

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Dickerson Power Plant City/County: Montgomery Sampling Date: 2023-08-23
 Applicant/Owner: Soltesz State: Maryland Sampling Point: DP 2X
 Investigator(s): JF, RS Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): 6
 Subregion (LRR or MLRA): S 148 Lat: 39.2089262 Long: -77.44943138 Datum: NAD 83
 Soil Map Unit Name: 21C - Penn silt loam NWI classification: _____

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 _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: None of the three wetland parameters (i.e., wetland hydrology, hydrophytic vegetation, and hydric soils) were satisfied at this data point, which characterizes an herbaceous upland in the northeastern portion of the site.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ True Aquatic Plants (B14) _____ High Water Table (A2) _____ Hydrogen Sulfide Odor (C1) _____ Saturation (A3) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Water Marks (B1) _____ Presence of Reduced Iron (C4) _____ Sediment Deposits (B2) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Drift Deposits (B3) _____ Thin Muck Surface (C7) _____ Algal Mat or Crust (B4) _____ Other (Explain in Remarks) _____ Iron Deposits (B5) _____ Inundation Visible on Aerial Imagery (B7) _____ Water-Stained Leaves (B9) _____ Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Sparsely Vegetated Concave Surface (B8) _____ 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) <input checked="" type="checkbox"/> Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
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Field Observations: 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"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Exhibit 20(b)
OZAH Case No: CU 24-13

SOIL

Sampling Point: DP 2X

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 ¹	Loc ²		
0 - 10	5YR 3/2	99	7.5YR 4/6	1	C	M	Sandy Clay Loam	
10 - 18	7.5YR 3/2	98	7.5YR 4/4	2	C	M	Sandy Clay Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10) (LRR N)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)

- Dark Surface (S7)
- Polyvalue Below Surface (S8) (MLRA 147, 148)
- Thin Dark Surface (S9) (MLRA 147, 148)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Iron-Manganese Masses (F12) (LRR N, MLRA 136)
- Umbric Surface (F13) (MLRA 136, 122)
- Piedmont Floodplain Soils (F19) (MLRA 148)
- Red Parent Material (F21) (MLRA 127, 147)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (MLRA 147)
- Coast Prairie Redox (A16) (MLRA 147, 148)
- Piedmont Floodplain Soils (F19) (MLRA 136, 147)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: DP 2X

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>3x8 ft</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
_____ = Total Cover				
50% of total cover: _____				20% of total cover: _____
Sapling/Shrub Stratum (Plot size: <u>3x8 ft</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
_____ = Total Cover				
50% of total cover: _____				20% of total cover: _____
Herb Stratum (Plot size: <u>3x8 ft</u>)				
1.	<u>Microstegium vimineum</u>	<u>60</u>	<input checked="" type="checkbox"/>	<u>FAC</u>
2.	<u>Poa pratensis</u>	<u>15</u>		<u>FACU</u>
3.	<u>Persicaria hydropiperoides</u>	<u>10</u>		<u>OBL</u>
4.	<u>Tsuga canadensis</u>	<u>10</u>		<u>FACU</u>
5.	<u>Asclepias syriaca</u>	<u>2</u>		<u>FACU</u>
6.	<u>Senecio hieraciifolius</u>	<u>2</u>		<u>FACU</u>
7.	<u>Solanum carolinense</u>	<u>2</u>		<u>FACU</u>
8.				
9.				
10.				
11.				
_____ = Total Cover				
50% of total cover: <u>50.5</u>				20% of total cover: <u>20.2</u>
Woody Vine Stratum (Plot size: <u>3x8 ft</u>)				
1.	<u>Lonicera japonica</u>	<u>5</u>	<input checked="" type="checkbox"/>	<u>FACU</u>
2.				
3.				
4.				
5.				
_____ = Total Cover				
50% of total cover: <u>2.5</u>				20% of total cover: <u>1.0</u>
Dominance Test worksheet:				
Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)				
Total Number of Dominant Species Across All Strata: <u>2</u> (B)				
Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)				
Prevalence Index worksheet:				
Total % Cover of: _____ Multiply by: _____				
OBL species <u>10</u> x 1 = <u>10</u>				
FACW species <u>0</u> x 2 = <u>0</u>				
FAC species <u>60</u> x 3 = <u>180</u>				
FACU species <u>36</u> x 4 = <u>144</u>				
UPL species <u>0</u> x 5 = <u>0</u>				
Column Totals: <u>106</u> (A) <u>334</u> (B)				
Prevalence Index = B/A = <u>3.15</u>				
Hydrophytic Vegetation Indicators:				
<u> </u> 1 - Rapid Test for Hydrophytic Vegetation				
<u> </u> 2 - Dominance Test is >50%				
<u> </u> 3 - Prevalence Index is ≤3.0 ¹				
<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
<u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Definitions of Four Vegetation Strata:				
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
Woody vine – All woody vines greater than 3.28 ft in height.				
Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>				
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Dickerson Power Plant City/County: Montgomery Sampling Date: 2023-08-23
 Applicant/Owner: Soltsez State: Maryland Sampling Point: DP-3X
 Investigator(s): JF, RS Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): 2
 Subregion (LRR or MLRA): S 148 Lat: 39.21471805 Long: -77.44963433 Datum: NAD 83
 Soil Map Unit Name: 20C - Brentsville sandy loam NWI classification: _____

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 _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: None of the three wetland parameters (i.e., wetland hydrology, hydrophytic vegetation, and hydric soils) were satisfied at this data point, which characterizes a forested upland in the northern portion of the site.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ True Aquatic Plants (B14) _____ High Water Table (A2) _____ Hydrogen Sulfide Odor (C1) _____ Saturation (A3) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Water Marks (B1) _____ Presence of Reduced Iron (C4) _____ Sediment Deposits (B2) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Drift Deposits (B3) _____ Thin Muck Surface (C7) _____ Algal Mat or Crust (B4) _____ Other (Explain in Remarks) _____ Iron Deposits (B5) _____ _____ Inundation Visible on Aerial Imagery (B7) _____ _____ Water-Stained Leaves (B9) _____ _____ Aquatic Fauna (B13) _____	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Sparsely Vegetated Concave Surface (B8) _____ 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) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input checked="" type="checkbox"/> Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: 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 <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: DP-3X

	Absolute % Cover	Dominant Species?	Indicator Status		
Tree Stratum (Plot size: <u>3 x 30 ft r</u>)				Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
_____ = Total Cover					Total % Cover of: _____ Multiply by:
50% of total cover: _____ 20% of total cover: _____					OBL species <u>0</u> x 1 = <u>0</u>
_____ = Total Cover					FACW species <u>0</u> x 2 = <u>0</u>
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)				FAC species <u>1</u> x 3 = <u>3</u>	
1. <u>Elaeagnus umbellata</u>	<u>5</u>	<input checked="" type="checkbox"/>	<u>UPL</u>	FACU species <u>1</u> x 4 = <u>4</u>	
2. _____	_____	_____	_____	UPL species <u>5</u> x 5 = <u>25</u>	
3. _____	_____	_____	_____	Column Totals: <u>7</u> (A) <u>32</u> (B)	
4. _____	_____	_____	_____	Prevalence Index = B/A = <u>4.57</u>	
5. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
_____ = Total Cover				___ 1 - Rapid Test for Hydrophytic Vegetation	
50% of total cover: <u>2.5</u> 20% of total cover: <u>1.0</u>				___ 2 - Dominance Test is >50%	
Herb Stratum (Plot size: <u>5 ft r</u>)				___ 3 - Prevalence Index is ≤3.0 ¹	
1. <u>Acer rubrum</u>	<u>1</u>	_____	<u>FAC</u>	___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
2. <u>Perilla frutescens</u>	<u>1</u>	_____	<u>FACU</u>	___ Problematic Hydrophytic Vegetation ¹ (Explain)	
3. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
4. _____	_____	_____	_____	Definitions of Four Vegetation Strata:	
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
_____ = Total Cover				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
50% of total cover: <u>1.0</u> 20% of total cover: <u>0.4</u>				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
Woody Vine Stratum (Plot size: <u>30 ft r</u>)				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
1. _____	_____	_____	_____	Woody vine – All woody vines greater than 3.28 ft in height.	
2. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
_____ = Total Cover					
50% of total cover: _____ 20% of total cover: _____					
Remarks: (Include photo numbers here or on a separate sheet.)					
> 30%					

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Dickerson Power Plant City/County: Montgomery Sampling Date: 2023-09-06
 Applicant/Owner: Soltész State: Maryland Sampling Point: DP4
 Investigator(s): MF/HK Section, Township, Range: Dickerson
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 3
 Subregion (LRR or MLRA): S 148 Lat: 39.20545492 Long: -77.45823707 Datum: NAD 83
 Soil Map Unit Name: Brentsville sandy loam NWI classification: PFO

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 type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:
 All three wetland parameters (i.e., wetland hydrology, hydrophytic vegetation, and hydric soils) were satisfied at this data point, which characterizes a palustrine forested wetland in the southern portion of the study area.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <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 checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>10</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: DP4

	Absolute % Cover	Dominant Species?	Indicator Status																	
Tree Stratum (Plot size: <u>30 ft r</u>)																				
1. <u>Quercus palustris</u>	<u>15</u>	<input checked="" type="checkbox"/>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)																
2. <u>Acer rubrum</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>FAC</u>																	
3. <u>Liriodendron tulipifera</u>	<u>5</u>		<u>FACU</u>																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
<u>30</u> = Total Cover 50% of total cover: <u>15.00</u> 20% of total cover: <u>6.00</u>				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: right;">Total % Cover of:</td> <td style="width:50%; text-align: left;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>27</u></td> <td>x 2 = <u>54</u></td> </tr> <tr> <td>FAC species <u>17</u></td> <td>x 3 = <u>51</u></td> </tr> <tr> <td>FACU species <u>7</u></td> <td>x 4 = <u>28</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>51</u> (A)</td> <td><u>133</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.61</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>27</u>	x 2 = <u>54</u>	FAC species <u>17</u>	x 3 = <u>51</u>	FACU species <u>7</u>	x 4 = <u>28</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>51</u> (A)	<u>133</u> (B)	Prevalence Index = B/A = <u>2.61</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>27</u>	x 2 = <u>54</u>																			
FAC species <u>17</u>	x 3 = <u>51</u>																			
FACU species <u>7</u>	x 4 = <u>28</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>51</u> (A)	<u>133</u> (B)																			
Prevalence Index = B/A = <u>2.61</u>																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Quercus palustris</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>FACW</u>																	
2. <u>Acer rubrum</u>	<u>5</u>	<input checked="" type="checkbox"/>	<u>FAC</u>																	
3. <u>Elaeagnus umbellata</u>	<u>2</u>																			
4. <u>Juniperus virginiana</u>	<u>2</u>		<u>FACU</u>																	
5. <u>Quercus velutina</u>	<u>2</u>																			
6. _____																				
7. _____																				
8. _____																				
9. _____																				
<u>21</u> = Total Cover 50% of total cover: <u>10.50</u> 20% of total cover: <u>4.20</u>																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Agrostis capillaris</u>	<u>2</u>		<u>FAC</u>																	
2. <u>Phragmites australis</u>	<u>2</u>		<u>FACW</u>																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
<u>4</u> = Total Cover 50% of total cover: <u>2.00</u> 20% of total cover: <u>0.80</u>																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
<u>0</u> = Total Cover 50% of total cover: <u>0.00</u> 20% of total cover: <u>0.00</u>																				
Remarks: (Include photo numbers here or on a separate sheet.) 				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____																

SOIL

Sampling Point: DP4

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 ¹	Loc ²		
0 - 2								Duff
2 - 5	10YR 4/4	100					Sandy Loam	
5 - 8	7.5YR 4/3	95	7.5YR 5/8	5	C	M	Silt Loam	
8 - 16	10YR 4/1	90	7.5YR 4/4	10	C	M	Silty Clay	
-								
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10) (LRR N)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)

- Dark Surface (S7)
- Polyvalue Below Surface (S8) (MLRA 147, 148)
- Thin Dark Surface (S9) (MLRA 147, 148)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Iron-Manganese Masses (F12) (LRR N, MLRA 136)
- Umbric Surface (F13) (MLRA 136, 122)
- Piedmont Floodplain Soils (F19) (MLRA 148)
- Red Parent Material (F21) (MLRA 127, 147)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (MLRA 147)
- Coast Prairie Redox (A16) (MLRA 147, 148)
- Piedmont Floodplain Soils (F19) (MLRA 136, 147)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Dickerson Power Plant City/County: Montgomery Sampling Date: 2023-09-06
 Applicant/Owner: Soltesz State: Maryland Sampling Point: DP5
 Investigator(s): MF/MK Section, Township, Range: Dickerson
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 3
 Subregion (LRR or MLRA): S 148 Lat: 39.20532052 Long: -77.45842549 Datum: NAD 83
 Soil Map Unit Name: Brentsville sandy loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , 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 type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks:
 Only one (i.e., wetland hydrology, hydrophytic vegetation, and hydric soils) of the three wetland parameters was satisfied at this data point, which characterizes a forested upland in the southern portion of the study area.

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 Soil Cracks (B6)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<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 checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	

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

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: DP5

	Absolute % Cover	Dominant Species?	Indicator Status																																	
Tree Stratum (Plot size: <u>30 ft r</u>)																																				
1. <u>Quercus palustris</u>	<u>40</u>	<input checked="" type="checkbox"/>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.00</u> (A/B)																																
2. _____																																				
3. _____																																				
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
50% of total cover: <u>20.00</u>	<u>40</u> = Total Cover	<u>20%</u> of total cover:	<u>8.00</u>																																	
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																																				
1. <u>Acer rubrum</u>	<u>15</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	Prevalence Index worksheet: <table style="width:100%; border:none;"> <tr> <td style="text-align:right;">Total % Cover of:</td> <td style="text-align:center;"><u>0</u></td> <td style="text-align:right;">Multiply by:</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>OBL species</td> <td style="text-align:center;"><u>0</u></td> <td style="text-align:right;">x 1 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align:center;"><u>45</u></td> <td style="text-align:right;">x 2 =</td> <td style="text-align:center;"><u>90</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align:center;"><u>15</u></td> <td style="text-align:right;">x 3 =</td> <td style="text-align:center;"><u>45</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align:center;"><u>32</u></td> <td style="text-align:right;">x 4 =</td> <td style="text-align:center;"><u>128</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align:center;"><u>0</u></td> <td style="text-align:right;">x 5 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align:center;"><u>92</u> (A)</td> <td></td> <td style="text-align:center;"><u>263</u> (B)</td> </tr> <tr> <td colspan="4" style="text-align:center;">Prevalence Index = B/A = <u>2.86</u></td> </tr> </table>	Total % Cover of:	<u>0</u>	Multiply by:	<u>0</u>	OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>45</u>	x 2 =	<u>90</u>	FAC species	<u>15</u>	x 3 =	<u>45</u>	FACU species	<u>32</u>	x 4 =	<u>128</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>92</u> (A)		<u>263</u> (B)	Prevalence Index = B/A = <u>2.86</u>			
Total % Cover of:	<u>0</u>	Multiply by:	<u>0</u>																																	
OBL species	<u>0</u>	x 1 =	<u>0</u>																																	
FACW species	<u>45</u>	x 2 =	<u>90</u>																																	
FAC species	<u>15</u>	x 3 =	<u>45</u>																																	
FACU species	<u>32</u>	x 4 =	<u>128</u>																																	
UPL species	<u>0</u>	x 5 =	<u>0</u>																																	
Column Totals:	<u>92</u> (A)		<u>263</u> (B)																																	
Prevalence Index = B/A = <u>2.86</u>																																				
2. <u>Juniperus virginiana</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>FACU</u>																																	
3. <u>Pinus virginiana</u>	<u>2</u>																																			
4. <u>Sassafras albidum</u>	<u>2</u>		<u>FACU</u>																																	
5. _____																																				
6. _____																																				
7. _____																																				
8. _____																																				
9. _____																																				
50% of total cover: <u>14.50</u>	<u>29</u> = Total Cover	<u>20%</u> of total cover:	<u>5.80</u>																																	
Herb Stratum (Plot size: <u>5 ft r</u>)																																				
1. <u>Lolium perenne</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)																																
2. <u>Phragmites australis</u>	<u>5</u>	<input checked="" type="checkbox"/>	<u>FACW</u>																																	
3. _____																																				
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
8. _____																																				
9. _____																																				
10. _____																																				
11. _____																																				
50% of total cover: <u>12.50</u>	<u>25</u> = Total Cover	<u>20%</u> of total cover:	<u>5.00</u>																																	
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																																				
1. _____				Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.																																
2. _____																																				
3. _____																																				
4. _____																																				
5. _____																																				
50% of total cover: <u>0.00</u>	<u>0</u> = Total Cover	<u>20%</u> of total cover:	<u>0.00</u>																																	
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																				
Remarks: (Include photo numbers here or on a separate sheet.)																																				

SOIL

Sampling Point: DP5

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 ¹	Loc ²		
0 - 2	10YR 5/6	100					Silt Loam	
2 - 8	10YR 4/4	70	10YR 5/6	30	C	M	Silt Loam	
8 - 15	10YR 4/4	90	10YR 5/6	10	C	M	Silt Loam	
15 - 17	7.5YR 5/3	70	7.5YR 5/6	20	C	M	Silty Clay Loam	
15 - 17			10YR 5/1	10	D	M	Silty Clay Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10) (LRR N)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)

- Dark Surface (S7)
- Polyvalue Below Surface (S8) (MLRA 147, 148)
- Thin Dark Surface (S9) (MLRA 147, 148)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Iron-Manganese Masses (F12) (LRR N, MLRA 136)
- Umbric Surface (F13) (MLRA 136, 122)
- Piedmont Floodplain Soils (F19) (MLRA 148)
- Red Parent Material (F21) (MLRA 127, 147)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (MLRA 147)
- Coast Prairie Redox (A16) (MLRA 147, 148)
- Piedmont Floodplain Soils (F19) (MLRA 136, 147)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Dickerson Power Plant City/County: Montgomery Sampling Date: 2023-09-06
 Applicant/Owner: Soltesz State: Maryland Sampling Point: DP6
 Investigator(s): MF/MK Section, Township, Range: Dickerson
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Concave Slope (%): 3
 Subregion (LRR or MLRA): S 148 Lat: 39.20771582 Long: -77.45621116 Datum: NAD 83
 Soil Map Unit Name: Brentsville sandy loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , 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 type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks:
 Only two (i.e., wetland hydrology, hydrophytic vegetation, and hydric soils) of the three wetland parameters were satisfied at this data point, which characterizes a forested upland in the southeastern portion of the study area.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<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"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> True Aquatic Plants (B14)	
<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:	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>14</u> (includes capillary fringe)	

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

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: DP6

	Absolute % Cover	Dominant Species?	Indicator Status															
Tree Stratum (Plot size: <u>30 ft r</u>)																		
1. <u>Prunus serotina</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.00</u> (A/B)														
2. <u>Diospyros virginiana</u>	<u>5</u>	<input checked="" type="checkbox"/>	<u>FAC</u>															
3. _____	_____	<input type="checkbox"/>	_____															
4. _____	_____	<input type="checkbox"/>	_____															
5. _____	_____	<input type="checkbox"/>	_____															
6. _____	_____	<input type="checkbox"/>	_____															
7. _____	_____	<input type="checkbox"/>	_____															
_____	_____	<input type="checkbox"/>	_____															
15 = Total Cover 50% of total cover: <u>7.50</u> 20% of total cover: <u>3.00</u>				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: right;">Total % Cover of:</td> <td style="width:50%; text-align: left;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>72</u></td> <td>x 2 = <u>144</u></td> </tr> <tr> <td>FAC species <u>60</u></td> <td>x 3 = <u>180</u></td> </tr> <tr> <td>FACU species <u>47</u></td> <td>x 4 = <u>188</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>179</u> (A)</td> <td><u>512</u> (B)</td> </tr> </table> <p style="text-align: center;">Prevalence Index = B/A = <u>2.86</u></p>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>72</u>	x 2 = <u>144</u>	FAC species <u>60</u>	x 3 = <u>180</u>	FACU species <u>47</u>	x 4 = <u>188</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>179</u> (A)	<u>512</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>72</u>	x 2 = <u>144</u>																	
FAC species <u>60</u>	x 3 = <u>180</u>																	
FACU species <u>47</u>	x 4 = <u>188</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>179</u> (A)	<u>512</u> (B)																	
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																		
1. <u>Diospyros virginiana</u>	<u>35</u>	<input checked="" type="checkbox"/>	<u>FAC</u>															
2. <u>Prunus serotina</u>	<u>15</u>	<input checked="" type="checkbox"/>	<u>FACU</u>															
3. <u>Juniperus virginiana</u>	<u>10</u>	<input type="checkbox"/>	<u>FACU</u>															
4. <u>Elaeagnus umbellata</u>	<u>5</u>	<input type="checkbox"/>	_____															
5. _____	_____	<input type="checkbox"/>	_____															
6. _____	_____	<input type="checkbox"/>	_____															
7. _____	_____	<input type="checkbox"/>	_____															
8. _____	_____	<input type="checkbox"/>	_____															
9. _____	_____	<input type="checkbox"/>	_____															
65 = Total Cover 50% of total cover: <u>32.50</u> 20% of total cover: <u>13.00</u>																		
Herb Stratum (Plot size: <u>5 ft r</u>)																		
1. <u>Phragmites australis</u>	<u>65</u>	<input checked="" type="checkbox"/>	<u>FACW</u>															
2. <u>Microstegium vimineum</u>	<u>15</u>	<input type="checkbox"/>	<u>FAC</u>															
3. <u>Potentilla indica</u>	<u>10</u>	<input type="checkbox"/>	<u>FACU</u>															
4. <u>Acer rubrum</u>	<u>5</u>	<input type="checkbox"/>	<u>FAC</u>															
5. <u>Juncus effusus</u>	<u>5</u>	<input type="checkbox"/>	<u>FACW</u>															
6. <u>Boehmeria cylindrica</u>	<u>2</u>	<input type="checkbox"/>	<u>FACW</u>															
7. <u>Parthenocissus quinquefolia</u>	<u>2</u>	<input type="checkbox"/>	<u>FACU</u>															
8. _____	_____	<input type="checkbox"/>	_____															
9. _____	_____	<input type="checkbox"/>	_____															
10. _____	_____	<input type="checkbox"/>	_____															
11. _____	_____	<input type="checkbox"/>	_____															
104 = Total Cover 50% of total cover: <u>52.00</u> 20% of total cover: <u>20.80</u>																		
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																		
1. _____	_____	<input type="checkbox"/>	_____															
2. _____	_____	<input type="checkbox"/>	_____															
3. _____	_____	<input type="checkbox"/>	_____															
4. _____	_____	<input type="checkbox"/>	_____															
5. _____	_____	<input type="checkbox"/>	_____															
0 = Total Cover 50% of total cover: <u>0.00</u> 20% of total cover: <u>0.00</u>																		
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____																		
Remarks: (Include photo numbers here or on a separate sheet.)																		

SOIL

Sampling Point: DP6

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 ¹	Loc ²		
0 - 11	7.5YR 4/4	90	5YR 5/8	10	C	M	Loam	
11 - 16	10G 4/1	90	7.5YR 4/4	10	C	M	Silt Loam	
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
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¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> 2 cm Muck (A10) (MLRA 147)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147, 148)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)	<input type="checkbox"/> (MLRA 147, 148)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Piedmont Floodplain Soils (F19)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> (MLRA 136, 147)	
<input type="checkbox"/> 2 cm Muck (A10) (LRR N)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)		
<input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)		
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)		
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)		

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

EXHIBIT 8

EXHIBIT 08
SITE PHOTOGRAPHS
DICKERSON POWER PLANT
WSSI #MD2258.01



1. View of soil profile at Data Point 1 (08/23/23).



2. View of vegetation at Data Point 1 (08/23/23).

EXHIBIT 08
SITE PHOTOGRAPHS
DICKERSON POWER PLANT
WSSI #MD2258.01



3. View of soil profile at Data Point 2 (08/23/23).

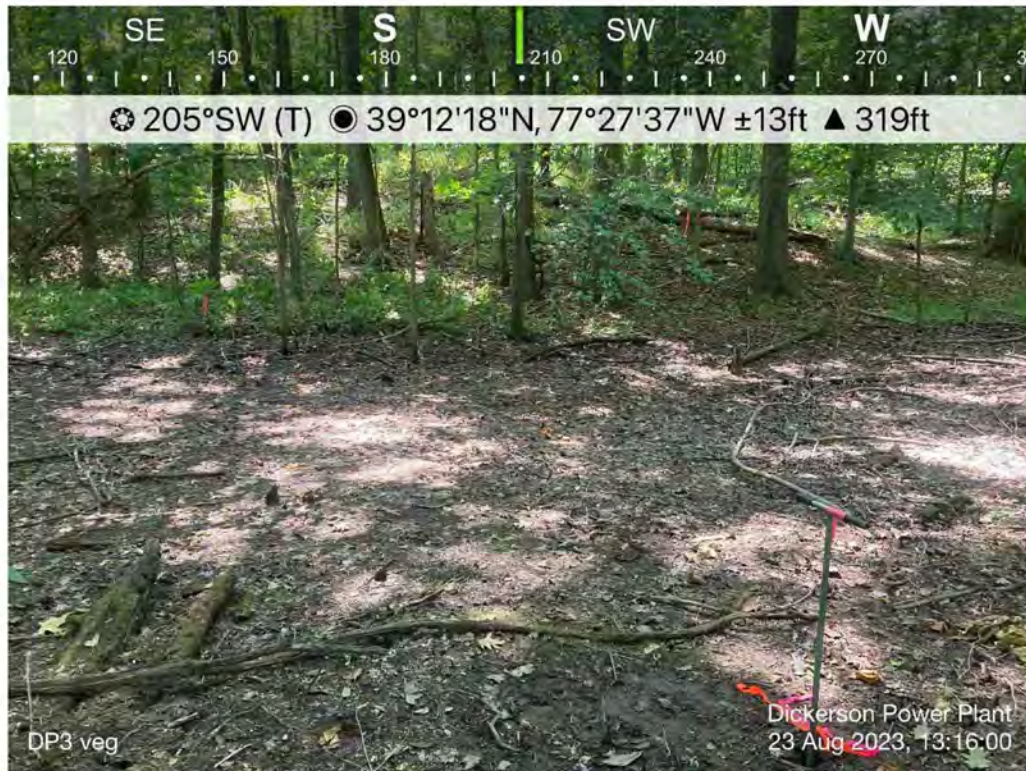


4. View of vegetation at Data Point 2 (08/23/23).

EXHIBIT 08
SITE PHOTOGRAPHS
DICKERSON POWER PLANT
WSSI #MD2258.01

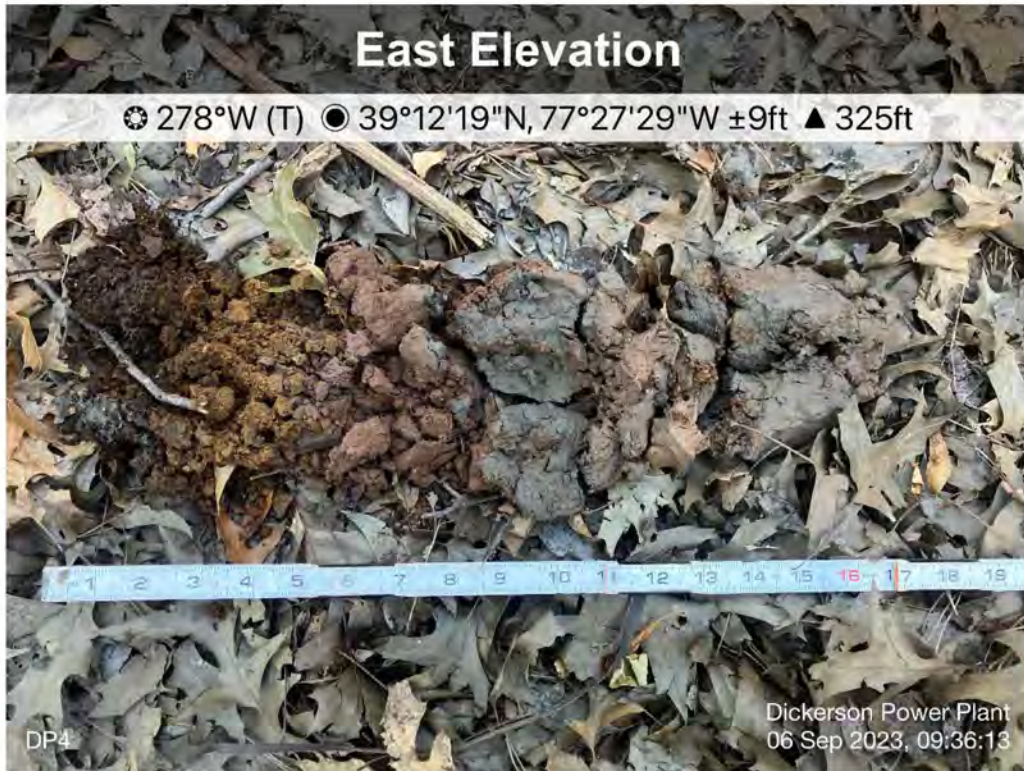


5. View of soil profile at Data Point 3 (08/23/23).

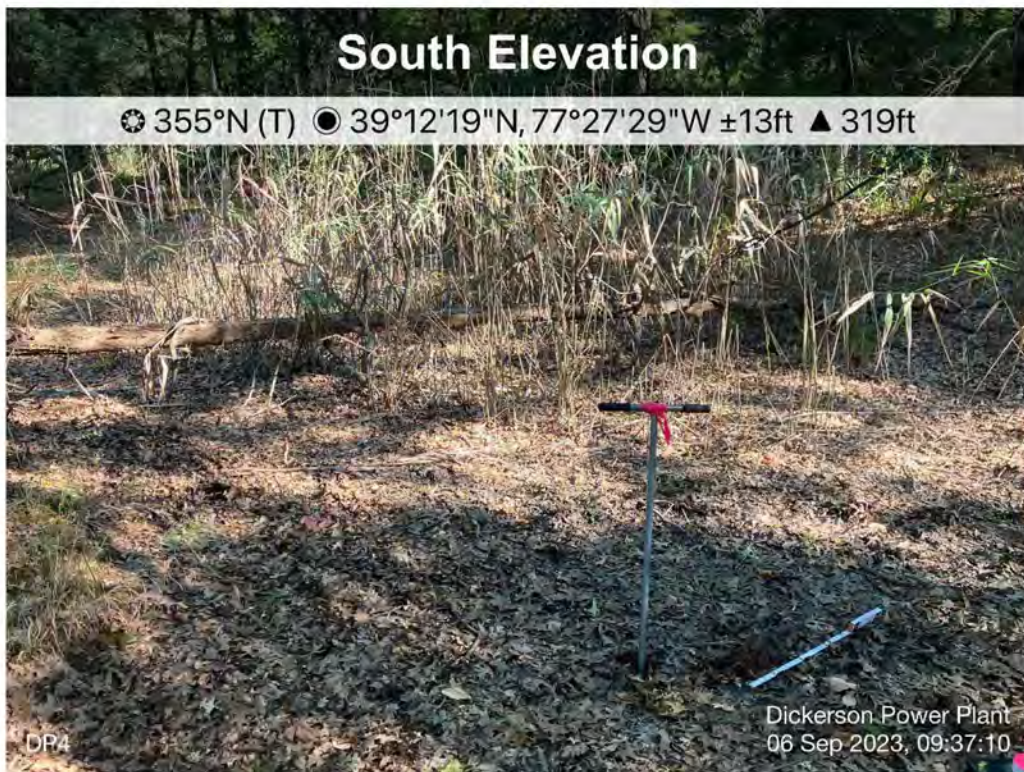


6. View of vegetation at Data Point 3 (08/23/23).

EXHIBIT 08
SITE PHOTOGRAPHS
DICKERSON POWER PLANT
WSSI #MD2258.01



7. View of soil profile at Data Point 4 (09/06/23).



8. View of vegetation at Data Point 4 (09/06/23).

EXHIBIT 08
SITE PHOTOGRAPHS
DICKERSON POWER PLANT
WSSI #MD2258.01



9. View of soil profile at Data Point 5 (09/06/23).



10. View of vegetation at Data Point 5 (09/06/23).

EXHIBIT 08
SITE PHOTOGRAPHS
DICKERSON POWER PLANT
WSSI #MD2258.01



11. View of soil profile at Data Point 6 (09/06/23).



12. View of vegetation at Data Point 6 (09/06/23).

EXHIBIT 08
SITE PHOTOGRAPHS
DICKERSON POWER PLANT
WSSI #MD2258.01



13. View of concrete-lined stormwater management basin (08/23/23).



14. View of perennial stream channel located in the northwestern portion of the site (08/23/23).

EXHIBIT 08
SITE PHOTOGRAPHS
DICKERSON POWER PLANT
WSSI #MD2258.01



15. View of man-made, in-line pond near flag L-21 (08/23/23).



16. View of man-made, power plant water storage pond at flag M-29 (08/23/23).

EXHIBIT 08
SITE PHOTOGRAPHS
DICKERSON POWER PLANT
WSSI #MD2258.01



17. View of lower man-made, power plant water storage pond at flag S5 (08/23/23).



18. View of man-made concrete lined water storage pond – not flagged (08/23/23).

EXHIBIT 08
SITE PHOTOGRAPHS
DICKERSON POWER PLANT
WSSI #MD2258.01



19. View of off-line, man-made stormwater management pond with rip-rap outfall (08/23/23).



20. Downslope view of palustrine forested wetland near flag O32 (08/23/23).

EXHIBIT 08
SITE PHOTOGRAPHS
DICKERSON POWER PLANT
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21. View of man-made stormwater management pond in the central, eastern portion of the site (08/23/23).



22. View of typical concrete-lined ditch in the central portion of the site (08/23/23).

EXHIBIT 08
SITE PHOTOGRAPHS
DICKERSON POWER PLANT
WSSI #MD2258.01



23. View of palustrine emergent wetland (R flag series) in the southern portion of the site (08/23/23).