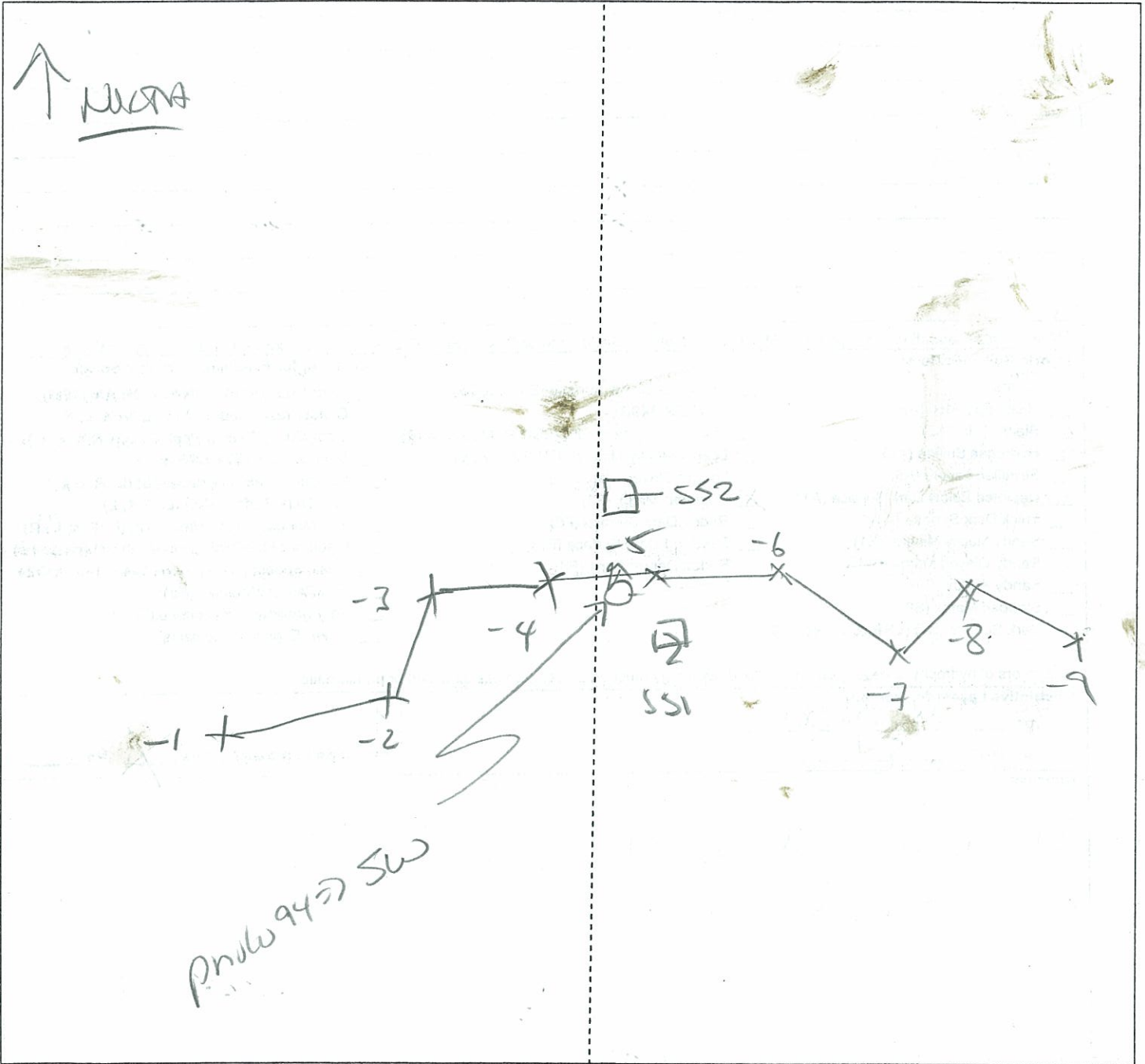
WTB-4AR-SSI

Wetland

7/23/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 94 → SW	LOCATION:	



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

WTG-4AR-SS2

upland

7/23/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWF City/County: Clinton Sampling Date: 7/23/10
Applicant/Owner: MR, LLC State: NY Sampling Point: SS-2
Investigator(s): DELAHUNTY Section, Township, Range:
Landform (hillslope, terrace, etc.): Slight slope to south Local relief (concave, convex, none): none
Slope (%): 5% Lat: Long: Datum:
Soil Map Unit Name: NWI classification: NIA
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 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.)
Dominance test for Hydrophytic Veg - Positive;
Prevalence Index for Hydric Veg - Negative

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): N/A
Water Table Present? Yes No X Depth (inches): N/A
Saturation Present? (includes capillary fringe) Yes No X Depth (inches): N/A
Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Photos

WTB-4AK-SS2

upland

7/23/10

VEGETATION - Use scientific names of plants.

Sampling Point: SS-2

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. ACER RUBRUM	15	Y	FAC
2. PRUNUS SEROTINA	10	Y	FACW
3. BERTULA POPULIFOLIA	15	Y	FAC
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: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B)

8 = Total Cover

Sapling/Shrub Stratum (Plot size: 15' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. CORYLUS CORNUTA	10	Y	FACW
2. RUBUS IDEAUS	5	Y	FAC
3.			
4.			
5.			
6.			
7.			

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species <u>65</u>	x 3 = <u>195</u>
FACU species <u>20</u>	x 4 = <u>80</u>
UPL species	x 5 =
Column Totals: <u>85</u> (A)	<u>275</u> (B)

Prevalence Index = B/A = 3.24

3 = Total Cover

Herb Stratum (Plot size: 5' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. SOLIDAGO RUGOSA	10	Y	FAC
2. SPIRAEA LATIFOLIA	10	Y	FAC
3. MAIANTHEMUM CANADENSE	10	Y	FAC
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.

6 = Total Cover

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

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

WTG-4AR-SS2

upland

7123110

**SOIL**

Sampling Point: SS-2

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						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: 150 Rock  
 Depth (inches): 6''

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

Remarks:

IC7025 A-SS1 7/23/10  
 (WETLAND IC7025A1B1C)

WET

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: MRWLF City/County: Clinton Sampling Date: 7/23/10  
 Applicant/Owner: MR, LLC State: NY Sampling Point: SS-1  
 Investigator(s): DELAHUNTY 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: PSS1 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.)  
PSS1PEM (1-7)  
W/in mapped Dec 1 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 checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2)      ___ Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3)      ___ Marl Deposits (B15) ___ Water Marks (B1) <input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2)      ___ Oxidized Rhizospheres on Living Roots (C3) ___ Drift Deposits (B3)      ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4)      ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5)      ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7)      ___ Other (Explain in Remarks) ___ Sparsely Vegetated Concave Surface (B8)	___ 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)
<b>Field Observations:</b> Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>4+''</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u>	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 99 → NORTH</u> <u>100 → NINE</u> <u>101 → NW</u>	



IC 7025A-SSI

WET

7/23/10

VEGETATION - Use scientific names of plants.

Sampling Point: SS-1

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>QUERCUS AMERICANA</i>	5	Y	FACW
2. <i>ACER RUBRUM</i>	10	Y	FAC
3.			
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)

3 = Total Cover

Sapling/Shrub Stratum (Plot size: 15' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>ALNUS RUGOSA</i>	30	Y	FACW
2. <i>FRAXINUS PENNSYLVANICA</i>	5	N	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 = \_\_\_\_\_

7 = Total Cover

Herb Stratum (Plot size: 5' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>IMPATIENS CAPENSIS</i>	35	Y	FACW
2. <i>CAREX CRINITA</i>	35	Y	OBL
3. <i>JUNCUS EGYPTIACUS</i>	5	N	FACW
4. <i>POA PALUSTRIS</i>	5	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 ≤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.

16 = Total Cover

Woody Vine Stratum (Plot size: Ø)	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.)

IC7025A-SS1

WET

7123110

SOIL

Sampling Point: SS-1

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	10YR 3/2							Silt w/ organics
10-15	2.5Y 3/1	95	2.5Y 6/1	5-10				SANDY CLAY loam
15-20	2.5Y 4/2							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: none

Depth (inches): N/A

Hydric Soil Present? Yes  No

Remarks:

NOTE: C-Lin- gradual transition for wet to up IN-SS.

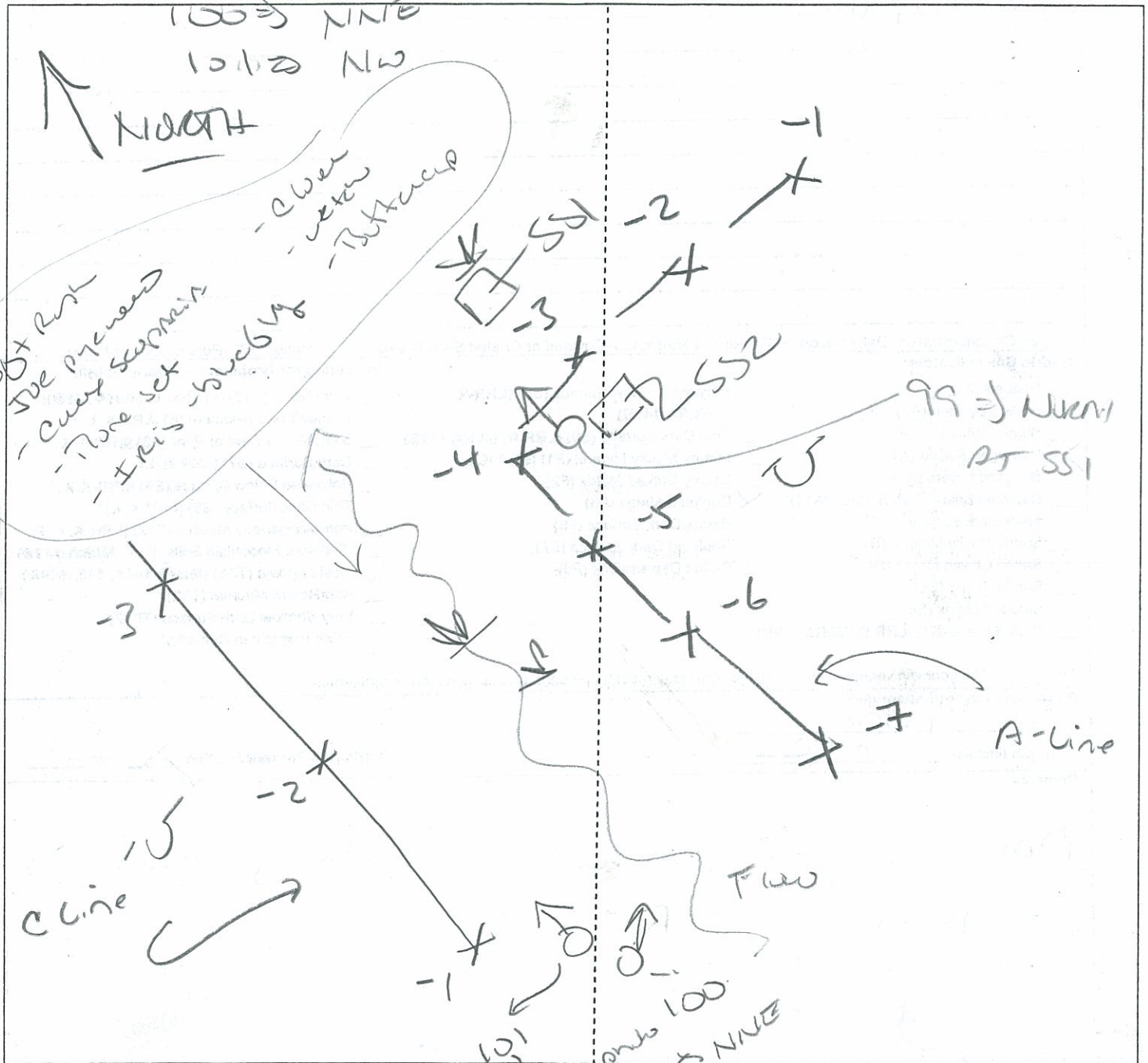
IC 7025A-SS1

WET

7/23/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 99 → NORTH	LOCATION:	



LEGEND

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

IC7025A-SS2

UP.

7123110

(WETLAND IC7025A(BIC))

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRWLF City/County: Clinton Sampling Date: 7123110  
 Applicant/Owner: MRB, LLC State: NY Sampling Point: SS-2  
 Investigator(s): DELAHUNTY Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Slight slope to west Local relief (concave, convex, none): none  
 Slope (%): 5% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: NIA  
 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>UPLAND ISLAND</u> <u>Active Cow PASTURE</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>		_____ Surface Soil Cracks (B6)	
_____ Surface Water (A1)	_____ Water-Stained Leaves (B9)	_____ Drainage Patterns (B10)	
_____ High Water Table (A2)	_____ Aquatic Fauna (B13)	_____ Moss Trim Lines (B16)	
_____ Saturation (A3)	_____ Marl Deposits (B15)	_____ Dry-Season Water Table (C2)	
_____ Water Marks (B1)	_____ Hydrogen Sulfide Odor (C1)	_____ Crayfish Burrows (C8)	
_____ Sediment Deposits (B2)	_____ Oxidized Rhizospheres on Living Roots (C3)	_____ Saturation Visible on Aerial Imagery (C9)	
_____ Drift Deposits (B3)	_____ Presence of Reduced Iron (C4)	_____ Stunted or Stressed Plants (D1)	
_____ Algal Mat or Crust (B4)	_____ Recent Iron Reduction in Tilled Soils (C6)	_____ Geomorphic Position (D2)	
_____ Iron Deposits (B5)	_____ Thin Muck Surface (C7)	_____ Shallow Aquitard (D3)	
_____ Inundation Visible on Aerial Imagery (B7)	_____ Other (Explain in Remarks)	_____ Microtopographic Relief (D4)	
_____ Sparsely Vegetated Concave Surface (B8)		_____ FAC-Neutral Test (D5)	
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>	
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)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: <u>Boys</u>			

JC7025A-SS2

upland

7/23/10

VEGETATION - Use scientific names of plants.

Sampling Point: SS-2

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. PYRUS MALUS	75	Y	UPL*
2.			
3.			
4.			
5.			
6.			
7.			

**Dominance Test worksheet:**

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

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

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

Sapling/Shrub Stratum (Plot size: 0)	Absolute % Cover	Dominant Species?	Indicator Status
1. N/A			
2.			
3.			
4.			
5.			
6.			
7.			

**Prevalence Index worksheet:**

Total % Cover of: 75 = Total Cover

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. RANUNCULUS ACRIS	10	N	FAC
2. FRAGARIA VIRGINIANA	10	N	FACU
3. PIANTAGO INCELEOLATA	15	N	UPL
4. TRIFOLIUM PRATENSE	70	Y	FACU
5. JUNCUS TENUIS	5	N	FAC
6. SOLIDAGO CANADENSIS	10	N	FACU
7. SPIRAEA LATIFOLIA	10	N	FAC
8. LEONTODON AUTUMNALIS	5	N	UPL*
9. PHLEUM PRATENSE	5	N	FACU
10. SOLIDAGO RUROSA	10	N	FAC
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: 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 X

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

UPL\* - not listed.

755-5207

up

7/23/10

SOIL

Sampling Point: SS-2

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	95	10YR 4/6	5			SANDY LOAM	
6-12	10YR 4/2		10YR 2/1				SANDY LOAM	
12-20	10YR 4/2						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

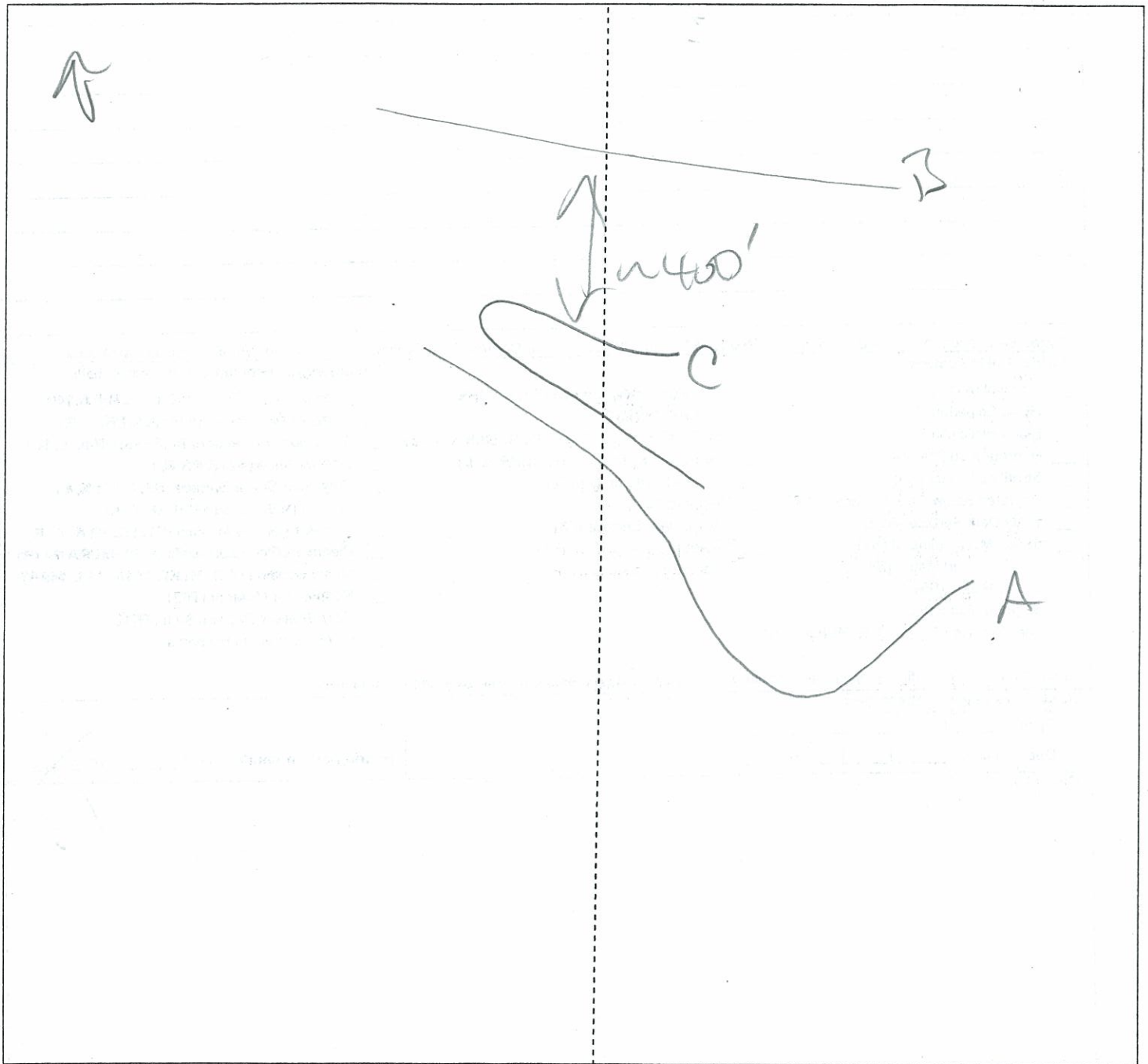
Remarks:

IC7025A-SS2 - Upland

7123110

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

IC 7026-SS1  
(A/B/C)

WETLAND

7/23/10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRFWF City/County: Clinton Sampling Date: 7/23/10  
 Applicant/Owner: MR, LLC State: NY Sampling Point: SS-1  
 Investigator(s): DELAHUNTY Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Slight slope to north Local relief (concave, convex, none): none  
 Slope (%): 4.5% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: DEW  
 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.)  
ACTIVE COW PASTURE  
DEEMED wet  
wet / up mix of plants

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	
<u>X</u> Surface Water (A1) <u>in drainage</u>	___ Surface Soil Cracks (B6)
<u>X</u> High Water Table (A2)	<u>X</u> Drainage Patterns (B10)
<u>X</u> Saturation (A3)	___ Moss Trim Lines (B16)
___ Water Marks (B1)	___ Dry-Season Water Table (C2)
___ Sediment Deposits (B2)	___ Crayfish Burrows (C8)
___ Drift Deposits (B3)	___ Saturation Visible on Aerial Imagery (C9)
___ Algal Mat or Crust (B4)	___ Stunted or Stressed Plants (D1)
___ Iron Deposits (B5)	___ Geomorphic Position (D2)
___ Inundation Visible on Aerial Imagery (B7)	___ Shallow Aquitard (D3)
___ Sparsely Vegetated Concave Surface (B8)	___ Microtopographic Relief (D4)
___ Water-Stained Leaves (B9)	___ FAC-Neutral Test (D5)
___ 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)	

Field Observations:  
 Surface Water Present? Yes X No \_\_\_\_\_ Depth (inches): 4" in places  
 Water Table Present? Yes X No \_\_\_\_\_ Depth (inches): 2"  
 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 102 Hydro flow south to north  
S from Aline unsaturated up  
103 w/bu Blinn



IC 7026-SS1  
(A, B, C)

7/23/10

Wetland

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

Sampling Point: SS-1

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.			
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>Juncus CANADENSIS</u>	<u>10</u>	<u>N</u>	<u>OBL</u>
2. <u>CAREX SCOPARIA</u>	<u>10</u>	<u>N</u>	<u>FACW</u>
3. <u>Juncus Elyosus</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>
4. <u>Polygonum hydropiperoides</u>	<u>5</u>	<u>N</u>	<u>OBL</u>
5. <u>CAREX vulpinioides</u>	<u>5</u>	<u>N</u>	<u>OBL</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: <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 X No \_\_\_\_\_

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

- Scattered Blue Glau Iris; wetter south of stone row.

- CAREX vulpinioides, Buttercup, white clover, plantain, Green Bullrush, soft Rush, CAREX SCOPARIA - Throughout wet meadow

IC7026-SS1  
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wetlands

7/23/10

**SOIL**

Sampling Point: SS-1

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 3/1						Silt & Organics	

<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): 5"

Hydric Soil Present? Yes  No

Remarks:

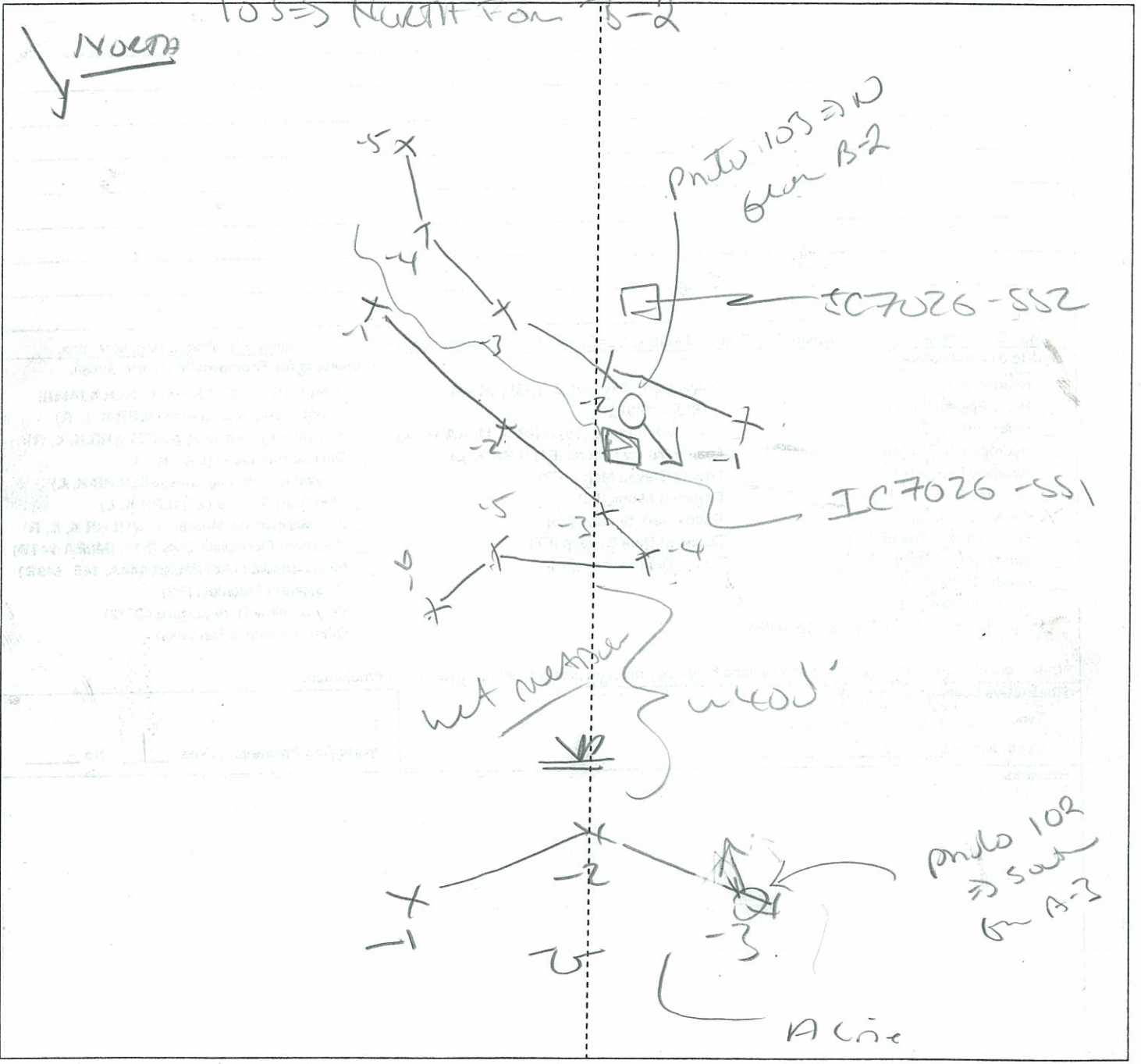
IC7026-SS1  
(A1D1C)

Wetland

7/23/10

SKETCH FORM

WETLAND ID/ROUTE ID:	PROJECT:	
INITIALS OF DELINEATORS:	DATE:	TIME:
PHOTO ID: 102 ⇒ South	LOCATION:	



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

IC 7026

SSZ

UP/AS

7/23/10

(A,B,C)

### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: MRLWF City/County: Clinton Sampling Date: 7/23/10  
 Applicant/Owner: MR, LLC State: NY Sampling Point: SS  
 Investigator(s): DELAHUNTY Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Slight slope to W Local relief (concave, convex, none): none  
 Slope (%): 50% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: \_\_\_\_\_

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.)	

#### 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"/> 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 <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Water Table Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: <u>None</u>		

IC7026-SS2  
CAIBIC

UPLAND

7/23/10

VEGETATION - Use scientific names of plants.

Sampling Point: SS-2

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: 1 (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 <u>1</u>	x 1 = <u>1</u>
FACW species <u>1</u>	x 2 = <u>2</u>
FAC species <u>3</u>	x 3 = <u>9</u>
FACU species <u>45</u>	x 4 = <u>180</u>
UPL species <u>5</u>	x 5 = <u>25</u>
Column Totals: <u>55</u> (A)	<u>220</u> (B)

Prevalence Index = B/A = 4.0

Herb Stratum (Plot size: <u>5'R</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>AMBROSIA ARTEMISIIFOLIA</u> <u>30</u> <u>Y</u> <u>FACW</u>			
2. <u>RANUNCULUS ACRIS</u> <u>5</u> <u>N</u> <u>FAC</u>			
3. <u>TRIFOLIUM REPENS</u> <u>5</u> <u>N</u> <u>FACW</u>			
4. <u>GRASS SP (GRAZED)</u> <u>40</u> <u>Y</u> <u>---</u>			
5. <u>TRIFOLIUM PRATENSE</u> <u>5</u> <u>N</u> <u>FACW</u>			
6. <u>PLANTAGO LANCEolata</u> <u>5</u> <u>N</u> <u>UPL</u>			
7. <u>PHLEUM PRATENSE</u> <u>5</u> <u>N</u> <u>FACW</u>			
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: <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.)

- Active cow pasture

- unid. grass sp not used in dominance test or prevalence index.

IC 7026-SSA  
(A1B1C)

UP1AAS

7/23/10

SOIL

Sampling Point: SS-2

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	10YR3/1						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: Clay  
Depth (inches): 26"

Hydric Soil Present? Yes  No

Remarks: