

Appendix B DATA FORMS

B.1 WETLAND DETERMINATION FORMS

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Project Klondike City/County: Miami County Sampling Date: 10/23/2024
 Applicant/Owner: Confidential Client State: OH Sampling Point: SP01
 Investigator(s): SPBS Section, Township, Range: S30, T006N, R006E
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 1
 Subregion (LRR or MLRA): LRR M, MLRA Lat: 40.112971 Long: -84.24784 Datum: WGS84
 Soil Map Unit Name: Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes NWI classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation X, Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Rutted up path from tires		W02

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species	Indicator Status	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>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B)
1. <u>Asimina triloba</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Acer rubrum</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Acer saccharum</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet: Total % Cover of: <u>80</u> Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
<u>80</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. <u>Asimina triloba</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</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) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>10</u> = Total Cover				
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <u>Persicaria hydropiperoides</u>	<u>25</u>	<u>Yes</u>	<u>OBL</u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>25</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>0</u> = Total Cover				

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

SOIL

Sampling Point: SP01

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth (inches)		Matrix		Redox Features							
		Color (moist)		%	Color (moist)		%	Type ¹	Loc ²	Texture	Remarks
0-21		10YR	3/1	87	10YR	4/6	13	C	M	Clay Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.											
Hydric Soil Indicators:						Indicators for Problematic Hydric Soils³:					
☐ Histosol (A1)				☐ Sandy Gleyed Matrix (S4)				☐ Coast Prairie Redox (A16)			
☐ Histic Epipedon (A2)				☐ Sandy Redox (S5)				☐ Iron-Manganese Masses (F12)			
☐ Black Histic (A3)				☐ Stripped Matrix (S6)				☐ Red Parent Material (F21)			
☐ Hydrogen Sulfide (A4)				☐ Dark Surface (S7)				☐ Very Shallow Dark Surface (F22)			
☐ Stratified Layers (A5)				☐ Loamy Mucky Mineral (F1)				☐ Other (Explain in Remarks)			
☐ 2 cm Muck (A10)				☐ Loamy Gleyed Matrix (F2)							
☐ Depleted Below Dark Surface (A11)				☐ Depleted Matrix (F3)							
☐ Thick Dark Surface (A12)				☒ Redox Dark Surface (F6)							
☐ Sandy Mucky Mineral (S1)				☐ Depleted Dark Surface (F7)							
☐ 5 cm Mucky Peat or Peat (S3)				☐ Redox Depressions (F8)							
Restrictive Layer (if observed):											
Type: <u>N/A</u>											
Depth (inches): <u>N/A</u>						Hydric Soil Present? Yes ☒ No ☐					
Remarks:											
HYDROLOGY											
Wetland Hydrology Indicators:						<u>Secondary Indicators (minimum of two required)</u>					
<u>Primary Indicators (minimum of one is required; check all that apply)</u>											
☐ Surface Water (A1)				☒ Water-Stained Leaves (B9)				☐ Surface Soil Cracks (B6)			
☐ High Water Table (A2)				☐ Aquatic Fauna (B13)				☐ Drainage Patterns (B10)			
☒ Saturation (A3)				☐ True Aquatic Plants (B14)				☐ 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)				☐ FAC-Neutral Test (D5)			
☐ Inundation Visible on Aerial Imagery (B7)				☐ Gauge or Well Data (D9)							
☐ Sparsely Vegetated Concave Surface (B8)				☐ Other (Explain in Remarks)							
Field Observations:											
Surface Water Present		Yes ☐	No ☒	Depth (inches): <u> </u>							
Water Table Present		Yes ☐	No ☒	Depth (inches): <u> </u>							
Saturation Present (includes capillary fringe)		Yes ☒	No ☐	Depth (inches): <u> 0 </u>		Wetland Hydrology Present? Yes ☒ No ☐					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks:											

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Project Klondike City/County: Miami County Sampling Date: 10/23/2024
 Applicant/Owner: Confidential Client State: OH Sampling Point: SP02
 Investigator(s): SPBS Section, Township, Range: S30, T006N, R006E
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Linear Slope %: 0
 Subregion (LRR or MLRA): LRR M, MLRA Lat: 40.112865 Long: -84.247784 Datum: WGS84
 Soil Map Unit Name: Brookston silty clay loam, fine texture, 0 to 2 percent slopes NWI classification: N/A

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

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

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

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species	Indicator Status	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>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)
1. <u>Acer rubrum</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Asimina triloba</u>	<u>35</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Acer saccharum</u>	<u>10</u>	<u>No</u>	<u>FACU</u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>85</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
1. <u>Asimina triloba</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Lonicera maackii</u>	<u>15</u>	<u>Yes</u>	<u>UPL</u>	
3. <u>Acer rubrum</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>40</u> = Total Cover				
Herb Stratum (Plot size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</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.
1. <u>Glechoma hederacea</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Parthenocissus inserta</u>	<u>10</u>	<u>No</u>	<u>FACU</u>	
3. <u>Asimina triloba</u>	<u>10</u>	<u>No</u>	<u>FAC</u>	
4. <u>Phytolacca americana</u>	<u>10</u>	<u>No</u>	<u>FACU</u>	
5. <u>Smilax hispida</u>	<u>10</u>	<u>No</u>	<u>FAC</u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>55</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>0</u> = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)
 45% bare ground

SOIL

Sampling Point: SP02

[illegible]

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Project Klondike City/County: Miami County Sampling Date: 10/23/2024
 Applicant/Owner: Confidential Client State: OH Sampling Point: SP03
 Investigator(s): SHBS Section, Township, Range: S31, T006N, R006E
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 1
 Subregion (LRR or MLRA): LRR M, MLRA Lat: 40.109854 Long: -84.246334 Datum: WGS84
 Soil Map Unit Name: Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes NWI classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>		
Remarks: (Explain alternative procedures here or in a separate report.) W01			

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size: <u>30 ft</u>	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1.					
2.					
3.					
4.					
5.					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
		<u>0</u>	= Total Cover		
Sapling/Shrub Stratum	Plot size: <u>15 ft</u>				
1.					
2.					
3.					
4.					
5.					
		<u>0</u>	= Total Cover		Hydrophytic Vegetation Indicators: <u>X</u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</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) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum	Plot size: <u>5 ft</u>				
1.	<u>Phalaris arundinacea</u>	<u>65</u>	<u>Yes</u>	<u>FACW</u>	
2.	<u>Leersia oryzoides</u>	<u>25</u>	<u>Yes</u>	<u>OBL</u>	
3.	<u>Typha angustifolia</u>	<u>10</u>	<u>No</u>	<u>OBL</u>	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
		<u>100</u>	= Total Cover		
Woody Vine Stratum	Plot size: <u>30 ft</u>				
1.					
2.					
		<u>0</u>	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

Sampling Point: SP03

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			
0-5	10YR	3/1	90	10YR	5/6	10	C	M	Clay Loam		
5-10	10YR	3/1	65	10YR	5/6	35	C	M	Clay Loam		
10-21	10YR	5/6	80	10YR	4/6	20	C	M	Clay Loam	Mixed fill	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.											
Hydric Soil Indicators:						Indicators for Problematic Hydric Soils³:					
☐ Histosol (A1)			☐ Sandy Gleyed Matrix (S4)			☐ Coast Prairie Redox (A16)					
☐ Histic Epipedon (A2)			☐ Sandy Redox (S5)			☐ Iron-Manganese Masses (F12)					
☐ Black Histic (A3)			☐ Stripped Matrix (S6)			☐ Red Parent Material (F21)					
☐ Hydrogen Sulfide (A4)			☐ Dark Surface (S7)			☐ Very Shallow Dark Surface (F22)					
☐ Stratified Layers (A5)			☐ Loamy Mucky Mineral (F1)			☐ Other (Explain in Remarks)					
☐ 2 cm Muck (A10)			☐ Loamy Gleyed Matrix (F2)								
☐ Depleted Below Dark Surface (A11)			☐ Depleted Matrix (F3)								
☐ Thick Dark Surface (A12)			☒ Redox Dark Surface (F6)								
☐ Sandy Mucky Mineral (S1)			☐ Depleted Dark Surface (F7)								
☐ 5 cm Mucky Peat or Peat (S3)			☐ Redox Depressions (F8)								
Restrictive Layer (if observed):											
Type: <u> N/A </u>											
Depth (inches): <u> N/A </u>						Hydric Soil Present? Yes <u> X </u> No <u> </u>					
Remarks:											
HYDROLOGY											
Wetland Hydrology Indicators:						<u>Secondary Indicators (minimum of two required)</u>					
<u>Primary Indicators (minimum of one is required; check all that apply)</u>											
☐ Surface Water (A1)			☒ Water-Stained Leaves (B9)			☒ Surface Soil Cracks (B6)					
☐ High Water Table (A2)			☐ Aquatic Fauna (B13)			☐ Drainage Patterns (B10)					
☐ Saturation (A3)			☐ True Aquatic Plants (B14)			☐ 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)			☐ FAC-Neutral Test (D5)					
☐ Inundation Visible on Aerial Imagery (B7)			☐ Gauge or Well Data (D9)								
☐ Sparsely Vegetated Concave Surface (B8)			☐ Other (Explain in Remarks)								
Field Observations:											
Surface Water Present		Yes ☐	No ☒	Depth (inches): <u> </u>							
Water Table Present		Yes ☐	No ☒	Depth (inches): <u> </u>							
Saturation Present (includes capillary fringe)		Yes ☐	No ☒	Depth (inches): <u> </u>		Wetland Hydrology Present? Yes <u> X </u> No <u> </u>					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks:											

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Project Klondike City/County: Miami County Sampling Date: 10/23/2024
 Applicant/Owner: Confidential Client State: OH Sampling Point: SP04
 Investigator(s): SPBS Section, Township, Range: S31, T006N, R006E
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Linear Slope %: 0
 Subregion (LRR or MLRA): LRR M, MLRA Lat: 40.10988 Long: -84.246301 Datum: WGS84
 Soil Map Unit Name: Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes NWI classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

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

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size: <u>30 ft</u>	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1.					
2.					
3.					
4.					
5.					
		<u>0</u>	= Total Cover		Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum	Plot size: <u>15 ft</u>				
1.					
2.					
3.					
4.					
5.					
		<u>0</u>	= Total Cover		
Herb Stratum	Plot size: <u>5 ft</u>				Hydrophytic Vegetation Indicators: - <u>1</u> - Rapid Test for Hydrophytic Vegetation X <u>2</u> - Dominance Test is >50% - <u>3</u> - Prevalence Index is ≤3.0 ¹ - <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) - <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Poa pratensis</u>	<u>65</u>	<u>Yes</u>	<u>FAC</u>	
2.	<u>Phalaris arundinacea</u>	<u>40</u>	<u>Yes</u>	<u>FACW</u>	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
		<u>105</u>	= Total Cover		
Woody Vine Stratum	Plot size: <u>30 ft</u>				
1.					
2.					
		<u>0</u>	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

Sampling Point: SP04

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			
0-21	10YR 3/3	100					Clay Loam		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.									
Hydric Soil Indicators:					Indicators for Problematic Hydric Soils³:				
☐ Histosol (A1)					☐ Sandy Gleyed Matrix (S4)				
☐ Histic Epipedon (A2)					☐ Sandy Redox (S5)				
☐ Black Histic (A3)					☐ Stripped Matrix (S6)				
☐ Hydrogen Sulfide (A4)					☐ Dark Surface (S7)				
☐ Stratified Layers (A5)					☐ Loamy Mucky Mineral (F1)				
☐ 2 cm Muck (A10)					☐ Loamy Gleyed Matrix (F2)				
☐ Depleted Below Dark Surface (A11)					☐ Depleted Matrix (F3)				
☐ Thick Dark Surface (A12)					☐ Redox Dark Surface (F6)				
☐ Sandy Mucky Mineral (S1)					☐ Depleted Dark Surface (F7)				
☐ 5 cm Mucky Peat or Peat (S3)					☐ Redox Depressions (F8)				
Restrictive Layer (if observed):									
Type: <u>N/A</u>									
Depth (inches): <u>N/A</u>							Hydric Soil Present? Yes ☐ No ☒		
Remarks:									
HYDROLOGY									
Wetland Hydrology Indicators:					<u>Secondary Indicators (minimum of two required)</u>				
<u>Primary Indicators (minimum of one is required; check all that apply)</u>									
☐ Surface Water (A1)					☐ Water-Stained Leaves (B9)				
☐ High Water Table (A2)					☐ Aquatic Fauna (B13)				
☐ Saturation (A3)					☐ True Aquatic Plants (B14)				
☐ Water Marks (B1)					☐ Hydrogen Sulfide Odor (C1)				
☐ Sediment Deposits (B2)					☐ Oxidized Rhizospheres on Living Roots (C3)				
☐ Drift Deposits (B3)					☐ Presence of Reduced Iron (C4)				
☐ Algal Mat or Crust (B4)					☐ Recent Iron Reduction in Tilled Soils (C6)				
☐ Iron Deposits (B5)					☐ Thin Muck Surface (C7)				
☐ Inundation Visible on Aerial Imagery (B7)					☐ Gauge or Well Data (D9)				
☐ Sparsely Vegetated Concave Surface (B8)					☐ Other (Explain in Remarks)				
Field Observations:									
Surface Water Present Yes ☐ No ☒ Depth (inches): <u> </u>									
Water Table Present Yes ☐ No ☒ Depth (inches): <u> </u>									
Saturation Present Yes ☐ No ☒ Depth (inches): <u> </u> (includes capillary fringe)							Wetland Hydrology Present? Yes ☐ No ☒		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Remarks:									

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Project Klondike City/County: Miami County Sampling Date: 10/23/2024
 Applicant/Owner: Confidential Client State: OH Sampling Point: SP05
 Investigator(s): SPBS Section, Township, Range: S31, T006N, R006E
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 0.5
 Subregion (LRR or MLRA): LRR M, MLRA Lat: 40.110946 Long: -84.25159 Datum: WGS84
 Soil Map Unit Name: Crosby silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes NWI classification: R4SBC
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

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

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
<u>0</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)	Absolute % Cover	Dominant Species	Indicator Status	
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5 ft</u>)	Absolute % Cover	Dominant Species	Indicator Status	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</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) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Setaria pumila</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Setaria glauca</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Phleum pratense</u>	<u>20</u>	<u>No</u>	<u>FACU</u>	
4. <u>Dactylis glomerata</u>	<u>20</u>	<u>No</u>	<u>FACU</u>	
5. <u>Poa pratensis</u>	<u>20</u>	<u>No</u>	<u>FAC</u>	
6. <u>Daucus carota</u>	<u>5</u>	<u>No</u>	<u>UPL</u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>125</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species	Indicator Status	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>0</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: SP05

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		
0-21	10YR	3/2	100					Clay Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.						² Location: PL=Pore Lining, M=Matrix.			
Hydric Soil Indicators:					Indicators for Problematic Hydric Soils ³ :				
☐ Histosol (A1)			☐ Sandy Gleyed Matrix (S4)			☐ Coast Prairie Redox (A16)			
☐ Histic Epipedon (A2)			☐ Sandy Redox (S5)			☐ Iron-Manganese Masses (F12)			
☐ Black Histic (A3)			☐ Stripped Matrix (S6)			☐ Red Parent Material (F21)			
☐ Hydrogen Sulfide (A4)			☐ Dark Surface (S7)			☐ Very Shallow Dark Surface (F22)			
☐ Stratified Layers (A5)			☐ Loamy Mucky Mineral (F1)			☐ Other (Explain in Remarks)			
☐ 2 cm Muck (A10)			☐ Loamy Gleyed Matrix (F2)						
☐ Depleted Below Dark Surface (A11)			☐ Depleted Matrix (F3)						
☐ Thick Dark Surface (A12)			☐ Redox Dark Surface (F6)						
☐ Sandy Mucky Mineral (S1)			☐ Depleted Dark Surface (F7)						
☐ 5 cm Mucky Peat or Peat (S3)			☐ Redox Depressions (F8)						
Restrictive Layer (if observed):									
Type: N/A									
Depth (inches): N/A					Hydric Soil Present? Yes No X				
Remarks:									
HYDROLOGY									
Wetland Hydrology Indicators:					Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)									
☐ Surface Water (A1)			☐ Water-Stained Leaves (B9)			☐ Surface Soil Cracks (B6)			
☐ High Water Table (A2)			☐ Aquatic Fauna (B13)			☐ Drainage Patterns (B10)			
☐ Saturation (A3)			☐ True Aquatic Plants (B14)			☐ 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)			☐ FAC-Neutral Test (D5)			
☐ Inundation Visible on Aerial Imagery (B7)			☐ Gauge or Well Data (D9)						
☐ Sparsely Vegetated Concave Surface (B8)			☐ Other (Explain in Remarks)						
Field Observations:									
Surface Water Present		Yes	No	X	Depth (inches):				
Water Table Present		Yes	No	X	Depth (inches):				
Saturation Present		Yes	No	X	Depth (inches):				
(includes capillary fringe)					Wetland Hydrology Present? Yes No X				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Remarks:									

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Project Klondike City/County: Miami County Sampling Date: 10/23/2024
 Applicant/Owner: Confidential Client State: OH Sampling Point: SP06
 Investigator(s): SPBS Section, Township, Range: S29, T006N, R006E
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 1
 Subregion (LRR or MLRA): LRR M, MLRA Lat: 40.11715 Long: -84.238651 Datum: WGS84
 Soil Map Unit Name: Pits, quarry NWI classification: PFO1C
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) W03		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</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>100</u> (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: - <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) - Problematic Hydrophytic Vegetation ¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u>Celtis occidentalis</u>	<u>25</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Acer saccharinum</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Populus deltoides</u>	<u>15</u>	<u>No</u>	<u>FAC</u>	
4. <u>Fraxinus pennsylvanica</u>	<u>10</u>	<u>No</u>	<u>FACW</u>	
5. <u>Platanus occidentalis</u>	<u>10</u>	<u>No</u>	<u>FACW</u>	
<u>90</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <u>Symphytotrichum lateriflorum</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Persicaria hydropiperoides</u>	<u>20</u>	<u>Yes</u>	<u>OBL</u>	
3. <u>Cinna arundinacea</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>55</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)
45% bare ground

SOIL

Sampling Point: SP06

[illegible]

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Project Klondike City/County: Miami County Sampling Date: 10/23/2024
 Applicant/Owner: Confidential Client State: OH Sampling Point: SP07
 Investigator(s): SPBS Section, Township, Range: S29, T006N, R006E
 Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Convex Slope %: 2
 Subregion (LRR or MLRA): LRR M, MLRA Lat: 40.117165 Long: -84.238466 Datum: WGS84
 Soil Map Unit Name: Pits, quarry NWI classification: PFO1C

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

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

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

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species	Indicator Status	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>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>17</u> (A/B)
1. <u>Juglans nigra</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Celtis occidentalis</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Acer saccharum</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>60</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>45</u> x 4 = <u>180</u> UPL species <u>80</u> x 5 = <u>400</u> Column Totals: <u>145</u> (A) <u>640</u> (B) Prevalence Index = B/A = <u>4.41</u>
1. <u>Lonicera maackii</u>	<u>65</u>	<u>Yes</u>	<u>UPL</u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>65</u> = Total Cover				
Herb Stratum (Plot size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators: - <u>1</u> - Rapid Test for Hydrophytic Vegetation - <u>2</u> - Dominance Test is >50% - <u>3</u> - Prevalence Index is ≤3.0 ¹ - <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) - <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Lonicera maackii</u>	<u>15</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Parthenocissus inserta</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>20</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>0</u> = Total Cover				

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

SOIL

Sampling Point: SP07

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	10YR	3/3		100			Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

- ☐ Histosol (A1) ☐ Sandy Gleyed Matrix (S4)
☐ Histic Epipedon (A2) ☐ Sandy Redox (S5)
☐ Black Histic (A3) ☐ Stripped Matrix (S6)
☐ Hydrogen Sulfide (A4) ☐ Dark Surface (S7)
☐ Stratified Layers (A5) ☐ Loamy Mucky Mineral (F1)
☐ 2 cm Muck (A10) ☐ Loamy Gleyed Matrix (F2)
☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3)
☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6)
☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7)
☐ 5 cm Mucky Peat or Peat (S3) ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

Restrictive Layer (if observed):Type: RockDepth (inches): 10**Hydric Soil Present?** Yes ☐ No ☒

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1) ☐ Water-Stained Leaves (B9)
☐ High Water Table (A2) ☐ Aquatic Fauna (B13)
☐ Saturation (A3) ☐ True Aquatic Plants (B14)
☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1)
☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4)
☐ Algal Mat or Crust (B4) ☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Iron Deposits (B5) ☐ Thin Muck Surface (C7)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Gauge or Well Data (D9)
☐ Sparsely Vegetated Concave Surface (B8) ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present Yes ☐ No ☒ Depth (inches):
 Water Table Present Yes ☐ No ☒ Depth (inches):
 Saturation Present Yes ☐ No ☒ Depth (inches):
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

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

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Project Klondike City/County: Miami County Sampling Date: 10/23/2024
 Applicant/Owner: Confidential Client State: OH Sampling Point: SP08
 Investigator(s): SPBS Section, Township, Range: S29, T006N, R006E
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 1
 Subregion (LRR or MLRA): LRR M, MLRA Lat: 40.117823 Long: -84.238782 Datum: WGS84
 Soil Map Unit Name: Pits, quarry NWI classification: PFO1C

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

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>		
Remarks: (Explain alternative procedures here or in a separate report.) W04			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species	Indicator Status	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>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>Platanus occidentalis</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
<u>20</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Indicators: <u>X</u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</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)
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5 ft</u>)				
1. <u>Glyceria striata</u>	<u>20</u>	<u>Yes</u>	<u>OBL</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Impatiens capensis</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>35</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
Woody Vine Stratum (Plot size: <u>30 ft</u>)				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>0</u> = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)
65% bare ground

SOIL

Sampling Point: SP08

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				
0-15	10YR	2/1	92	10YR	4/6	8	C	M	Mucky Loam			
15-21	10YR	2/1	85	10YR	4/6	15	C	M	Mucky Loam			
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.												
Hydric Soil Indicators:							Indicators for Problematic Hydric Soils³:					
☐ Histosol (A1)			☐ Sandy Gleyed Matrix (S4)			☐ Coast Prairie Redox (A16)						
☐ Histic Epipedon (A2)			☐ Sandy Redox (S5)			☐ Iron-Manganese Masses (F12)						
☐ Black Histic (A3)			☐ Stripped Matrix (S6)			☐ Red Parent Material (F21)						
☒ Hydrogen Sulfide (A4)			☐ Dark Surface (S7)			☐ Very Shallow Dark Surface (F22)						
☐ Stratified Layers (A5)			☐ Loamy Mucky Mineral (F1)			☐ Other (Explain in Remarks)						
☐ 2 cm Muck (A10)			☐ Loamy Gleyed Matrix (F2)									
☐ Depleted Below Dark Surface (A11)			☐ Depleted Matrix (F3)									
☐ Thick Dark Surface (A12)			☒ Redox Dark Surface (F6)									
☐ Sandy Mucky Mineral (S1)			☐ Depleted Dark Surface (F7)									
☐ 5 cm Mucky Peat or Peat (S3)			☐ Redox Depressions (F8)									
Restrictive Layer (if observed):												
Type: <u>NA</u>												
Depth (inches): _____							Hydric Soil Present? Yes ☒ No ☐					
Remarks:												
HYDROLOGY												
Wetland Hydrology Indicators:							<u>Secondary Indicators (minimum of two required)</u>					
<u>Primary Indicators (minimum of one is required; check all that apply)</u>												
☒ Surface Water (A1)			☒ Water-Stained Leaves (B9)			☒ Surface Soil Cracks (B6)						
☐ High Water Table (A2)			☐ Aquatic Fauna (B13)			☐ Drainage Patterns (B10)						
☒ Saturation (A3)			☐ True Aquatic Plants (B14)			☐ 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)			☒ FAC-Neutral Test (D5)						
☐ Inundation Visible on Aerial Imagery (B7)			☐ Gauge or Well Data (D9)									
☒ Sparsely Vegetated Concave Surface (B8)			☐ Other (Explain in Remarks)									
Field Observations:												
Surface Water Present		Yes ☒	No ☐	Depth (inches): <u> 1 </u>								
Water Table Present		Yes ☒	No ☐	Depth (inches): <u> 16 </u>								
Saturation Present (includes capillary fringe)		Yes ☒	No ☐	Depth (inches): <u> 0 </u>								
Wetland Hydrology Present?							Yes ☒ No ☐					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks:												

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Project Klondike City/County: Miami County Sampling Date: 10/23/2024
 Applicant/Owner: Confidential Client State: OH Sampling Point: SP09
 Investigator(s): SPBS Section, Township, Range: S29, T006N, R006E
 Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Convex Slope %: 1
 Subregion (LRR or MLRA): LRR M, MLRA Lat: 40.117664 Long: -84.238788 Datum: WGS84
 Soil Map Unit Name: Pits, quarry NWI classification: PFO1C

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

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

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

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species	Indicator Status	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>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>Celtis occidentalis</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Platanus occidentalis</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Populus deltoides</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>65</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)				Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>48</u> x 3 = <u>144</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>65</u> x 5 = <u>325</u> Column Totals: <u>138</u> (A) <u>529</u> (B) Prevalence Index = B/A = <u>3.83</u>
1. <u>Lonicera maackii</u>	<u>55</u>	<u>Yes</u>	<u>UPL</u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>55</u> = Total Cover				
Herb Stratum (Plot size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators: - <u>1</u> - Rapid Test for Hydrophytic Vegetation - <u>2</u> - Dominance Test is >50% - <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Lonicera maackii</u>	<u>10</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Parthenocissus inserta</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Viola sororia</u>	<u>3</u>	<u>No</u>	<u>FAC</u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>18</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30 ft</u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>0</u> = Total Cover				

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

SOIL

Sampling Point: SP09

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (inches)	Matrix			Redox Features						
	Color (moist)		%	Color (moist)		%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR	3/2	100						Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					² Location: PL=Pore Lining, M=Matrix.					
Hydric Soil Indicators:					Indicators for Problematic Hydric Soils ³ :					
☐ Histosol (A1)					☐ Sandy Gleyed Matrix (S4)					
☐ Histic Epipedon (A2)					☐ Sandy Redox (S5)					
☐ Black Histic (A3)					☐ Stripped Matrix (S6)					
☐ Hydrogen Sulfide (A4)					☐ Dark Surface (S7)					
☐ Stratified Layers (A5)					☐ Loamy Mucky Mineral (F1)					
☐ 2 cm Muck (A10)					☐ Loamy Gleyed Matrix (F2)					
☐ Depleted Below Dark Surface (A11)					☐ Depleted Matrix (F3)					
☐ Thick Dark Surface (A12)					☐ Redox Dark Surface (F6)					
☐ Sandy Mucky Mineral (S1)					☐ Depleted Dark Surface (F7)					
☐ 5 cm Mucky Peat or Peat (S3)					☐ Redox Depressions (F8)					
Restrictive Layer (if observed):										
Type: <u>Rock</u>										
Depth (inches): <u>9</u>					Hydric Soil Present? Yes ☐ No ☒					
Remarks:										
HYDROLOGY										
Wetland Hydrology Indicators:					Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)										
☐ Surface Water (A1)					☐ Surface Soil Cracks (B6)					
☐ High Water Table (A2)					☐ Drainage Patterns (B10)					
☐ Saturation (A3)					☐ Dry-Season Water Table (C2)					
☐ Water Marks (B1)					☐ Crayfish Burrows (C8)					
☐ Sediment Deposits (B2)					☐ Saturation Visible on Aerial Imagery (C9)					
☐ Drift Deposits (B3)					☐ Stunted or Stressed Plants (D1)					
☐ Algal Mat or Crust (B4)					☐ Geomorphic Position (D2)					
☐ Iron Deposits (B5)					☐ FAC-Neutral Test (D5)					
☐ Inundation Visible on Aerial Imagery (B7)										
☐ Sparsely Vegetated Concave Surface (B8)										
☐ Water-Stained Leaves (B9)										
☐ Aquatic Fauna (B13)										
☐ True Aquatic Plants (B14)										
☐ 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)										
☐ Gauge or Well Data (D9)										
☐ Other (Explain in Remarks)										
Field Observations:										
Surface Water Present Yes ☐ No ☒ Depth (inches): <u> </u>										
Water Table Present Yes ☐ No ☒ Depth (inches): <u> </u>										
Saturation Present Yes ☐ No ☒ Depth (inches): <u> </u> (includes capillary fringe)					Wetland Hydrology Present? Yes ☐ No ☒					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks:										