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# Wetlands and Other Waters Delineation Report

Prepared for:

Tetra Tech
2 Lan Drive, Suite 210
Westford, Massachusetts 01886

for the

South Field Energy Interconnection Facilities
Madison and Yellow Creek Townships,
Columbiana County, Ohio

Prepared by:



5070 Stow Rd. Stow, OH 44224 800-940-4025 www.EnviroScienceInc.com

Project No. 7480 Date: December 22, 2015

## STATEMENT OF CERTIFICATION

The analyses, opinions and conclusions in this report are based entirely on EnviroScience's unbiased, professional judgment. EnviroScience's compensation is not in any way contingent on any action or event resulting from this study. Neither EnviroScience nor any EnviroScience employee has any vested interest in the property examined in this study.



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#### **EXECUTIVE SUMMARY**

EnviroScience, Inc. performed a delineation of wetlands and other waters in April 2015 and November 2015 for Tetra Tech at the South Field Energy Interconnection Facilities project located in Madison and Yellow Creek Townships, Columbiana County, Ohio. The project area consists of an approximately 38 acre proposed switchyard location with an access drive, a preferred route (along approximately 18,120 feet of proposed utility easement), and an alternate route (along approximately 17,900 feet of proposed utility easement). The total area surveyed for the South Field Energy interconnection project is 240.6 acres. The switchyard is located north of Osborne Road, east of McCormick Run Road, and west of Sines Road. The proposed easements for the preferred and alternate routes are the similar at the eastern and western extents, but they diverge in the center. Both routes start at the proposed switchyard and end east of Hibbetts Mill Road.

Twenty-three (23) wetlands were identified and delineated within the entire project area and account for 3.674 acres. Eleven (11) ephemeral streams, twelve (12) intermittent streams, and two (2) USGS-named perennial streams (Alder Lick Run and Bailey Run) were identified and delineated onsite, accounting for a total of 5,952 linear feet (0.504 acres). Four (4) open water aquatic resources were identified within the project area accounting for an additional 0.470 acres within the project area. The project area consists of maintained lawn, agricultural field, open field, old field, scrub/shrub, and forested vegetation. The surrounding land use consists of agricultural and forested communities, with scattered rural residential properties. Eight (8) distinct vegetative communities were identified within the project area including two (2) wetland community types. The onsite wetland communities include palustrine emergent and palustrine forested vegetative communities.

Wetlands and waterbodies are under the jurisdiction of the Ohio EPA or U.S. Army Corps of Engineers (USACE). No filling may occur within these areas without their written permission. Please contact the Ohio EPA Division of Surface Water at (614) 644-2001 or the Pittsburgh District, U.S. Army Corps of Engineers, at (412) 395-7155 before working in these areas.



#### 1.0 INTRODUCTION AND SITE DESCRIPTION

EnviroScience, Inc. performed a delineation of wetlands and other waters in April 2015 and November 2015 for Tetra Tech at the South Field Energy Interconnection Facilities project located in Madison and Yellow Creek Townships, Columbiana County, Ohio. The project area consists of an approximately 38 acre proposed switchyard location with an access drive, a preferred route (along approximately 18,120 feet of proposed utility easement), and an alternate route (along approximately 17,900 feet of proposed utility easement). The total area surveyed for the South Field Energy interconnection project is 240.6 acres. The switchyard is located north of Osborne Road, east of McCormick Run Road, and west of Sines Road. The proposed easements for the preferred and alternate routes are the similar at the eastern and western extents, but they diverge in the center. Both routes start at the proposed switchyard and end east of Hibbetts Mill Road.

Eight (8) distinct vegetative communities were identified within the project area, including two (2) wetland community types. The project area exists rural residential, agricultural, field, and forested communities. The surrounding area exists as forest and agricultural land with rural residential properties. The project area crosses twenty-three (23) wetlands, eleven (11) ephemeral streams, twelve (12) intermittent streams, two (2) USGS-named perennial streams, and four (4) open water ponds. The onsite open water ponds are located within areas of steep relief that are depicted as strip mines. These areas are no longer active strip mines.

The project area is located in the upper Ohio River drainage basin (Hydrologic #05030101) which drains approximately 640 square miles in northeast Ohio. It is within the Western Allegheny Plateau ecoregion (Woods *et al.* 1998) of Ohio. The project area is located within the area covered by the Eastern Mountains and Piedmont Supplement (USACE 2012) and associated plant list (Lichvar *et al.* 2014). The project area is regulated by the USACE Pittsburgh District.

#### 2.0 METHODS

Government agencies regulate coastal and inland waters for commerce, flood control, and water quality. These water bodies provide numerous functions and values necessary to protect and sustain our quality of life. Wetlands comprise a significant portion of regulated waters. The USACE and U.S. Environmental Protection Agency (USEPA) jointly define wetlands as:

"Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."



The remaining deepwater aquatic habitats (open waters) are defined by the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) as:

". . . areas that are permanently inundated at mean annual water depths >6.6 ft or permanently inundated areas <6.6 ft in depth that do not support rooted emergent or woody plant species."

The methods used for determining and delineating wetlands and open waters strictly adhere to those found in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountain and Piedmont Region* (USACE 2012). Wetlands and open water boundaries were determined by the disappearance of one or more of their diagnostic characteristics.

Ordinary high water marks (OHWM) defined the outermost regulatory boundaries of ephemeral and open waters.

Each sample plot and the perimeter of each wetland and other water was surveyed and marked in the field with plain pink flags and pink "wetland boundary" flags, respectively. A global positioning system (GPS) unit with submeter accuracy was used, in conjunction with aerial photography and topographic figures, for the survey. Computer Aided Design (CAD) software was used to determine wetland dimensions and Geographic Information Systems (GIS) software was used to produce a map of the project area showing wetlands and other waters.

#### 2.1 WETLANDS

## 2.1.1 Determination

A review of secondary literature sources was performed to find known wetlands and other significant ecological resources and areas with high potential for wetlands in or near the proposed project area. Resources include the following:

- 1. U.S. Geological Survey (USGS) topographic maps;
- National Wetlands Inventory (NWI) maps;
- 3. Web Soil Survey; and
- 4. Aerial Photographs.

A field inspection of the project area was then completed to identify major plant communities and to visually locate potential wetlands. The routine, onsite (Level 2) wetland determination was used to perform the delineation. Wetland communities were classified according to the classification scheme of Cowardin *et al.* (1979) (Table 1). Mature non-wetland communities that had reached a stable equilibrium were classified



according to Anderson (1982) and Gordon (1966, 1969). Disturbed and successional non-wetland communities were classified as one of the categories described in Table 2.

Table 1. Wetland Communities (Cowardin et al. 1979).

•	
Description	
Palustrine Emergent	
Palustrine Scrub-Shrub	
Palustrine Forested	
Palustrine Open Water	
	Palustrine Emergent Palustrine Scrub-Shrub Palustrine Forested

Table 2. Disturbed and Successional Non-Wetland Communities.

C	ommunity	Description
2	Urban	regularly maintained land; residential; industrial
Disturbed	Agricultural	land used for producing crops or raising livestock; cropland; pastureland
Dis.	Cleared	disturbed areas devoid of most vegetation from recent clearing, grading or filling
	Open Field	herbaceous community without woody vegetation
onaî	Old Field	herbaceous community having woody vegetation coverage of <50%
Successional	Scrub- Shrub	community dominated by woody vegetation <6 m (20 ft) tall
<u>«</u>	community dominated by woody vegetation >6 m (20 ft) tall	

Sample plots were established within each natural community and potential wetland within the project area. Complete data for each sample plot were collected and recorded on the USACE's Routine Wetland Determination Data Forms contained in the applicable USACE Regional Supplement (USACE 2012). Vegetation, hydrology and soils were evaluated at each sample plot.

### 2.1.1.1 Vegetation

To detect the presence or absence of hydrophytic vegetation, four plant strata were evaluated within specific radii of the plot center. Each stratum was ranked by aerial cover in descending order of abundance. Table 3 provides information on each vegetative stratum.



Table 3. Vegetative Strata.

Stratum	Definition	Survey Area
Tree	woody plants > or equal to 3 in. (7.6 cm) diameter at breast height (dbh), regardless of height	30 ft (9.1 m) radius
Sapling/shrub	woody plants <3 in. (7.6 cm) dbh and ≥3.28 ft (1 m) tall	15 ft (4.6 m) radius
Herbaceous	herbs and woody plants less than 3.28 ft (1 m) in height	5 ft (1.5 m) radius
Woody vines	woody vines >3.28 ft (1 m) in height	30 ft (9.1 m) radius

Percent dominance was obtained for each species and within each stratum. Dominant species are those which cumulatively totaled in order of abundance immediately exceed 50% and also include any individual species with an abundance of 20% or more (USACE 2012). Dominant taxa were identified using recognized local guides: nomenclature follows the *National List of Scientific Plant Names* (USDA 1982). Following the identification of each plant species present within the plot, all dominant species within each stratum were assigned a wetland indicator status according to Lichvar (2014). Indicators are summarized in Table 4.

Table 4. Plant Indicators.

Indicator	Category	Definition
OBL	Obligate Wetland	almost exclusively (>99% of occurrences) found in wetlands
FACW	Facultative Wetland	most likely found in wetlands (67-99% of occurrences)
FAC	Facultative	equally likely found in wetlands or non- wetlands (34-66%)
FACU	Facultative Upland	most likely found in non-wetlands (1-33% occurrence in wetlands)
UPL	Obligate Upland	almost exclusively found in non-wetlands (<1% occurrence in wetlands)

An 'NI' (no indicator) designation represents species where not enough information is available to assign an indicator; an 'NL' (no listing) designation is given to species whose identification was not determined sufficiently enough to assign an indicator. Once the indicator status is assigned to each dominant species, the evaluator can perform the percent dominance test according to the protocol outlined within the applicable Regional Supplement (USACE 2012) to determine if the plot meets the criterion for hydrophytic vegetation.

## 2.1.1.2 Hydrology

To detect the presence or absence of wetland hydrology, surface and subsurface hydrologic indicators were evaluated at the sample plot and throughout the adjacent community. Primary sources of wetland hydrology include direct precipitation, headwater flooding, backwater flooding, groundwater or any combination of these. When obtaining data at each sample plot, the evaluator observes evidence of hydrology. Primary indicators of hydrology (only one of these is necessary to indicate sufficient wetland hydrology) include the presence of surface water, water marks, sediment deposits, drift deposits, etc. (USACE 2012). Secondary indicators of hydrology (which requires two or more at each sample plot) include surface soil cracks, drainage patterns, crayfish burrows, etc. (USACE 2012).

#### 2.1.1.3 Soils

The upper horizons of the soil at each sample plot were examined to detect the presence or absence of hydric soils indicators. Current USACE guidance requires the evaluator to assess the upper 20 inches of soil for hydric soil characteristics. Most indicators of hydric soils require an assessment of soil matrix color and mottle characteristics (Environmental Laboratory 1987, USACE 2012) for each horizon. These characteristics were determined by comparing a moist sample with *Munsell Soil Color Chart* (Munsell Color 2009) or *The Globe Soil Color Book* (Visual Color Systems 2004).

## 2.1.2 ORAM Categorization

Each wetland system was categorized in accordance with version 5.0 of the Ohio EPA's Ohio Rapid Assessment Method for Wetlands (ORAM) (Mack 2000, 2001). Field scoring forms are contained in Appendix D.

Ohio EPA has established three primary and three intermediate categories of wetland quality which are based on a wetland's size, its hydrologic function, the types of plant communities present, the physical structure of the wetland plant community and the wetland's level of disturbance (OAC 3745-1-54). The relationship between the various wetland categories and their respective ORAM scores is presented in Table 5. EnviroScience also evaluated the project area for the presence of state threatened and endangered species as part of the ORAM evaluation.



Table 5. ORAM Scores and Categories.

ORAM Score	ORAM Category	Description
0-29.9	Category 1	Lowest quality, and are generally characterized by hydrological isolation, lack of plant species diversity, insufficient habitat availability, and limited potential to perform major wetland functions.
30-34.9	Category 1 or 2 (Gray Zone)	ORAM score is insufficient to categorize wetland. In absence of a nonrapid method such as VIBI, assign the wetland to the higher functional category (Category 2)
35-44 9	Modified Category 2	Category 2 wetlands that may be of lower quality or degraded but have reasonable potential to be restored.
45-59.9	Category 2	Wetlands that have the capability to support a moderate wildlife community or maintain mid-level hydrological functions
60-64.9	Category 2 or 3 (Gray Zone)	ORAM score is insufficient to categorize wetland. In absence of a nonrapid method such as VIBI, assign the wetland to the higher functional category (Category 3)
65-100	Category 3	Highest quality, generally characterized by a high level of biological diversity and topographical variation, threatened or endangered species, large numbers of native species, or a high level of functional importance to its surroundings.

Category 3 wetlands have the highest quality, and are generally characterized by a high level of biological diversity and topographical variation, large numbers of native species, or a high level of functional importance to its surroundings. Category 2 wetlands have the capability to support a moderate wildlife community or maintain mid-level hydrological functions. Category 2 also includes wetlands that may be of lower quality or degraded but have reasonable potential to be restored (Modified Category 2). Category 1 wetlands are of the lowest quality, and are generally characterized by hydrological isolation, lack of plant species diversity, insufficient habitat availability, and limited potential to perform major wetland functions (OAC 3745-1-54).

Since the ORAM is a rapid assessment method, there are certain wetland scores which fail to clearly differentiate the wetland's functional category. The so-called "gray zone" wetlands fall between the definite scoring breaks between the categories. Ohio EPA requires that "gray zone" wetlands be considered as the higher category unless more detailed functional assessments such as the VIBI or AmphIBI are conducted on those wetlands. As a result of this requirement, wetlands whose scores fall between the breakpoints for Categories 1 and 2 (1 or 2 gray zone wetlands) wetlands will be considered as Category 2 wetland for purposes of this report. Wetlands whose scores fall between the breakpoints for Categories 2 and 3 wetlands (2 or 3 gray zone wetlands) will be considered a Category 3 wetland for purposes of this report.



#### 2.1.3 Cowardin Wetland Classification

The U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory uses the Classification of Wetlands and Deepwater Habitats of the United States to classify wetland habitat types (Cowardin et al. 1979). This classification system is hierarchical and defines five major systems – Marine, Estuarine, Riverine, Lacustrine, and Palustrine. The Palustrine system was the only type of wetland system identified within the project area and is defined as including all nontidal wetlands dominated by trees, shrubs, persistent emergents, emergent mosses or lichens, and all such wetlands that occur in tidal areas where salinity due to ocean driven-derived salts is below 0.5 percent (Cowardin et al. 1979).

#### 2.2 OTHER WATERS

Other waters include ephemeral and open waters. These waters are broken down into two categories: 1) ponds and lakes; and 2) streams and rivers.

#### 2.2.1 Ponds and Lakes

Palustrine systems other than wetlands, and lacustrine waters are addressed as ponds and lakes, respectively. These non-linear open waters may harbor important aquatic communities such as vegetated shallows (aquatic bed) and mud flats. They are classified according to Cowardin *et al.* (1979).

#### 2.2.2 Streams and Rivers

Riverine systems are linear flowing waters bounded by a channel. Cowardin *et al.* (1979) divides these system into four groups, however, for the purpose of this report streams are placed into three regulatory types, listed below.

Ephemeral: An ephemeral stream only conveys runoff precipitation and meltwater. It is permanently located above the water table and is most often dry.

Intermittent: An intermittent stream is located below the water table for parts of the year, but does have dry periods.

Perennial: A perennial stream typically has flowing water throughout the entire year.

In addition to flow characteristics, the USACE has defined other regulatory categories that apply to streams, which are listed below (USACE and USEPA, 2007).



- <u>Traditional Navigable Waters (TNW)</u>: all waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide.
- Relatively Permanent Waters (RPW): non-navigable tributaries of traditional navigable waters that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically three months).
- Non-Relatively Permanent Waters (Non-RPW): non-navigable tributaries of traditional navigable waters that are not relatively permanent where the tributaries typically do not have continuous flow at least seasonally (e.g., typically three months).

The Corps and USEPA will assert jurisdiction under the Clean Water Act on Traditional Navigable Waters (TNWs) and all wetlands adjacent to them, non-navigable tributaries of TNWs that are Relatively Permanent Waters (RPW) [i.e., tributaries that typically flow year-round or have continuous flow at least seasonally]; and wetlands that directly abut such tributaries. In addition, the agencies will assert jurisdiction over every water body that is not an RPW if that water body is determined (on the basis of a fact-specific analysis) to have a significant nexus with a TNW.

"A significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or an insubstantial effect on the chemical, physical, and/or biological, integrity of a TNW. Principal considerations when evaluating significant nexus include the volume, duration, and frequency of the flow of water in the tributary and the proximity of the tributary to a TNW, plus the hydrologic, ecologic, and other functions performed by the tributary and all of its adjacent wetlands."

#### 2.2.3 HHEI and QHEI

Data collection for all streams included the completion of either the Ohio EPA Headwater Habitat Evaluation Index (HHEI) for primary headwater habitat (PHWH) streams or the Qualitative Habitat Evaluation Index (QHEI) for larger streams. Biologists are Ohio EPA trained to assess streams using the QHEI and HHEI. Following the Ohio EPA guidance, any stream with a drainage area of less than or equal to one mi² (2.589 km²) and pools with a maximum water depths less than or equal to 15.75 in (40 cm) were evaluated using the HHEI (Ohio EPA 2012). The QHEI was used to evaluate streams with drainage areas greater than one mi² and pools with maximum water depths greater than 15.75 in (40 cm; Ohio EPA 2006). The assessment location is representative of the stream/headwater within the project area.



#### 3.0 LITERATURE REVIEW

#### 3.1 USGS TOPOGRAPHIC MAP

The U.S. Geological Survey (USGS) 7.5-minute topographic series (West Point Quadrangle) is shown on Figure 2 (Appendix A). The preferred and alternate routes are depicted as partially forested. Elevations range from approximately 1,080 feet above mean sea level (AMSL) near onsite ponds and streams to approximately 1,250 feet AMSL in north portion of the proposed switchyard. Two (2) USGS named streams, Alder Lick Run and Bailey Run, are depicted crossing the central portion of the preferred and alternate routes. Three (3) strip mines are shown along the preferred and alternate routes. These strip mines are no longer active.

#### 3.2 NWI MAP

The National Wetlands Inventory (NWI) map (West Point Quadrangle) of the project area is shown on Figure 3 in Appendix A. One (1) palustrine, emergent, persistent, seasonally flooded (PEM1C) is identified within the eastern portion of the preferred and alternate routes. This wetland corresponds to the delineated Wetland W-19. One (1) palustrine, scrub-shrub, broad-leaved deciduous, seasonally flooded (PSS1C) is identified in the eastern portion of the preferred and alternate routes. This wetland was not identified during the field survey. Three (3) palustrine, unconsolidated bottom, intermittently exposed (PUBG) deepwater areas are depicted within the eastern portion of the preferred and alternate routes. These deepwater systems correspond with the delineated Open Waters OW-2, OW-3, and OW-4, which are located in the areas depicted as strip mines.

#### 3.3 COUNTY SOIL SURVEY

The project area is found on the *Soil Survey of Columbiana County, Ohio* and was accessed on the Soil Survey Geographic (SSURGO) Database (USDA Web Soil Survey, 2010) (Figure 4, Appendix A). Fifteen (15) soil types are depicted within the project area. One (1) of the soil types, Holly silt loam (HkA), is considered predominantly hydric within Columbiana County. All soil types are listed in Table 6.

Table 6. Soil Types Mapped Project Area.

Symbol	Soil Type	Status	Common Landform	Percent Hydric	Acres in Project Area	Percent Within Project Area
BkB	Berks channery silt loam, 2 to 6 percent slopes	Not Hydric	Hills	0	6.346	3.7
BkC	Berks channery silt loam, 6 to 15 percent slopes	Not Hydric	Hills	0	43.334	25.5
BkD	Berks channery silt loam, 15 to 25 percent slopes	Not Hydric	Hills	0	18.401	10.8
BkE	Berks channery silt loam, 25 to 40 percent slopes	Not Hydric	Hills	0	29.689	17.5
BpF	Bethesda very channery silt loam, 25 to 70 percent slopes	Not Hydric	N/A	0	8.264	4.9
СоВ	Coshocton silt loam, 2 to 6 percent	Not Hydric	Hills	0	5.167	3.0
CoC	Coshocton silt loam, 6 to 15 percent slopes	Not Hydric	Hills	0	16.802	9.9
FbB	Fairpoint very channery silt loam, 0 to 8 percent slopes	Not Hydric	N/A	0	3.654	2.2
FbF	Fairpoint very chanery slit loam, 25 to 70 percent slops	Not Hydric	N/A	0	1.851	1.1
GnB	Gilpin silt loam, 2 to 6 percent Isoipes	Not Hydric	Hills	0	9.412	5.5
GnC	Gilpin silt loam, 6 to 15 percent slopes	Not Hydric	Hills	0	3.924	2.3
GoC	Gilpin-Coshocton silt loams, 6 to 15 percent slopes	Not Hydric	Hills	0	9.183	5.4
HkA	Holly silt loam, 0 to 2 percent slopes, frequently flooded	Predominantl y Hydric	Flood Plain	95	1.020	0.6
KeB	Keene silt loam, 2 to 6 percent slopes	Not Hydric	Hills	0	9.528	5.6
UkC2	Upshur-Berks complex, 6 to 15 percent slopes, eroded	Not Hydric	Hills	0	3.077	1.8



#### 3.4 AERIAL PHOTOGRAPHY

A recent aerial photograph of the project area is shown on Figure 5 (Appendix A). The site is depicted as rural residential, agricultural, and forested land. The project area crosses several roads, including Osbourne Road, Fife Coal Road, Forbes Road, and Hibbets Mill Road. The surrounding land use consists of rural residential, agricultural, and forested land. Several open water areas are visible on the area and appear to correlate to the inactive strip mine locations.

#### 3.5 OHIO NATURAL HERITAGE DATABASE

Data from the Ohio Department of Natural Resources (ODNR) Natural Heritage database was received on May 29, 2015. The Database indicated a record of the bowman's root (*Porteranthus trifoliatus*), a state threatened species, within a one (1) mile radius of the project area. No unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, state nature preserves, state or national parks, state or national forests, national wildlife refuges, or other protected natural areas are located within the project area.

#### 3.6 U.S. FISH AND WILDLIFE SERVICE

The project area was examined for suitable habitat for federally listed species whose known range includes Columbiana County, Ohio. These species are the federally endangered Indiana bat (*Myotis sodalis*), the federally threatened northern long-eared bat (*Myotis septentrionalis*), the federal species of concern eastern hellbender (*Cryptobranchus alleganiensis alleganiensis*), the federal candidate species eastern massasauga (*Sistrurus catenatus catenatus*), and the federal species of concern bald eagle (*Haliaeetus leucocephalus*).

Living or dead trees with shedding or peeling bark or cavities may serve as roosting trees for the Indiana bat and/or the northern long-eared bat. In addition, sheds and barns may serve as roosting habitat for the northern long-eared bat. No potential winter hibernaculum, barns, or sheds are located within the project area. Several areas throughout the preferred and alternate routes are forested. Additionally, the southern portion of the proposed switchyard is forested. An in-depth habitat analysis was not performed, however; all onsite forested areas contained some trees that displayed suitable habitat features. Suitable habitat features include, but are not limited to, larger canopy trees, trees exhibiting peeling bark, holes, or crevices, open understory, and stream or wetland corridors. All tree clearing is recommended to occur within the USFWS approved seasonal clearing window of October 1 through March 31. If the seasonal clearing restriction cannot be followed, further coordination with the USFWS is recommended prior to clearing any trees within the project area.



The eastern hellbender is found in habitats with swift-running, fairly shallow, and highly oxygenated water. They require an abundance of large, flat rocks or logs for use as cover objects. The two (2) onsite perennial streams may provide adequate habitat for the eastern hellbender. Further coordination with the USFWS may be required prior to impacting these streams.

Preferred habitat for the eastern massasauga includes wet areas including wet prairies, marshes and low areas along rivers and lakes. Massasaugas also use adjacent uplands during part of the year. The majority of the project area is upland field and forest that is not preferable habitat for the eastern massasauga. The wetlands that are located within the project area are open and do not provide appropriate cover for the eastern massasauga.

The bald eagle nests in large trees near water. No bald eagle habitat was observed within the project area.

#### 4.0 RESULTS

Thirty-six (36) sample plots were established within eight (8) natural communities. Two (2) of these communities are considered wetland. Table 7 summarizes the sample plot data.

Table 7. Sample Plot Results.

Sample Plot	Photo*	Community**	Hydrophytic Vegetation	Wetlands Hydrology	Hydric Soil	Status	Location
1	1	Agricultural Field				Non-Wetland	SP-1
2	2	PEM	Х	х	Х	Wetland	W-1
3	3	Forest				Non-Wetland	SP-3
4	4	PFO	X	Х	х	Wetland	W-1
5	5	Forest				Non-Wetland	SP-5
6	6	PEM	Х	Х	х	Wetland	W-2
7	7	Forest				Non-Wetland	SP-7
8	8	РЕМ	X	Х	X	Wetland	W-6
9	9	PEM	X	Х	Х	Wetland	W-8
10	10	PEM	Х	Х	Х	Wetland	W-7
11	11	Forest				Non-Wetland	SP-11



Sample Plot	Photo*	Community**	Hydrophytic Vegetation	Wetlands Hydrology	Hydric Soil	Status	Location
12	12	Agricultural Field				Non-Wetland	SP-12
13	13	PEM	Х	X	· <b>X</b>	Wetland	W-9
14	14	Forest				Non-Wetland	SP-14
15	15	Forest	Х			Non-Wetland	SP-15
16	16	PFO	Х	Х	Х	Wetland	W-11
17	17	PEM	Х	Х	Х	Wetland	W-12
18	18	Forest				Non-Wetland	SP-18
19	19	PEM	Х	Х	Х	Wetland	W-13
20	20	Scrub-Shrub				Non-Wetland	SP-20
21	21	PEM	Х	Х	Х	Wetland	W-15
22	22	PEM	Х	Х	X	Wetland	W-15
23	23	Maintained Lawn				Non-Wetland	SP-23
24	24	PEM	Х	х	Х	Wetland	W-17
25	25	Maintained Lawn				Non-Wetland	SP-25
26	26	Open field				Non-Wetland	SP-26
27	27	PEM	Х	Х	Х	Wetland	W-18
28	28	PEM	х	Х	х	Wetland	W-19
29	29	Old Field				Non-Wetland	SP-29
30	30	Open Field				Non-Wetland	SP-30
31	31	PEM	Х	Х	Х	Wetland	W-20
32	32	Forest				Non-Wetland	SP-32
33	33	PEM	Х	Х	Х	Wetland	W-21
34	34	Shrub-Scrub				Non-Wetland	SP-34
35	35	PEM	Х	Х	Х	Wetland	W-22
36	36	PEM	Х	Х	Х	Wetland	W-23

\*photos are located in Appendix B

\*\* PEM = Palustrine Emergent; PFO = Palustrine Forested.



Each sample plot, delineated wetland, and other waters are illustrated on Figure 5 (Appendix A). The following section describes general conditions found within each plant community and summarizes relevant information from the data forms, located in Appendix C

#### 4.1 Non-Wetlands

Six (6) upland communities exist within the project area and include agricultural field, maintained lawn, open field, old field, scrub-shrub, and forest. The agricultural field community is represented by Sample Plots 1 and 12 and are dominated by planted crops such as corn (*Zea mayes*, UPL) and alfalfa (*Medicago sativa*, UPL). Purple deadnettle (*Lamium purpureum*, UPL), common dandelion (*Taraxacum officinale*, FACU), and Faber's foxtail (*Setaria faberi*, FACU) are also growing among the planted crop species.

The forested vegetative community is represented by Sample Plots 3, 5, 7, 11, 14, 15, 18, and 32. Typical dominant tree species includes black cherry (*Prunus serotina*, FACU), red maple (*Acer rubrum*, FAC), northern red oak (*Quercus rubra*, FACU), honeylocust (*Gleditsia triacanthos*, FAC), eastern hop-hornbeam (*Ostrya virginiana*, FACU), shagbark hickory (Carya ovata, FACU), pin oak (*Quercus palustris*, FACW), and white pine (*Pinus strobus*, FACU). The shrub layer contains tree saplings, American elm (*Ulmus americana*, FACW), swamp white oak (*Quercus bicolor*, FACW), rambler rose (*Rosa multiflora*, FACU), green ash (*Fraxinus pennsylvanica*, FACW), American hornbeam (*Carpinus caroliniana*, FAC), and Allegheny blackberry (*Rubus allegheniensis*, FACU). Dominant species within the herbaceous layer of the forest includes garlic mustard (*Alliaria petiolata*, FACU), spinulose wood fern (*Dryopteris carthusiana*, FAC), Pennsylvania sedge (*Carex pennsylvanica*, UPL), hooded blue violet (*Viola sororia*, FACU), spotted touch-me-not (*Impatiens capensis*, FACW), false mermaidweed (*Floerkea proserpinacoides*, FAC), mayapple (*Podophylum peltatum*, FACU), and Virginia springbeauty (*Claytonia virginica*, FAC).

The maintained lawn community is represented by Sample Plots 23 and 25 and includes Kentucky bluegrass (*Poa pratensis*, FACU), great plantain (*Plantago major*, FACU), white clover (*Trifolium repens*, FACU), Virginia springbeauty, and common dandelion (*Taraxacum officinale*, FACU) in the herbaceous stratum.

The open field community is represented by Sample Plots 26 and 30 and is dominated by white clover and orchardgrass (*Dactylis glomerata*, FACU). Other species present within the herbaceous layer include common dandelion, English plantain (*Plantago lanceolata*, UPL), Canada goldenrod (*Solidago canadensis*, FACU), wrinkle-leaf goldenrod (*Solidago rugosa*, FACU), oldfield cinquefoil (*Potentilla simplex*, FACU), and



common yarrow (Achillea millefolium, FACU). Allegheny blackberry is present in small amounts in the shrub layer.

The old field community is represented by Sample Plot 29. The herbaceous layer was dominated by garlic mustard and Canada goldenrod. The shrub stratum contained rambler rose and the tree layer had small amounts of sugar maple (*Acer saccharum*, FACU), black cherry, and gray birch (*Betula populifolia*, FAC).

Sample Plots 20 and 34 represent the scrub-scrub community and includes black cherry in the tree stratum. The shrub layer is dominated by crabapple (*Malus* sp., NI) and rambler rose. Common herbaceous plants include false mermaidweed, Virginia springbeauty, a grass (*Poa* sp., NI), an aster (*Symphyotrichum* sp., NI), common yarrow, and oldfield cinquefoil.

#### 4.2 WETLANDS

Twenty-three (23) wetlands were identified and delineated within the project area. The onsite portion of these wetlands consist of palustrine emergent (PEM) and palustrine forested (PFO) vegetation. The delineated wetlands have been categorized using the Ohio Rapid Assessment Method for Wetlands v.5.0 (ORAM); scoring forms are included in Appendix D. Wetland results are given in Table 8 and are briefly described in the following section. Wetland size has been determined for areas within the project area. Wetlands are illustrated on Figure 5 (Appendix A).

Table 8. Wetland Results within the Project Area.

Wetland	Photo*	Cowardin Classification	ORAM Score	ORAM Category	Size within Project Area (acres)	Location within the Project		
W-1	37-38	PEM/PFO	47.5	Category 2	0.587	Switchyard, Preferred & Alternate		
W-2	39	PEM	40	Modified 2	0.018	Preferred & Alternate		
W-3	40	PEM	40	Modified 2	0.002	Preferred & Alternate		
W-4	41	PEM	40	Modified 2	0.001	Preferred & Alternate		
W-5	40	PEM	40	Man 21:50 and 0	0.038	Preferred Route		
VV-5	42	PEIVI   2		72 1 LIVI 40	40	Modified 2	0.058	Alternate Route
W-6	43	РЕМ	47	Category 2	0.406	Alternate Route		



Wetland	Photo*	Cowardin Classification	ORAM Score	ORAM Category	Size within Project Area (acres)	Location within the Project
W-7	44	PEM	46	1 or 2 gray zone	0.049	Alternate Route
W-8	45	PEM	46	1 or 2 gray zone	0.012	Alternate Route
W-9	46	PEM	46	Category 2	0.040	Preferred Route
W-10	47	PFO	47.5	Category 2	0.101	Preferred Route
W-11	48	PFO	47.5	Category 2	0.510	Preferred Route
W-12	49	PEM	29.5	Category 1	0.012	Preferred Route
W-13	50	PEM	47	Category 2	0.192	Preferred Route
W-14	51	PEM	48	Category 2	0.002	Preferred Route
W-15	52	PEM	23	Category 1	0.158	Preferred Route
	02	1 5141		Oategory 1	0.261	Alternate Route
W-16	53	PEM	43	Modified 2	0.139	Preferred & Alternate
W-17	54	PEM	43	Modified 2	0.706	Preferred & Alternate
W-18	55	PEM	29	Category 1	0.031	Preferred & Alternate
W-19	56	PEM	40	Modified 2	0.173	Preferred & Alternate
W-20	57	PEM	14	Category 1	0.008	Preferred & Alternate
W-21	58	PEM	32	1 or 2 gray zone	0.019	Preferred & Alternate
W-22	59	PEM	32	1 or 2 gray zone	0.138	Preferred & Alternate
W-23	60	PEM	32	1 or 2 gray zone	0.013	Preferred & Alternate
	Total Wetland					
	Total	Wetland Preferre	2.301			
	Total	Wetland Alternat	2.034			

\*photos are located in Appendix B

Wetland W-1 is a floodplain wetland along intermittent Stream S-2a and is comprised of palustrine emergent (PEM) and palustrine forested (PFO) vegetation. Sample Plot 2 and 4 represent these communities, respectively. Sample Plot 2 is dominated by skunk



cabbage (*Symplocarpus foetidus*, OBL) and spotted touch-me-not in the herbaceous layer. The shrub layer contains a small amount of rambler rose. Sample Plot 4 contains red maple, green ash, American elm, and white oak in the tree layer. The herbaceous layer contains rambler rose, hooded blue violet, Carolina spring beauty, spotted lady's thumb (*Persicaria maculosa*, FACW), spotted crane's bill (*Geranium maculatum*, FACU), an unknown moss species, and an unknown aster (*Asteraceae* sp.). This wetland assessed within the range of a Category 2 wetland using the ORAM scoring method. This score is a result of medium upland buffers, moderate surrounding land use, hydrologic sources and degree of saturation, sparse invasive species cover, and wetland microtopographic features.

Wetlands W-2, W-3, W-4, W-5, W-6, W-7, and W-8 are floodplain wetlands, associated with Stream S-5, and dominated by PEM vegetation These wetlands are represented by Sample Plots 6, 8, 9 and 10. Typical herbaceous vegetation within these wetlands includes spotted touch-me-not, skunk cabbage, fowl manna grass (*Glyceria striata*, OBL), a buttercup (*Ranunculus* sp.), fowl bluegrass (*Poa palustris*, FACW), crooked-stem American-aster (*Symphyotrichum prenanthoides*, FAC), and cream avens (*Geum virginianum*, FAC). Rambler rose is a common shrub within these wetlands. Wetlands W-2, W-3, W-4, W-5 were scored together due to their similar habitat, hydrologic connection, and proximity to one another. Wetland W7 and W-8 were also scored together for the same reasons. All six (6) wetlands assessed within the range of Category 2 wetlands using the ORAM. This score is a result of their medium upland buffers, low surrounding land use, hydrologic features (sources, connectivity, and degree of saturation), small amount of disturbances, and sparse amount of invasive species cover.

**Wetlands W-9, W-10 and W-11** are floodplain wetlands along Stream S-13. Wetland W-9 is comprised of PEM vegetation and Wetlands W-10 and W-11 are comprised of PFO vegetation. Sample Plot 13 represents Wetland W-9. Dominant herbaceous vegetation within this wetland includes spotted touch-me-not and false mermaidweed.

Sample Plot 16 represents onsite vegetation within Wetlands W-10 and W-11. The tree stratum is dominated by red maple. Dominant shrub species include gray dogwood (*Cornus racemosa*, FAC) and rambler rose. The herbaceous stratum is dominated by spotted touch-me-not and sensitive fern. Wetland W-10 is lies adjacent to the intermittent Stream S-13a and is connected to W-11 by ephemeral Stream S-14. Wetland W-11 receives hydrology from ephemeral Stream S-16 and intermittent Stream S-13a. Wetlands W-9, W-10, and W-11 assessed within the range for Category 2 wetlands. This score resulted from wide upland buffers, moderate surrounding land use, low habitat alteration and substrate disturbance, and nearly absent invasive species cover.



Wetland W-12 is a small depressional PEM wetland located on the edge of a residential property south of Osborne Road. Wetland W-12 is represented by Sample Plot 17. This sample plot is dominated by fowl manna grass. Other common herbaceous plants include spotted touch-me-not, skunk cabbage, garden yellow rocket (*Barbarea vulgaris*, FACU), and rough bedstraw (*Galium asprellum*, OBL). This wetland assessed within the range of a Category 1 wetland due to small size, narrow upland buffers, degree of habitat alteration, and habitat recovery from past disturbances.

Wetlands W-13 and W-14 are floodplain PEM wetlands associated with intermittent Streams S-17 and S-18. Sample Plot 19 is representative of onsite vegetation within these wetlands. Dominant herbaceous vegetation includes fowl manna grass, spotted touch-me not, and single-vein sweet flag (*Acorus calamus*, OBL). These wetlands assessed within the range for Category 2 wetlands using the ORAM. Wetland W-13 has narrow upland buffers, moderate surrounding land use, fair habitat development, and evidence of past disturbances.

**Wetland W-15** is a swale wetland dominated by PEM vegetation. Wetland W-15 is drained by Stream S-19. Sample Plots 21 and 22 represent typical onsite vegetation within this wetland. Dominant herbaceous plants include false mermaidweed, fowl bluegrass, crooked-stem American-aster, New England American-aster (*Symphyotrichum nove-angilae*, FACW), purple-leaf willow herb (*Epilobium coloratum*, FACW), and an American-aster (*Symphyotrichum* sp.). This wetland assessed within the range of a Category 1 or 2 gray zone due to its small size, intensity of surrounding land use, and recovery from past disturbances.

Wetlands W-16 and W-17 are PEM wetlands within the Alder Lick Run riparian area. Sample Plot 24 is representative of these wetlands. The dominant herbaceous plants within these wetlands includes lamp rush (*Juncus effusus*, FACW) and shallow sedge (*Carex lurida*, OBL). Other herbaceous plants include common fox sedge (*Carex vulpinoidea*, OBL) and narrow-leaf cattail (*Typha angustifolia*, OBL). This wetland assessed within the range of a Modified 2 wetland. This wetland is relatively large with medium buffers, moderate surrounding land use, and has a high degree of connectivity to jurisdictional streams. However, these wetlands have a moderately high degree of disturbance due to proximate agricultural practices.

Wetland W-18 is a depressional PEM associated with ephemeral Stream S-22. Sample Plot 27 is representative of this wetland. Typical herbaceous vegetation includes single-vein sweetflag, fowl manna grass, spotted-touch-me-not, deer tongue rosette grass (Dichanthelium clandestinum, FAC), cottongrass bullrush (Scirpus cyperinus, FACW), a sedge (Carex sp., NI), and a goldenrod (Solidago sp., NI). This wetland scored within the range of an 1 using the ORAM. This score is a result of the small size of the wetland, its



medium buffers with a mixture of high and low surrounding land use, and past disturbance.

Wetland W-19 is a floodplain wetland along Bailey Run. Typical onsite characteristics are represented by Sample Plot 28. The herbaceous layer is dominated by reed canary grass (*Phalaris arundinacea*, FACW), skunk cabbage, and stinging nettle (*Urtica dioica*, FACU). The shrub layer contained rambler rose, an elderberry (*Sambucus* sp.), and Atlantic ninebark (*Physocarpus opuliformis*, FACW). This wetland assessed within the range of a Modified 2 using the ORAM. This is a result of the degree of habitat and substrate disturbance as well as extensive invasive species cover.

Wetland W-20 is a depressional PEM located within an agricultural field. Sample Plot 31 represents typical onsite vegetation. The herbaceous layer is dominated by lamp rush, common fox sedge, and white clover. This wetland assessed within the range of a Category 1 wetland due to its small size, narrow upland buffers, moderately high level of surrounding land use, and degree of disturbance.

Wetlands W-21, W-22, and W-23 are depressional wetlands located within a scrub-shrub setting along the east side of Hibbetts Mill Road. These wetlands are represented by Sample Plots 33, 55, and 36. Dominant vegetation within these wetlands include deertongue rosette grass, lamp rush, arrow-leaf tear thumb (*Persicaria sagittata*, OBL), spotted trumpetweed (*Eutrochium maculatum*, FACW), and Allegheny blackberry (*Rubus allegheniensis*, FACU). These wetlands were scored together and assessed within the range of 1 or 2 gray zone. These wetlands were relatively small, with medium buffers, and low surrounding land use. Additionally these wetlands had poor to fair habitat development, are recovering from past disturbances, and scored low with regard to hydrologic characteristics.

#### 4.3 STREAMS AND RIVERS

Two (2) USGS-named perennial streams, twelve (12) intermittent streams, and eleven (11) ephemeral streams were identified and delineated within the project area. The results are depicted in Table 9 and illustrated on Figure 5 (Appendix A). Ephemeral and intermittent streams have been assessed using the Primary Headwater Habitat Evaluation Index (HHEI) and perennial streams were assessed using the Qualitative Habitat Evaluation Index (QHEI); the scoring forms are included in Appendix E. Each stream classification, based on the QHEI or HHEI score, is located in Table 9. Locations of these streams are depicted in Appendix A, Figure 5. Representative photographs are included in Appendix B, and stream habitat data forms are provided in Appendix E.



Table 9. Stream Results within the Project Area.

Table 9. Stream Results within the Project Area.									
Stream		Photos*	Туре	Average Bankfull Width (feet)	Average Depth at Time of Survey (inch)	Length Within Project Area (linear feet)	Area Within Project Area (acres)	QHEI/ HHEI Score	Location within the Project
Alder Lick Run		61	Perennial	10	8	244	0.056	29.5	Preferred & Alternate
Baile Run	-	62	Perennial	8	6	206	0.038	57	Preferred & Alternate
S-1		63	Ephemeral	1	0	1	0.001	24	Switchyard
S-2	а	64	Intermittent	3	3	642	0.044	31	Switchyard, Preferred, & Alternate
	b		_			64	0.004		Preferred & Alternate
S-3		65	Intermittent	2	3	98	0.005	21	Switchyard
S-4		66	Intermittent	3	2	21	0.001	33	Preferred & Alternate
	а					860	0.059	50	Preferred & Alternate
S-5	рсде	67	Intermittent	3	4	260 187 18 11	0.018 0.013 0.001 0.001		Alternate Alternate Alternate Alternate
S-6		68	Ephemeral	3	0	103	0.007	11	Alternate
S-7		69	Intermittent	3	0.5	313	0.021	30	Alternate
S-8		70	Ephemeral	4	0	42	0.004	25	Alternate
S-9		71	Ephemeral	2	0	273	0.013	30	Alternate
S-10	)	72	Intermittent	4	2	416	0.038	39	Alternate
S-11		73	Ephemeral	2	0	66	0.003	35	Alternate
S-12	2	74	Ephemeral	2	0	25	0.001	26	Alternate
S-13	a b	75	Intermittent	4	2	500 554	0.046 0.051	50	Preferred
S-14	ţ	76	Ephemeral	1	0	27	0.001	17	Preferred
S-15	5	77	Ephemeral	2	0	31	0.001	17	Preferred
S-16		78	Ephemeral	1	0	73	0.002	14	Preferred
S-17	<b>'</b>	79	Intermittent	4	2	176	0.016	37	Preferred
S-18		80	Intermittent	4	3	255	0.023	41	Preferred



Stream	Photos*	Туре	Average Bankfull Width (feet)	Average Depth at Time of Survey (inch)	Length Within Project Area (linear feet)	Area Within Project Area (acres)	QHEI/ HHEI Score	Location within the Project
S-19	81	Intermittent	3	3	115	0.008	31	Preferred & Alternate
S-20 a	S-20 a 82	Ephemeral	2	0	4	0.001	17	Preferred &
3-20 b	02	Epilemerai		U	38	0.002		Alternate
S-21	83	Intermittent	2	1	33	0.002	16	Preferred & Alternate
S-22	84	Ephemeral	1	1	68	0.002	16	Preferred & Alternate
S-23	85	Intermittent	4	3	228	0.021	47	Preferred & Alternate
Total Stream					5,952	0.504		
Total Preferred Route					3,034	0.302		
Total Alternate Route					3,775	0.326		

\*photos are located in Appendix B

The onsite streams are mostly formed in the either the valleys throughout the project area or are formed as erosional channels along steep hillsides. The stream systems associated with Streams S-2, S-3, S-7, S-9, and S-10 are draining south and west into an unnamed tributary of Yellow Creek. The stream systems associated within Streams S-1, S-13, S-17, and S-19 area draining east and south into Alder Lick Run. Alder Lick Run crosses through the preferred and alternate easement routes and is shown flowing south through an inactive strip mined area. Bailey Run also flows south through the preferred and alternate routes. Bailey Run is also shown within an area described as strip mine. All onsite waters are flowing south an eventually into Little Yellow Creek. Little Yellow Creek is a tributary to the Ohio River. Assessments of the onsite streams ranked Alder Lick Run as 'very poor' and Bailey Run as 'good' using the narrative rating of the QHEI. All other onsite streams were assessed using the HHEI. Assessments of the onsite portions of these streams resulted in Class I and Class II Primary Headwater Habitat streams. None of the onsite streams would be considered high quality or waters of special concern.

#### 4.4 PONDS AND LAKES

A portion of four (4) open water aquatic resources were identified within the project area. The results are depicted in Table 10 and illustrated on Figure 5 (Appendix A).



Table 10. Stream Results within the Project Area.

Open Water	Photo*	Туре	Area within project area (acres)	
OW-1	86	Lacustrine Open Water	0.015	
OW-2	87	Lacustrine Open Water	0.220	
OW-3	88	Lacustrine Open Water	0.001	
OW-4	89	Lacustrine Open Water	0.234	
1	0.470			

Onsite open water ponds are associated with the inactive strip mine sites. These open water areas are located at the bottoms of steep gorges with rocky slopes.

## 5.0 ASSUMPTIONS AND DISCLAIMERS

The constant influence of human activity on the project area can result in a rapid change of ecological boundaries. Over time, natural succession and changes in hydrology can also affect their boundaries. Precision of GPS collected data is subject to variation caused by canopy cover, atmospheric interference and satellite configuration. Because slight inaccuracies are possible, all acreages and derived boundaries presented in this report are approximate.

The results and conclusions contained in this report apply to the year and date in which the data were collected. This report is not considered officially valid until it is approved by the Corps. The report is then valid for a period of five years. Refer to the Corps' Regulatory Guidance Letter # 94-1 (23 May 1994).



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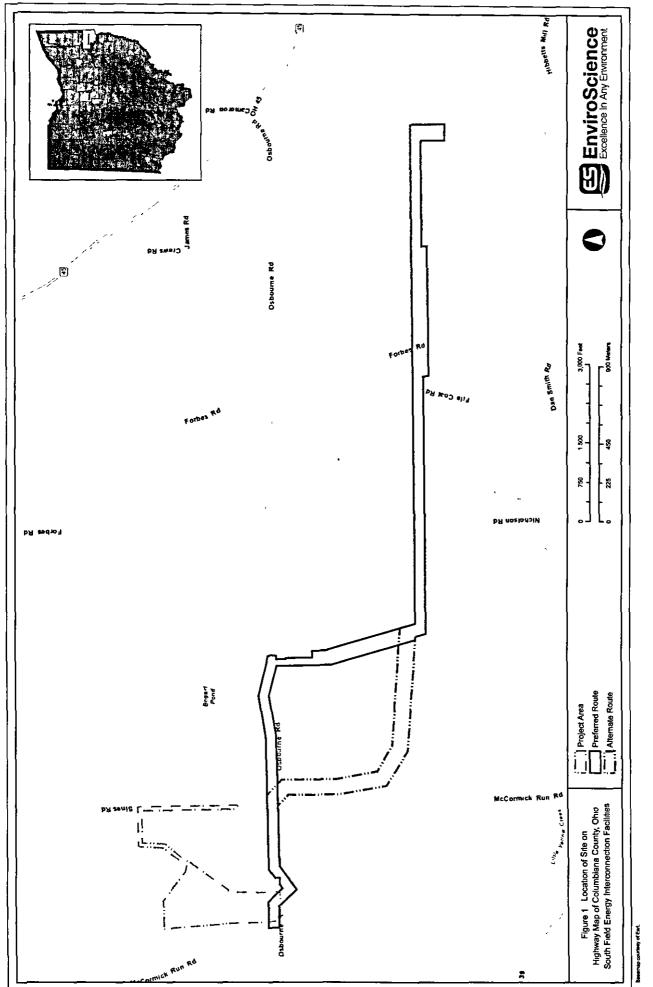
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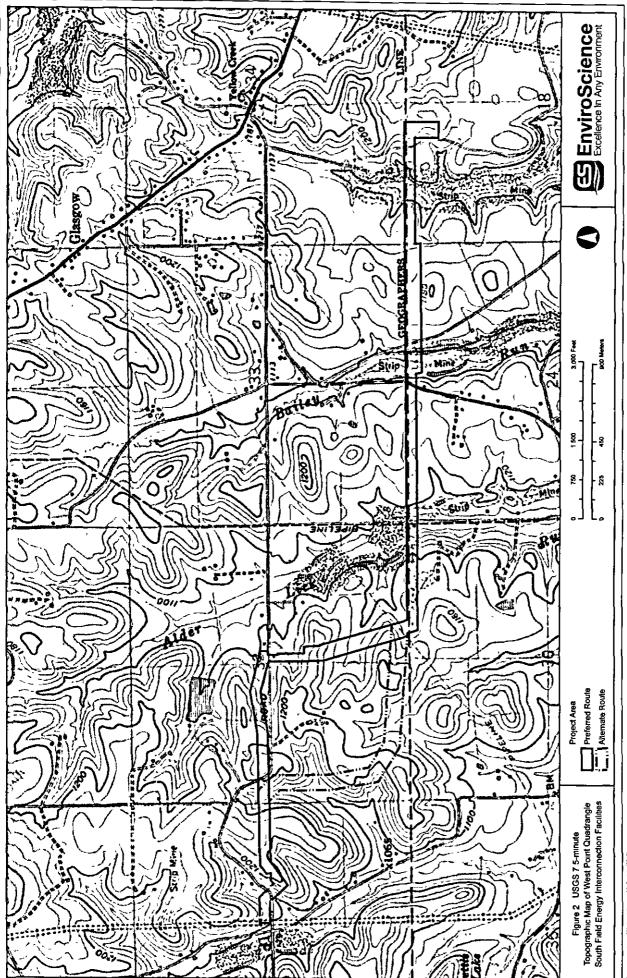


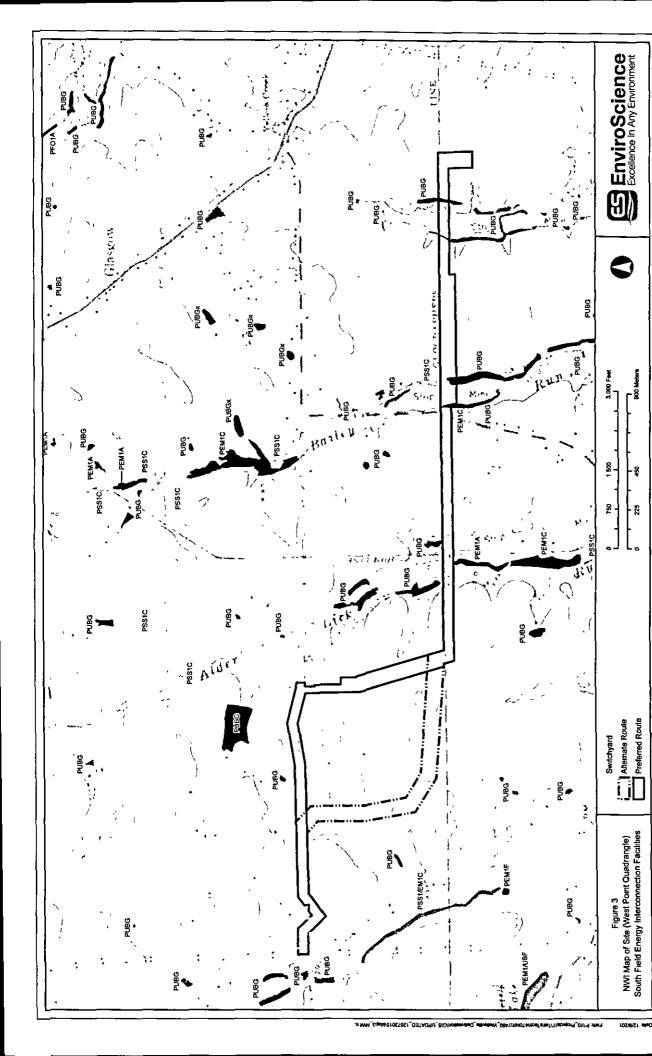
Appendix A:

**Figures** 

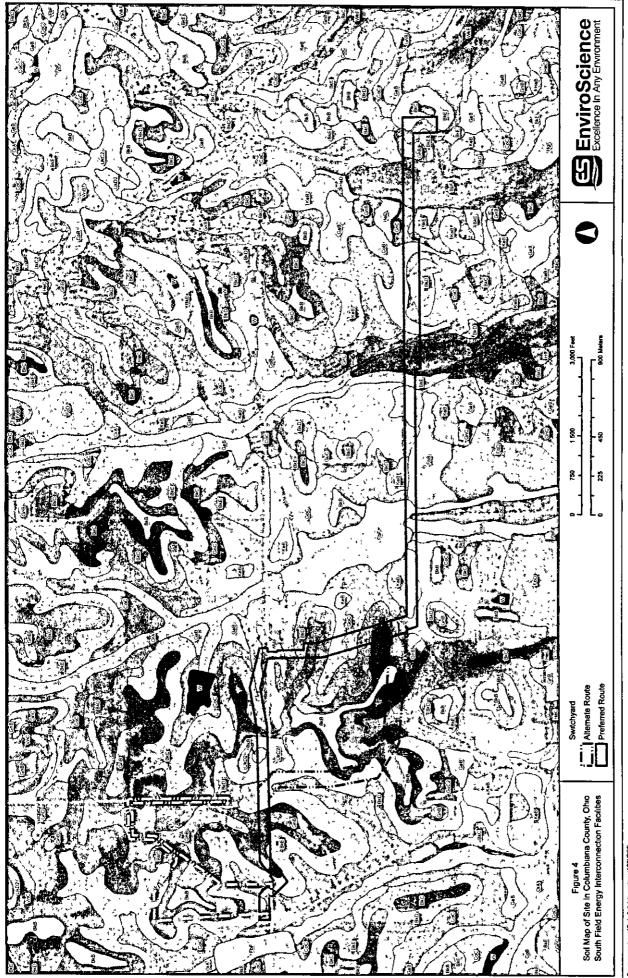


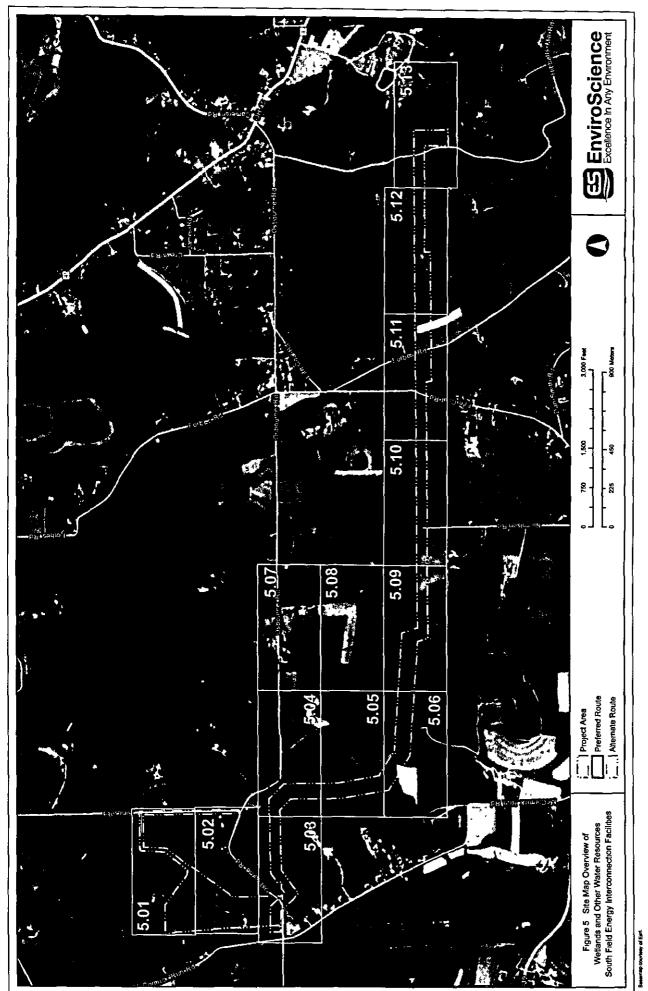
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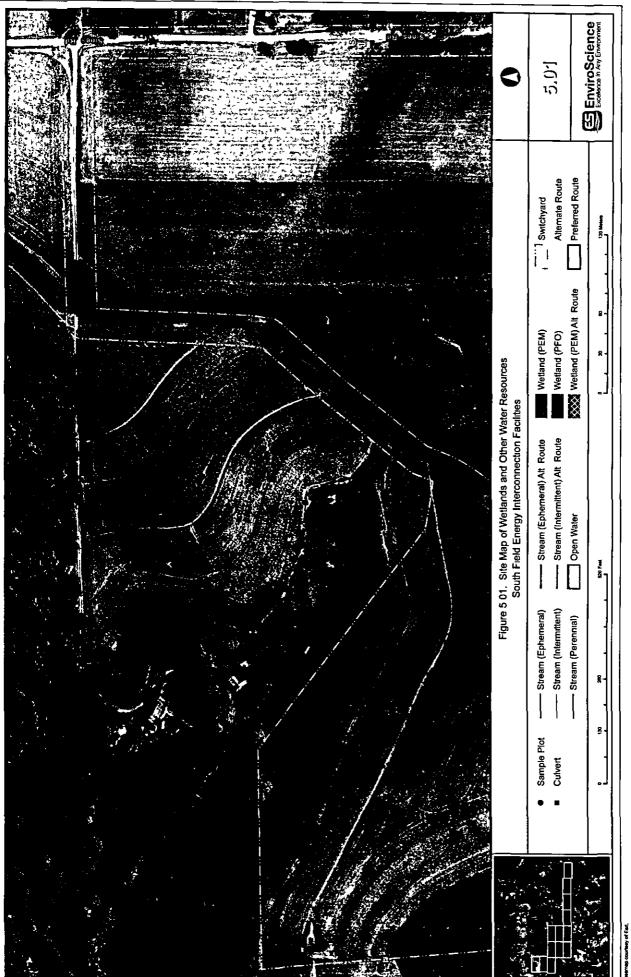




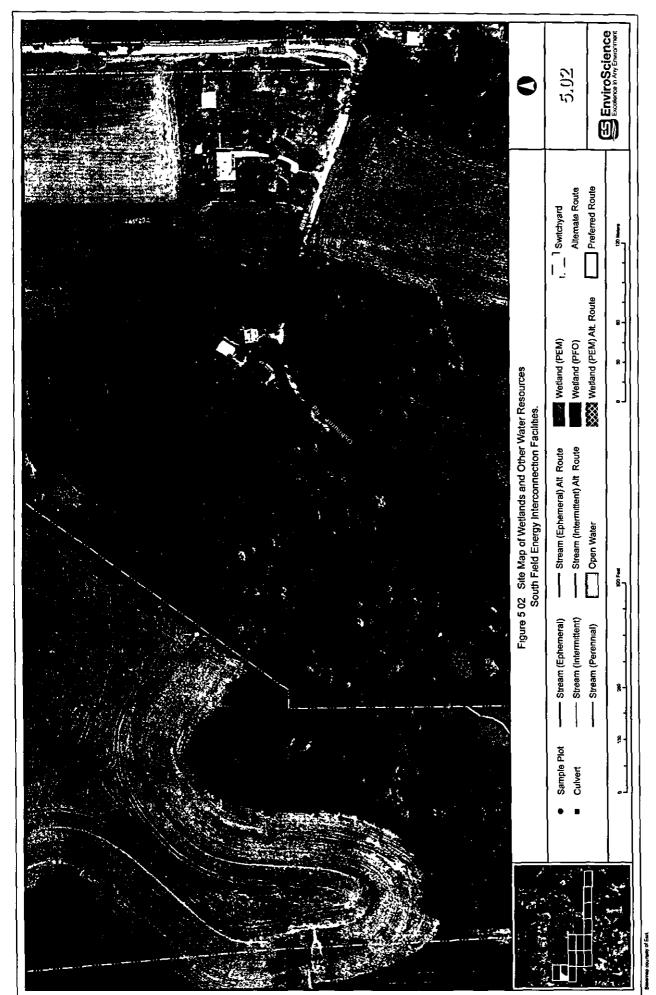
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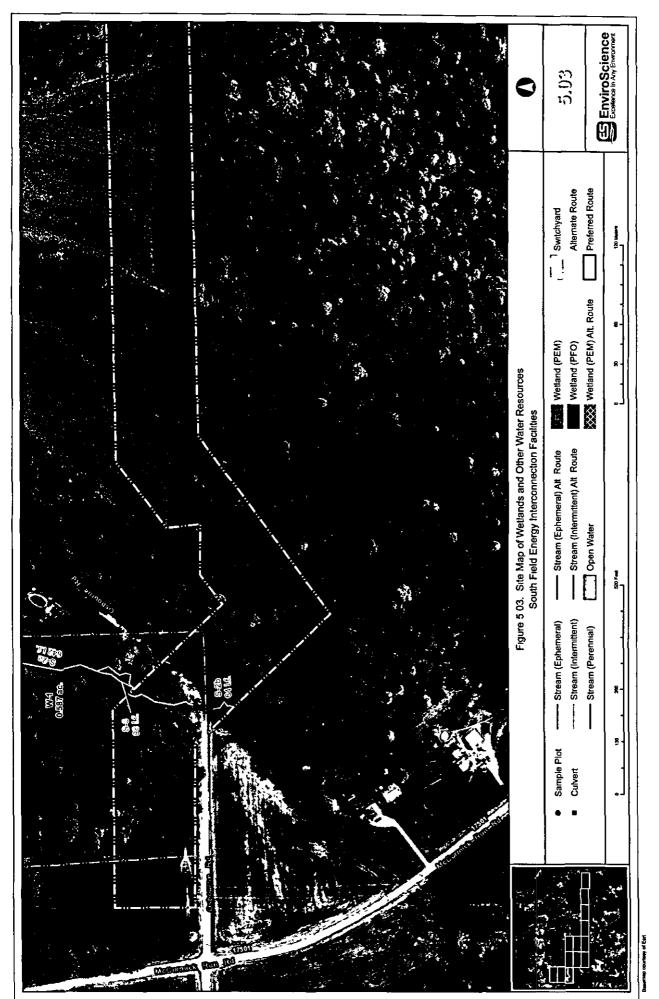


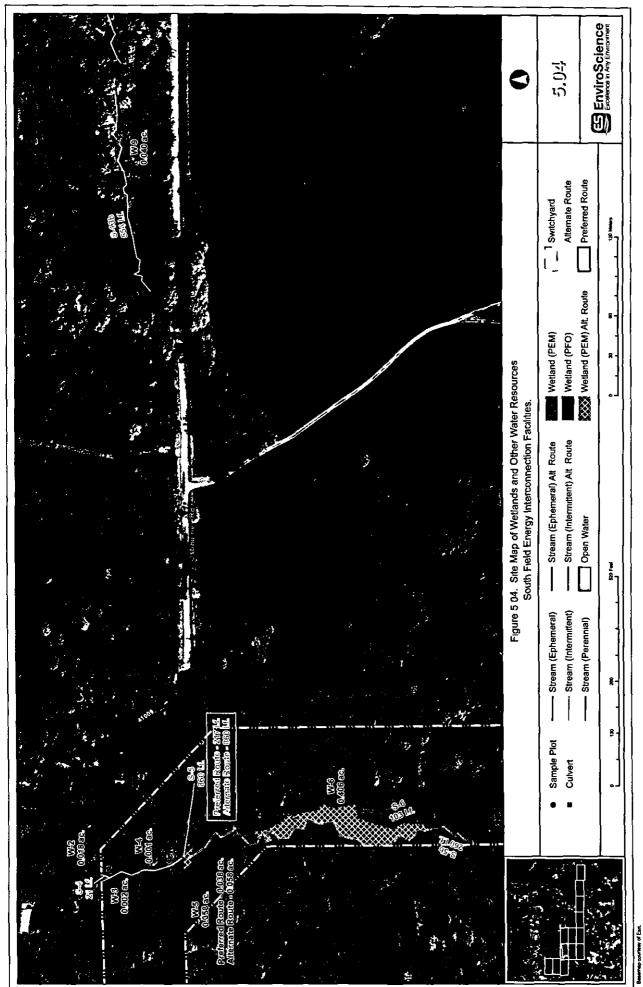




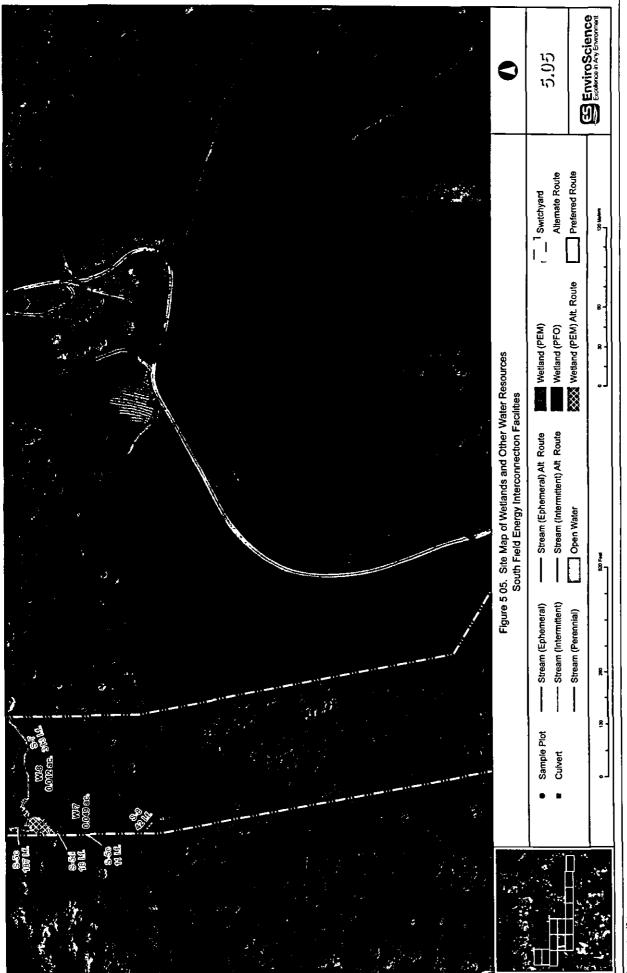
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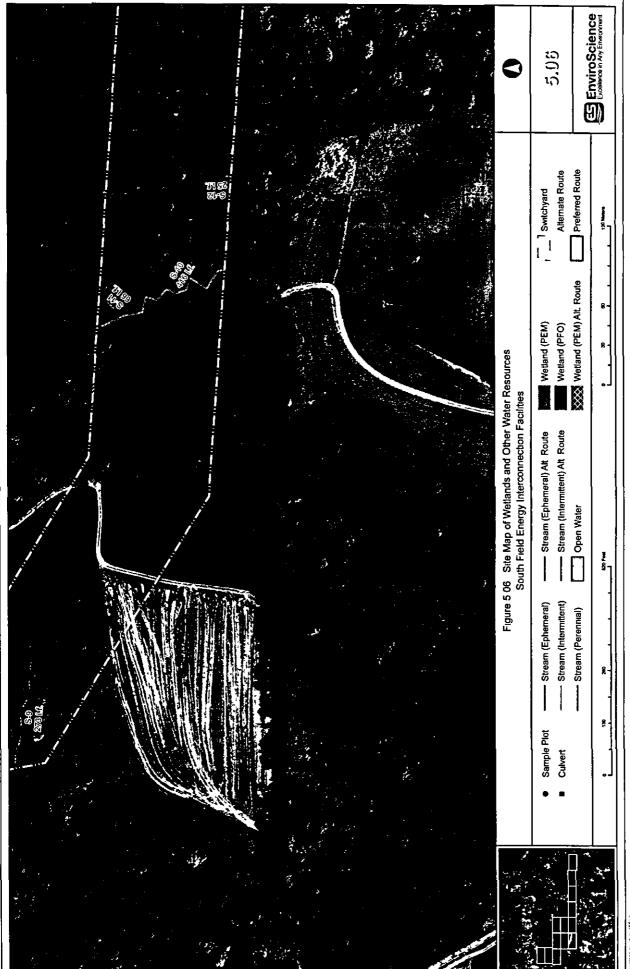


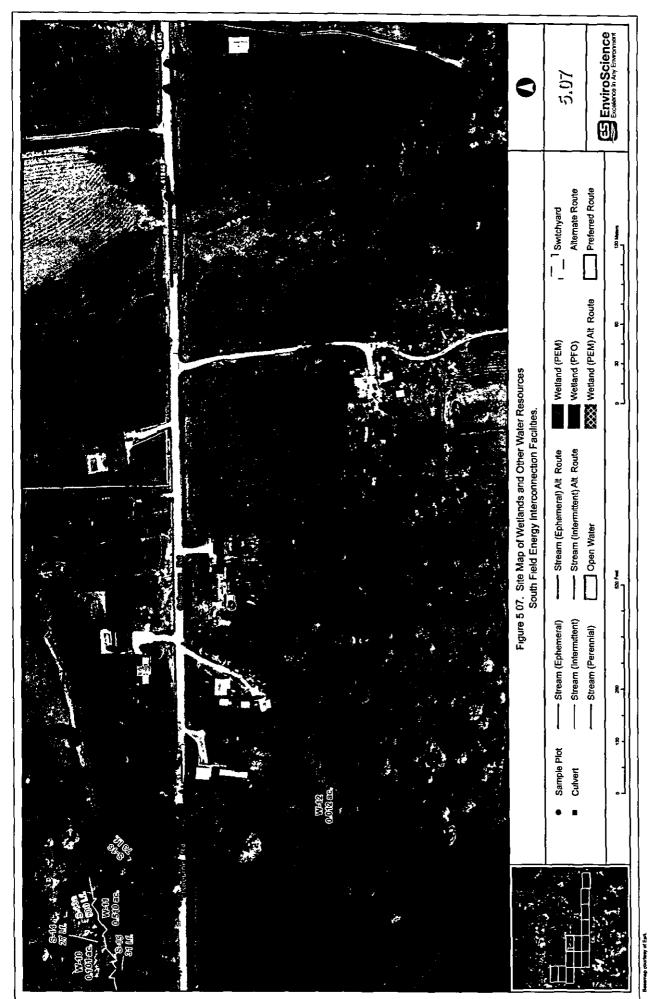


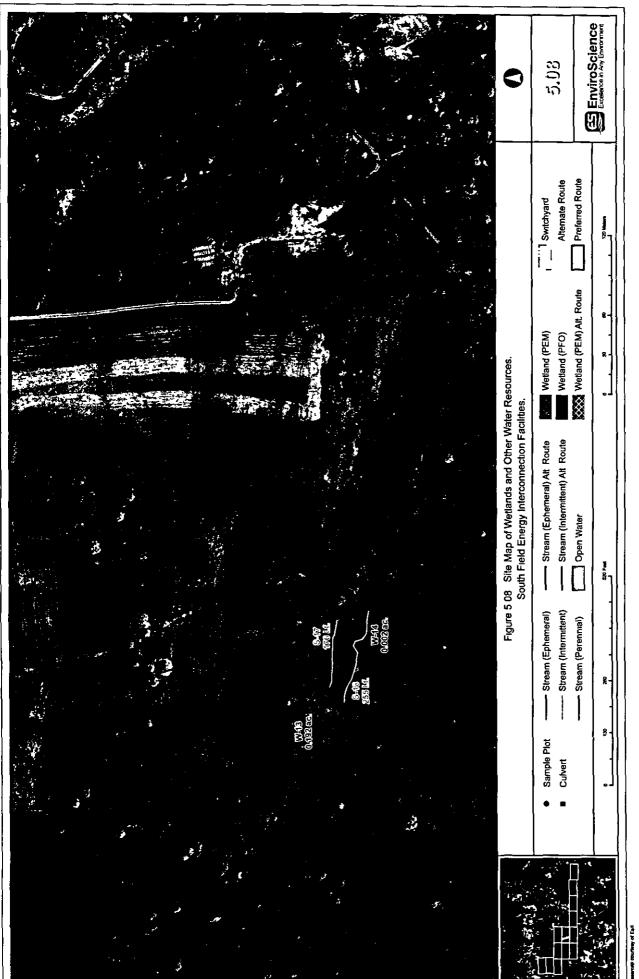


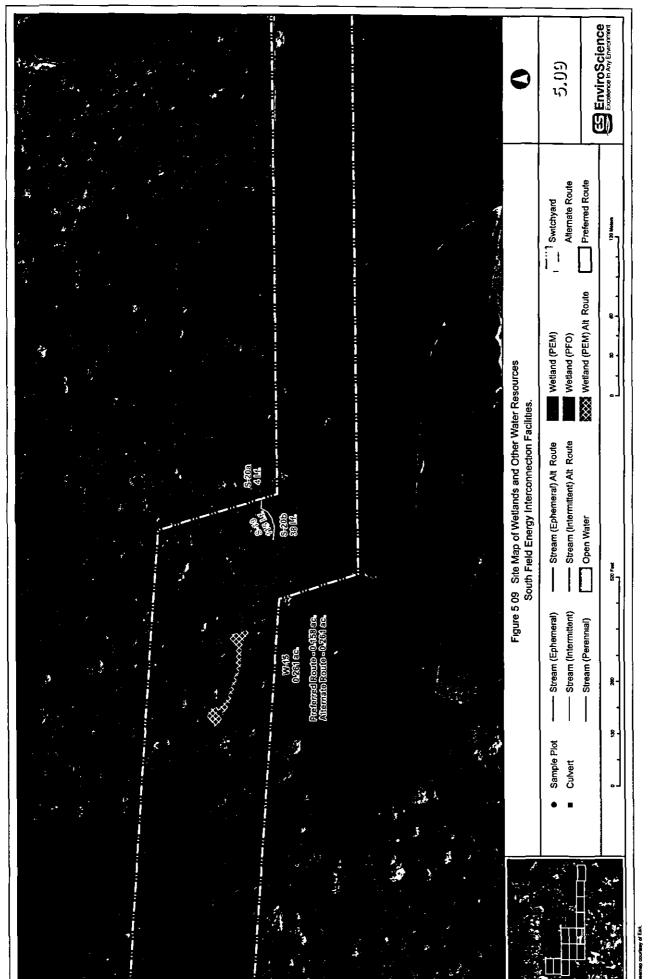
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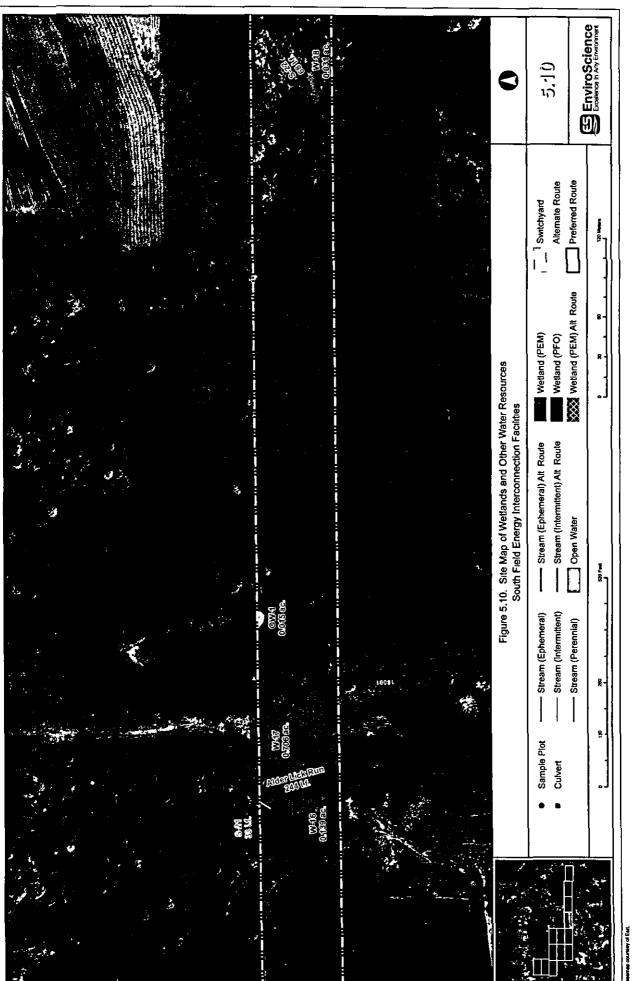


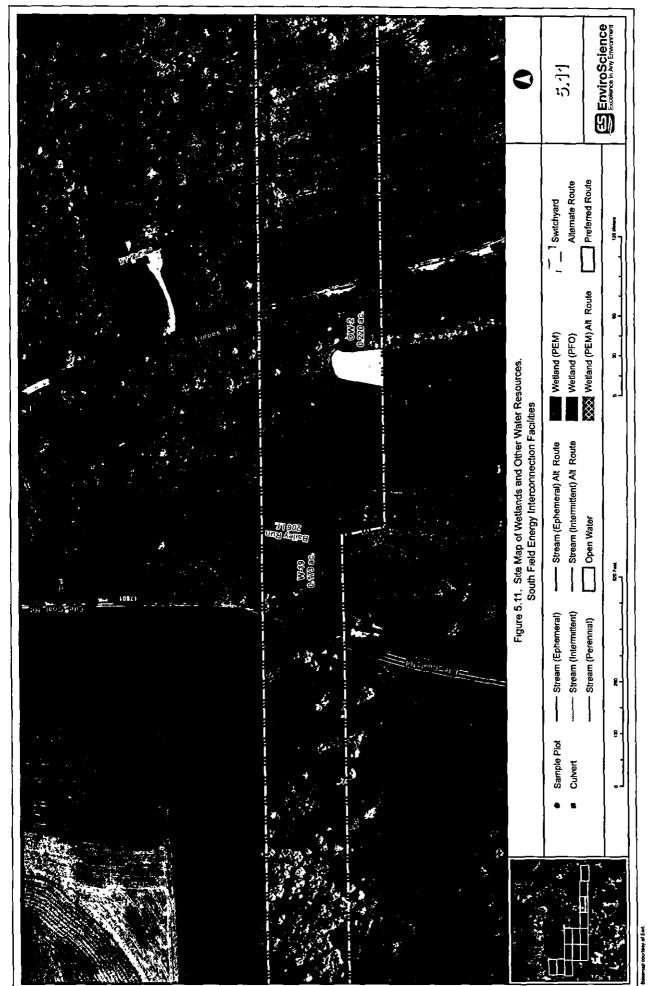


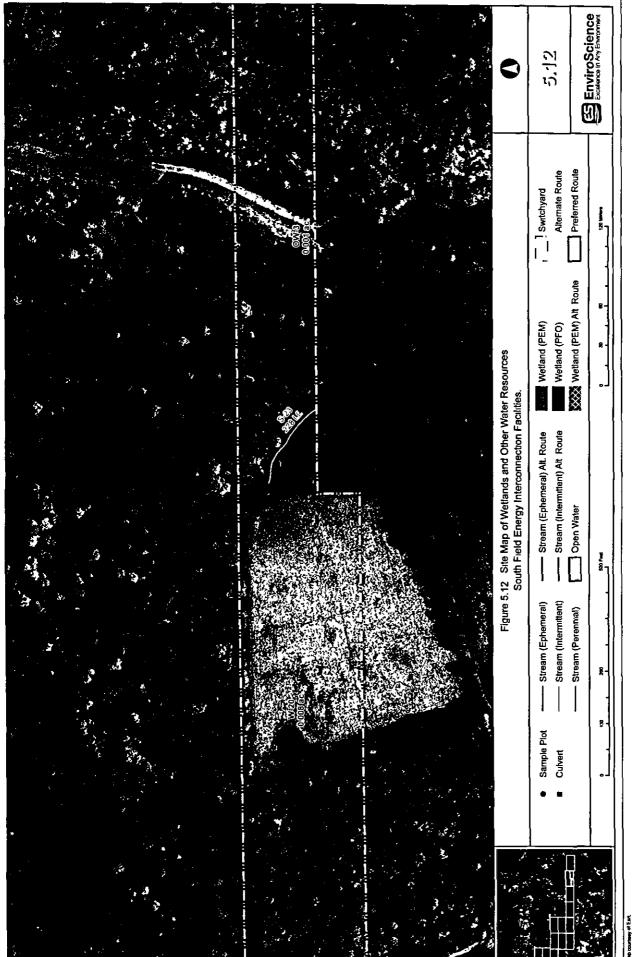


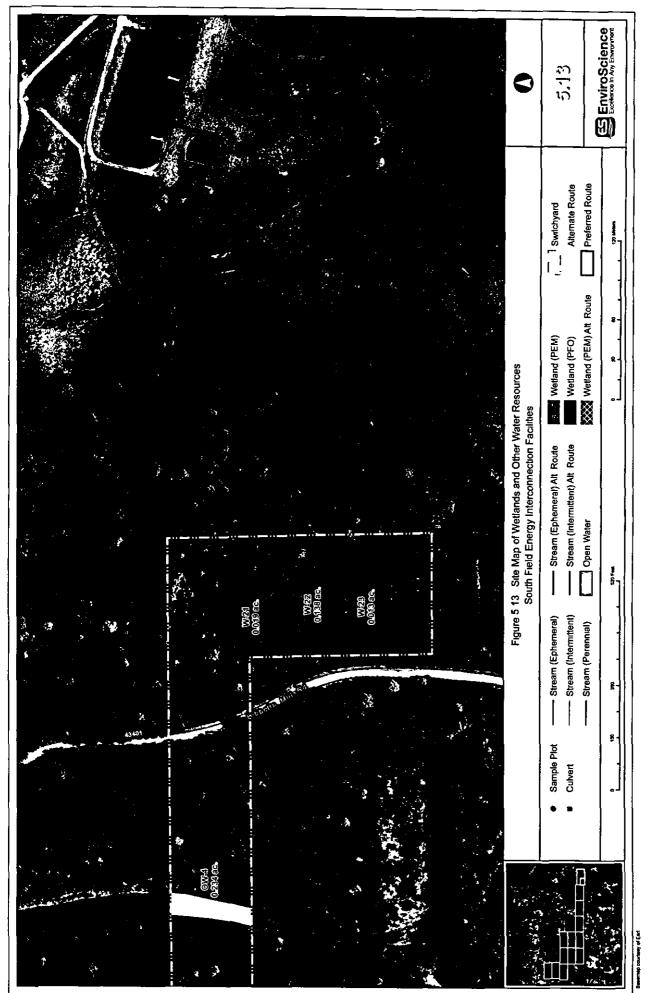


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Appendix B:

**Photographs** 



Photo 1. Sample Plot 1 representing agricultural field.



Photo 2. Sample Plot 2 within Wetland W-1.



Photo 3. Sample Plot 3 representing upland forest.



Photo 4. Sample Plot 4, representing a palustrine forested (PFO) vegetated community within Wetland W-1.



Photo 5. Sample Plot 5 representing upland forest.



Photo 6. Sample Plot 6, representing a palustrine emergent vegetative community within Wetland W-2.



Photo 7. Sample Plot 7 representing upland forest.



Photo 8. Sample Plot 8 within Wetland W-6, representing a PEM.



Photo 9. Sample Plot 9 within Wetland W-8.



Photo 10. Sample Plot 10 within Wetland W-7.



Photo 11. Sample Plot 11 representing upland forest.

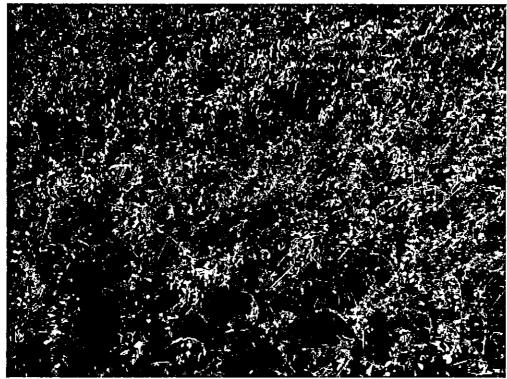


Photo 12. Sample Plot 12 representing agricultural field dominated by alfalfa (*Medicago sativa*).



Photo 13. Sample Plot 13 within Wetland W-9.



Photo 14. Sample Plot 14 representing an upland forest.



Photo 15. Sample Plot 15 representing upland forest.



Photo 16. Sample Plot 16 within Wetland W-11.



Photo 17. Sample Plot 17 within Wetland W-12.



Photo 18. Sample Plot 18 representing a forest.



Photo 19. Sample Plot 19 within Wetland W-13.



Photo 20. Sample Plot 20 representing an upland scrub-shrub community.



Photo 21. Sample Plot 21 within Wetland W-15, a PEM.



Photo 22. Sample Plot 22 within Wetland W-15.

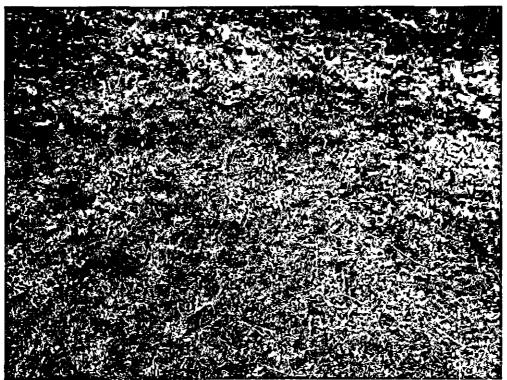


Photo 23. Sample Plot 23 representing a maintained lawn.



Photo 24. Sample Plot 24 within Wetland W-17.

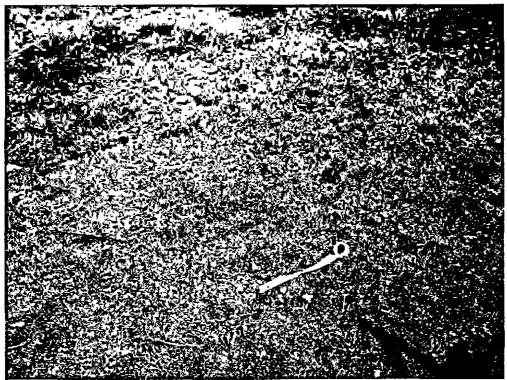


Photo 25. Sample Plot 25 representing a maintained lawn.



Photo 26. Sample Plot 26 representing an open field community.



Photo 27. Sample Plot 27 within Wetland W-18, a PEM



Photo 28. Sample Plot 28 within Wetland W-19.



Photo 29. Sample Plot 29 representing an old field.



Photo 30. Sample Plot 30 representing an open field.



Photo 31. Sample Plot 31 within Wetland W-20.



Photo 32. Sample Plot 32 representing an upland forest.



Photo 33. Sample Plot 33 within Wetland W-21.



Photo 34. Sample Plot 34 representing a scrub-shrub community.



Photo 35. Sample Plot 35 within Wetland W-22.



Photo 36. Sample Plot 36 within Wetland W-23.



Photo 37. Wetland W-1 (PEM) facing north.



Photo 38. Wetland W-1 (PFO) facing north.



Photo 39. Wetland W-2 facing east.



Photo 40. Wetland W-3 facing north.



Photo 41. Wetland W-4 facing south.



Photo 42. Wetland W-5 facing south.



Photo 43. Wetland W-6 facing south.



Photo 44. Wetland W-7 facing west.



Photo 45. Wetland W-8 facing northeast.



Photo 46. Wetland W-9 facing east.

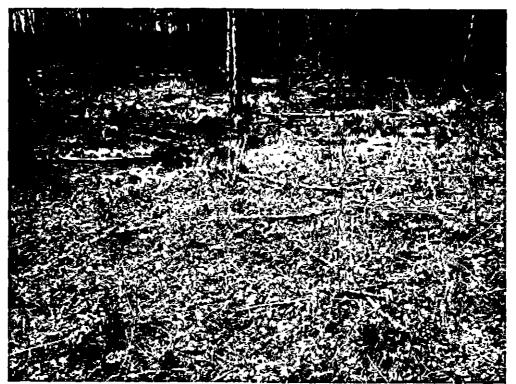


Photo 47. Wetland W-10 facing west.



Photo 48. Wetland W-11 facing southwest.



Photo 49. Wetland W-12 facing northwest.



Photo 50. Wetland W-13 facing north.



Photo 51. Wetland W-14 facing east.



Photo 52. Wetland W-15 facing east.



Photo 53. Wetland W-16 facing east.



Photo 54. Wetland W-17 facing north.



Photo 55. Wetland W-18 facing southwest.



Photo 56. Wetland W-19 facing south.



Photo 57. Wetland W-20 facing northeast.



Photo 58. Wetland W-21 facing west.



Photo 59. Wetland W-22 facing east.



Photo 60. Wetland W-23 facing east.



Photo 61. Alder Lick Run facing north upstream



Photo 62. Bailey Run facing south downstream.



Photo 63. Stream S-1 facing west upstream.



Photo 64. Stream S-2 facing north upstream.



Photo 65. Stream S-3 facing south downstream.



Photo 66. Stream S-4 facing south downstream.



Photo 67. Stream S-5 facing north upstream.



Photo 68. Stream S-6 facing north upstream.



Photo 69. Stream S-7 facing west downstream.



Photo 70. Stream S-8 facing west downstream.



Photo 71. Stream S-9 facing east upstream.



Photo 72. Stream S-10 facing south downstream.



Photo 73. Stream S-11 facing southwest downstream.



Photo 74. Stream S-12 facing north upstream.



Photo 75. Stream S-13 facing west upstream.



Photo 76. Stream S-14 facing west upstream.



Photo 77. Stream S-15 facing south upstream.



Photo 78. Stream S-16 facing southwest upstream.



Photo 79. Stream S-17 facing west upstream.



Photo 80. Stream S-18 facing west upstream.



Photo 81. Stream S-19 facing west upstream.



Photo 82. Stream S-20 facing southwest upstream.

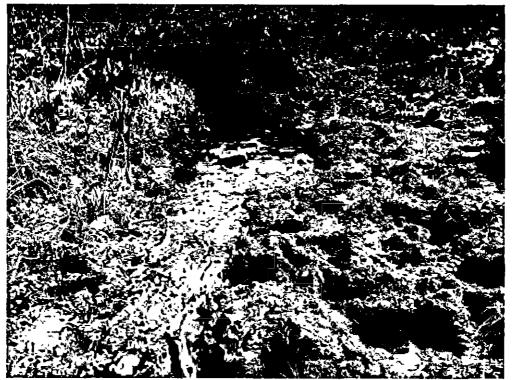


Photo 83. Stream S-21 facing northeast upstream.



Photo 84. Stream S-22 facing northeast upstream.



Photo 85. Stream S-23 facing northwest upstream.



Photo 86. Open Water OW-1 facing northeast.



Photo 87. Open Water OW-2 facing south.



Photo 88. Open Water OW-3 facing west.



Photo 89. Open Water OW-4 facing northwest.

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piodmont

uthom (184.0ps, terrace, etc.) H11(\$L0PCC	Local male (correse, convex, rones): CONCA v.C. (LOCA v.C. v.C. v.C. v.C. v.C. v.C. v.C. v.	I brays COTCA VE Sope (N) 10 CONVERT LOSS 84 NO CONVERT LOSS 84 NO CONVERT LOSS 84 NO CONVERT NO CO
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brooks Agricultural		
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1	Oudrized Rhzpepheres on Living Rooks (C3)	1
1	Presence of Reduced Iron (C4)	Cranfeth Summar (CR)
Comment Uniposes (92)  Due Dormalta (83)  Thin Much	Thin Mock Surface (C7)	Saturation Visible on Aerial Imagery (CI)
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tron Deposits (85)		Geomorphic Position (D2) Shaftow Acultand (D3)
Waler-Stained Leaves (89)		Microtopographic Rallef (D4)
Aquetic Fauna (813)		FAC-Neutral Test (DS)
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Eastern Mountains and Predmont - Interin Vention

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2			Total Number of Dominant Species Across All Strate (B)
9			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
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			07/2
5 × ×			Ec Veg
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Eastern Mountains and Predmont - Interim Version US Army Corps of Engineers

### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

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Remarks:				

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VEGETAT	Tree Stratum	

	or FAC	ţ	(B)	anjan	or FAC 66 67% (A/B)		Ashee:			0 =n x 0	0 × 4= 0	0 × 8 × 0	0 (%) 0 (B)	Prevalence Index = B/A = SDIV/Ot	The state of the s		1 - Rapid Test Mr Pydropnyko Vagetalon 2 - Dominarca Tael In 2004.	Que 10 10 0	4 - Morphological Adaptations* (Provide supporting	data in Remarks or on a separate sheet)	Problematic Hydrophytic Vegetation* (Explain)		'independ of hydric soil and wellend hydrology must be present, unless disturbed or problematic	contaction Strate.	Tree - Woody plents, excluding whee, 3 in. (7 8 cm) or	more in diameter at breast height (DBH), regardhes of height.	Bapting - Woody plants, excluding woody vines, aproximately 20 R	to m) or more in magnin and mass than 2 in. (* 0 cm) USA*.	A (1 to 6 m) in height.	Herts - Alt herbactecut (non-woody) plants, regardless		record where and wood whee green man 440 Km nager.				* **		
Donamica Test worksheet. Number of Dominant Species	That Am OBL, FACW, or FAC	Total Number of Dominant	Species Across Al Strate:	Percent of Dominant Species	That Are OBL, FACM, or FAC		Tritwiserica Index worksheet	OBL species	FACW upecles	FAC species	FACU species	UPL species	Column Totals.	Prevalence	Hodgestrated Versionline Indicators		X 2. Dominance Test is your		4 - Morphotogical	data in Remark	Problematic Hyd	:	Indicators of hydro and and walkind hydrol be present, unless disturbed or problematic	Definitions of Four Vacatation Strata.	Tree - Woody plents, e.	more in diameter at bre	Sapling - Woody plant	Manual man (mot	R (1 to 6 m) in height.	Herts - All harbacecus (non-woody) plants, reg	or sect. and woody part	One by a seema formula			Hydrophyda	Present?	!	
Status														į	R							ē	FACW	£AC¥	Ŧ	FACW	8					1		ĺ				
Domenant Species?	Ì		İ			= Total Cover					j	İ	j	Total Cover	-	Ì					= Total Cover	,		-		z	2	İ				- Total Cover		j	İ	İ		- Total Cover
Abechde % Cover						٥	_							ا	إ						اءِ	ş	S	8	8	15	10					185						0
Strikes (Pick stare, 30)						į	ing Stratum. (Ptol Stray 15							D. Stratum (Plot Steet 15	NOSE municipal						Stratus (Polytonia	Dur fredita	превела серепава	Phaising anundhacea	Poscesé ap	Cerex bromokles	Acons celemus						dr Vine Stratum, (Piot stre. 30' )					

Eastern Mountains and Plecimons - Vention 2.0 US Army Corps of Engineers

Color   Colo	10	\$ # x :	Matrix							-
Concinues   St.   Concinues   St.   Type   Continues   Concinues	10 TR 541 80 75 TR 46 10 C C C C C T T T T T T T T T T T T T T			ĺ		Redox Featu	100			_
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17 PNR 646   25   18   18   18   18   18   18   18   1	1   1   1   1   1   1   1   1   1   1	١	10YR SY	8	7 5YR 4/8	9	U	MPL	claydoam	
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Checkboling   Pick Rediction   Pick Re	2) 3) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4)			İİ						$\mathbf{T}$
all helicators.  Dark Surface (37)  Elipsoland (42)  Dark Surface (53) (pl. LiA 457, 144)  Coast Private Recent (43)  Hall (44)  Thin Dark Surface (53) (pl. LiA 457, 144)  Coast Private Recent (43)  Hall (44)  Hall (44)  Deprivate Meeter (53) (pl. LiA 457, 144)  Hall (44)  Hall (44)  Deprivate Meeter (53) (pl. LiA 457, 144)  Hall (44)  Hall (44)  Deprivate Meeter (53) (pl. LiA 457, 144)  Hall (44)  Hall	2) 3) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4)	Ş	committen, D-Depletion,	RM=Redir	and Martix, M.S-Mersite	d Sand Graft	į,		*Location PL= Pore Living, M=Maetz.	7
Desir Surings (37)	end (A1)  This (A2)  This (A3)  This (A3)  This (A4)  T	200	destors.						Indicators for Problemetic Hydric Solis <sup>3</sup>	_
Explosion (42) Polyvala above Subracy (3) (ALLAN 17,144) (ALLAN 147,144) (ALLA	E Epison (A2)  con Suffice (A3)  sed Lower (A3)  sed Lower (A3)  sed Lower (A3)  (Dett Suffice (A1)  Cont Suffice (A1)  Cont Suffice (A2)  Cont Suffice (A3)  (Control Marker (B4)  P) Redox (S8)  pol Marker (B3)  (Control Marker (B4)  (Control	Helica	A)	•	Dent Surface (57	-			2 cm Muck (A10) (MLRA 147)	_
Seed Lyan (1.54)  Limit of Mark (25)  Seed Lyan (1.54)  Mark (1.01) (MR M)  Seed Lyan (1.52)  Seed Lya	Seed Loyers (July)  Seed Loyers (July)  Net Charter (July)  Net Charter (July)  Net Seed Service (A12)  One Service (A12)  P Garger (See)  P Garger (See)  P Garger (See)  P Garger (See)  P Charter (See)  P Garger (Te Cheerred)  C Layer (Te Cheerred)	HACE E	pedon (A2)	•	Polyvalus Batos	Surface (58)	(MLRA 147,1	ē.	Coast Prairie Redox (A18)	
A Depicial Mail: (F.3)      A Depicial Mail: (F.3)      A Propriet Mail: (F.3)      A Red Der Barbar Mail: (F.3)      A Red Der Barbar Mail: (F.3)      A Red Der Mail: (F.3)	Seed Layers (A.S.)  Nacch (A.O.) (L.M.R. M.  Cherk Surfaces (A.Y.)  You March (B.S.)  You found March (B.S.)  You found March (B.S.)  You found March (B.S.)  You found March (B.S.)  You found March (B.S.)  You found March (B.S.)  You found March (B.S.)  You found March (B.S.)  You found March (B.S.)  You found March (B.S.)  You found March (B.S.)	Hydrogen	Sull de (A4)	•	Loamy Glayad M	mtx (F2)			Pladmont Floodplain Solls (F19)	_
Floader Dark Surface (T1)	Much (10) (LRM M)  Chert Surface (A12)  Chert Surface (A12)  For Machine (A12)  For Arthy March (B1)  For Arthy (A12)  For Chert (B1)  For Chert (B1)  For Chert (B1)  For Chert (B1)  For Chert (B1)  For Chert (B1)  For Chert (B1)  For Chert (B1)  For Chert (B1)  For Chert (B1)  For Chert (B1)	Stratified	Layera (AS)	•		<u> </u>			(MLRA 134, 147)	
Chart Surface (A12)  Chart Sur	Cher Surface (12)  1 Machy Marene (13) (LNR M,  1 Gardy Martin (134)  1 Gardy Martin (134)  1 Cherry (If observed)  1 Cherry (If observed)	E .	34 (A10) (LRR 14)		Redox Derk Surf	(F6)			Very Shallow Dark Surface (TF12)	
To Act of the following of the following the following the following the following the following the following the following the following following the following fol	The Art of Minner (St.) (LARR M, Land Minner (St.) (Carlot Minner (St.)		t Surface (A12)		Redte Decreeds	(r)			Consec (experience)	
BLEA 447, 544) BLEA 478, 144) Prince of the first (SA) Prince of the fi	Libra Act., 144)  19 Gapton (Sch)  Poderoc (Sch)  P	Sendy Me	cdy Mineral (S1) (LRR N.		Non-Mangement	Masses (F12	GLER M.			
Compared (19) Limbic (24) Limbic (25) Limb	y Gayles (Sc) Pedian (Sc) Pedian (Sc) Pedian (Sc)  Layer (F observed)  ( finches)	<b>M</b> L84	147, 148)	•	MLRA 134)				•	
Pad Parent Market (50) University (72) (MLOA 127, 147) University Control of problematic.  1. (Probas) Probast (10 Control of Probast (10	to Lyor (F cheered)	Service S	ayed Metric (54) dray (55)	•	Umbde Surface (	F13) (MLRA	134, 122) Olympia pa 44	•	Indicators of hydrophytic vegetation and	
h (Inches)	ristine Layer (if observed) Type: Digit (inches) The	Biripped	Matrix (SG)	•	Red Parent Mate	na (F21) (ME	RA 127, 147		uniese disturbed or problematio.	_
hydric Sod Present? Ves X	fictor Layer (if observed.)  Type  Type (if observed.)  Type (if observed.)	1		1						т.
Application of Present? Year X	Next.	at i	yer (if observed)							_
Hydris Soul Present? Visa X	Mc:	į								
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Eastern Mountains and Piedmont - Version 2 0 US Army Corps of Engineers

Pledmont Region	
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WETLAND DETERMINATION DATA FORM	
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Diona OH Sampley Date 5/4/15	R2W	Spoot 36	Dellam, WGS 84			¥ ×	narts.)	rtant features, etc.
Properties Suth field Freshy http://organization.com/suth	Secton, Township, Range SSI, 710N, R2W	convex, none)	10mg -80 734186	+ slopes NWI dassification.	Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (Rino, explain in Remarks)	Are "Normal Circumstances" present? Yes X No	Of needed, explain any answars in Remarks.)	SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
chien bealify chalcounty Mass	Section, Township	Local relief (concave, convex, none)	Sucression (IRR or Mark) LRR N 124 Let 40 649509 Long -80 734486	sol Map Unit Name Ble-Boyles Channey 814 lowny 25: 35 percent slopes NW dessiration.	A for this time of year? Yes X	significantly disturbed?		map showing sampling pol
Tield Energy behroome TetraTech	investigator(s) Laura Sayre	Harrisce, etc.)	MARKY LEP N 724	* BKe-Bryks Channey	alogic conditions on the site typical	Are Vegetation Soli or Hydrology significantly disturbed?	Are Vegelation Sol or Hydrology naturally problematic?	F FINDINGS - Attach site
Projectisis South field Energy ApplicantOwner, TetraTech	Investigator(s)	Landtorn (nilistope harace, etc.)	Subregion (LRR or	Soil Map Unit Name	Are offmatic / hydro	Are Vegetation	Are Vegelation	SUMMARY OF

Yes No X		
Is the Sampled Area within a Westend?		
Yes No Y		
Hydrophytic Vegetation Present? Hydric Soll Present? Wetland Hydrology Present?	Remarks Forcs+	15-389

Westernd Hydrology Indications Phinary Indicators Intimum of one is required, check as their special Surface Where (A1) High Water Table (A2) Laborate State		
Primary indicators forbitmum of one is re Surface Water (A1) High Water Table (A2)		Secondary Indicators (minimum of two regures)
Surface Water (A1) High Water Table (A2)	suifed, check all that spot?	Surface Scill Cracks (BA)
Alloh Water Table (A.7)	True Aquatic Plants (B14)	Startisty Venetated Concave Surface (Bet)
	Hydrogen Suilde Odor (C1)	Drainage Patierns (B10)
Seturation (A3)	Oxfdized Rhizospheres on Living Roots (C3)	
Water Marks (B1)	Presence of Reduced Iron (C4)	
Sediment Deposts (B2)	Recent Iron Reduction in Tilled Soils (C6)	
Drin Deposits (B3)	Thin Muck Surface (C7)	ı
Algal Met or Crust (B4)	Other (Explain in Remarks)	Striked of Showsed Plants Ott
iron Deposits (BS)		Germonyle Position (23)
Inundation Visible on Aerial Imagery (B7)	(B7)	Challen And Sent Dail
Water-Stained Leaves (B9)		(Col. Carried Col.
Aquatic Fauna (81.3)		FAC-Mostral Tool (C.S.)
Fleid Observations.		
Surface Water Present? Yes	X X Denth (notes)	
		•
Only Book (2018)	- Mo A Lepton (Inches) — — —	Wetland Hydrology Present? Yes No.
(includes capitlary fringe)	- No A - Lepton (mones)	Ogy Present? Yes
Assurances capitary fringe) Describe Recorded Data (stream gauge,	well, aerial photos, previous inspects	Agy Present? Yes
final describe (stream gauge, Describe Recorded Data (stream gauge, Remarks.	monkoring well, arrial photos, pravious inspects	Agy Present? Yes
Sauracon 1 recent 1 r	monkering well, aertal photes, previous trapect	Ogy Present? Yes
Surragon in Toberti.  Creates capillary finge) Describe Recorded Data (stream gauge, Remarks.	markufrg weit, annu pholos, pravous inspeci	Ogy Present? Yes
Salt about 1 recent.  Vest Secreted Data (stream gauge, Pernants.	nzakaring weil, ential photos, previous inspecia	Ogy Present? Yes
Sur and resent.  Describe Recorded Data (stream gauge, Remarts.	markufrig weit, annui photos, pravlous inspecti	logy Present? Yes
Set and Floating 1995 Describe Recorded Data (stream gauge, Remarks.	markaring weit, ential photos, previous inspecia	Ogy Present? Yes
Set and resert Person.  Describe Recorded Data (stream gauge, Personality.)  Remarks.	monkufng weit, sertial photos, previous inspects	And Present? Yes
Sen and These II for the Second of Sen and gauge, Describe Recorded Data (stream gauge, Remarks.	marka'ng well, annui pholos, previous inspecii	Ogy Present? Yes
Set and meast, 1952. Describe Recorded Data (stream gauge, 1952. Remarks.	monthoring weit, sertial photos, previous inspects	And Andrews Andrews
Set and recent.  Describe Recorded Data (stream gauge, Pernants.	monkufrig weit, annual photos, previous inspects	Agy Present? Yes
Set and Fleering 1955 Set and Fleering 1956 Describe Recorded Data (stream gauge, Remarks.	markaring weit, annual photos, previous inspects	Ogy Present? Yes
Section 1 record 1 record 2 recorded Deta (stream gauge, Describe Recorded Deta (stream gauge, Remarks.	morakuring weit, aertai pholos, previous inspecii	Age Present? Yes
San and Flessiff Describe Recorded Data (stream gauge, Remarts.	monthoring weit, sertial photos, previous inspects	And Andrews Andrews
Seri and Fleesting 1952.  Describe Recorded Data (Strean gauge, Pernanta.	moralching weit, aertai photos, previous inspecis	Agy Present? Yes

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VEGETATION (Four Strate) - Use scientific names of plants.	nes of p			Sampling Point.
The Statem Professor 30'	2 H	Species 2	E See	Dominance Test worksheet.  Number of Dominant Species That Are OBI, FACW, or FAC.
Carye	25	72	333	Total Number of Dominank Spedies Across All Stratiz (B)
5				Percent of Dominant Species. COD (A/B)
26. Perco letal cover 25		20% of total cover	<u> </u>	Prevalence index worksheet  Total & Cover of  OBL species  A 11 2  S 2 2
AUTHOR Brend	ry ra	#	FACW	4+ 4+ × -2-0 6- × -2-0 6- × -2-0 7-
8				Prevalence Index = 8/A = 3, 4
7.				Hydrophysic Vegetation Indicators.  1 - Rapid Test for Hydrophytic Vegetation
	6 80	D Total Cover	1 4	
3	30	7	FACW	data in Remarks or on a separate sheet  Problematic Hydrophylic Vegetation (Explain)
Podovnyllyn Alliano po Symplocorpi	3 6 7	722	SEE SEE	Indicators of hydrosoil and welland hydrology must be present, unless disturbed or problematic. Definitions of Four Westalion Strain.
s pratacem stochale	1	<b>2</b>	77	Tree Woody plants exchuding whee, 3 lb. (7.6 cm) or more in dameter at knest height (DBH), regardess of height.
8, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,				Sapling/Shrub - Woody plants, excluding vines less than 3 to DBH and greater than or equal to 3.28 ft (7 m) last.
11. SON of Intel Const. 30. WOOD VINE Statum (Plot size, 30.	0.3 30.2	20% of total cover	[2]	Herb – Af herbacoous (non-woody) plants regardness of size, and woody plants less than 3.28 it tail Woody wha – All woody whes greater than 3.28 it in height
2 3 3				
2				
50% of total cover	15	= Total Cover 20% of total cover.		Present? Yes No
Remarks (Include photo numbers here or on a separate sheet.)	₹			

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Sampling Point 3 Telute Remark  LC  LC	149) Lebre Liting, Medicities and Carletons for Problematic Hydric Solis 2 on Mexic Avin (Mill RA 147) 149) Carl Mexic Avin (Mill RA 147) 149 Carleton (Avin) Carleton Problematic Hydric Soli Foreson (Problematics) Carleton Solishon Dark Surface (F12) Carleton Solishon D	
Som Profite Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)  Refore Estures Sometimes Some Solve Solves	Sol Indicators Sol In	
Fords Description: (Describe to the depth person)    Profit   Profit   Profit   Profit	Type C.C.Concentration, D-Despetton, RM-ri- Hydric Soal Inducators Hydric Soal Inducators Hydrogon State (As) Hydrogon Surface (As) Beach Histe (As) Beach Histe (As) Beach Histe (As) Despetators Surface (As) Sarriya Mucry Merera (Ss) Sarry Galyac Marit (Ss)	

### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

	Total On Company of the Company of t		A CONTRACTOR OF THE PERSON NAMED IN COLUMN 1
Appropriate	1001 4001		
Investigator(s):	B Steby, E. Kennedy	Section, Township, Range:	Madaon
Landform (pilletope, temace, etc.);	(de es) adops	Local Rabal (concere, convex, rone):	HONE
Subregion (LPR or MLRA):	LRRN LAC	40 649038 Lang	-BO 733635 Detum: HADE3
Soli Man Linit Name			ra Conticon
Are climatic/hydrobalc conditions	As oferstocky diopologic or the site troops to the or the site to the site of the site.	ON X 80Y	2
Are Vegetation . S.	Soil artydrobgy say		
	, ar Hydrology		Yes X NO (If needled, explaint any enverent in Remerks.)
SUMMARY OF FINDINGS -	SUMMARY OF FINDINGS - Attach sits map showing sampling point locations, transacts, important features, atc.	g point locations, transacts,	Important features, etc.
Hydrophyla: Vegetation Present?	×	No Semoded	
Hydric Soil Present?	* * !	No Aves within a	* * **
Remerta.	ì	-	
PFO. Original name 85day1 9P9	*		
HYDROLOGY			
Wettend Hydrology Indicators		1	Secondary Indicators (minimum of two recurred)
Primary Indicators (minimum of one is required; check all that apply)	s required; check at that apply)		Burtens Soll Create (88)
Surtuse Weter (A1)	1	1814)	Spensely Vegetated Concess Surface (SS)
High Wilder Total (A.2)	Hydrogen Bullide Odor (C1)	Oder (C1)	Distrige Patients (B10)
	Odding Philapphine on Livin	Orisinal Phinaphienes on Living Rocks (C3)	Manage Trian Lives (816)
Sections Decrease (92)	Becard from Back	Percent land Statement and (LAS)	Condition (CE)
Deft Deposits (8.3)	Thin March Surface (CT)	(C)	Deturition Vieths on Aerial braggery (CS)
Algold Mell or Church (B4)	Other (Explain in Remarks)	Remarks)	Started or Stressed Plants (D1)
Pon Caponille (8.5)	•		X Geomanysis Puellon (DZ)
Inundation Valide on Aeriet Imagery (87)	speny (8.7)		
Water State of Leaves (88)			X Medicing appropriate Filling (DA)
CIRC MANAGE STREET			
Field Observations.			
Surface Water Present? Yes	- - - -	Dapth (Inches):	
Water Table Present? Yes	₽	Depth (Inches):	Bog
Seturation Present? Yes	₽	Depth (Inches):	₩ × × × × × × × × × × × × × × × × × × ×
(mounts) Describe Recorded Data (stream	(nouces equally nngg) Describe Recorded Date (streem gauge montioning well, serial photos, previous inspections) ill available	dous inspections) if available.	
Remerke:			
US Army Corps of Engineers			Eastern Mountain and Pledmont - Version 2 0

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Dominance 7 and worksheet: Number of Dominant Species That As OBL, FACH or FAC: 4 (4)	Total Number of Dominant Species Across AB Strate:	Process of Lornware Spacese That Are OBL, FACW, or FAC;  Prosilinos Institute sortalised:  Trotal St, Core of 1   Multiply by COBL species 0   x 1 * 10    CBL species 7   x 2 * 134    FACH species 70   x 3 * 210	FACU species 37 x 4 = 145 URt species 0, x 6 = 0 Column Tolein. 174 (A) 492 (B) Prevalence Index = 8.A = 2.227398207	Hydrophysic Vegetaleon indicators.  1 - Rapid Test for Hydrophysic Vegetalion  X 2 - Demonstrator Test is 260%.  X 3 - Prevalence Test is 260%.  X 4 - Morphological Adoptivors (Previde apporting data in Remarks or on a septemble sheet).	Problematic Hydrophyla: Vegestaton (Explen)  * Indicators of hydra sol and wellend hydrology must	Dar present of Feat Valencian Britain.  Tree - Woody plants, encluding views, 3 in. (7.5 cm) or more in feat Valencian Britain Woody plants, encluding mod less than 3 in. (7.6 cm) COH.	Herb. All bettermone (non-woody) plants, regardess of size, and woody plants has ben 3.28 it let. Woody Vines - Al woody whee greater from 3.28 it in height.	Hydrophylic Veganitori Peasart? No No
Status FAC	FACU			B	FACW	FAC FAC FACU		
Species?	zz	- Total Cover	- Total Cover	z	= Total Cover	-   z   z   z   z	- Total Cover	* Total Cover
A Cover	8 2 2			R 9 1 1 1 1	2 A	2 2 2 5 7 7		Darling sheet.)
Toe Stratum (Piot sizer 30 ) A Acer robrum	Linux americana     Linux americana     Linux americana     Linux americana	Sandra Stratum. (Prot Scor 15		Total funcion	Herb Stratum. (Phot sine: 5	The screen of th	11 11 12 12 12 13 14 15 15 15 15	1 2 2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

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	WETLAND DI	ETERMINATION	DATA FORM-	Easiem Mou	WETLAND DETERMINATION DATA FORM - Easiern Mountains and Pledmont Region	ont Region	
Project/She SOLL	IN FIRIT IGHT	MU INKRUON	retion conc	TOS I DOWN	1 Twp; Columbion	Probectors. SOUTH FIRE EARLING THE PLOTITY CHAN CHICAMY MACHEN TWD; Columbian Burg Date 24 NOV 2015	
Applicantowner ICHA TECK	ICHA Tech	,			State: 0H	State: OH Sampling Point: SP-15	
brestigator(s): Ph	n Gilmore	C, Mary (Alr	Y10Y( Secto	n, Township, Ran	INVESTIGATION OF THOM CHIMON CHIMON SECTION TOWNSHIP, RANGE SSI, TION RAIN	DN RAW	
Langform (Nistope, terrace, etc.): [7] [[S[0]]	terrace, etc.): h	ntistope	Local refi	of (conceive, conv	Local rated (conceive, convex, none)   10 ft C	Store CK:	
Sutregion (LRR or	MRN LPR	N 124 Lat	10. (417 738	Long	P8288F, 80,73	PS SOW MARC	
Sod Map Unit Name	BKE- Bry	vs Chammen	SILT TOOKTO,	2 1.0h-22	SOUMED UNIT NAME BYE- Brys ( CHOTPYCON SIT 100/77, 25-40% SITD() INVITABLED IN IN	ation: N A	
Are climatic / hydrol	logic canditions o	in the site hypical for i	this time of year? Yo	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Are climatic / hydrologic conditions on the site typical for this time of year? Year X ho (if no, explain in Remarks.)	emarks.)	
Are Vegetation	] %	Are Vegetation Soil or Hydrology significently disturbed?	signationally disturb	ed? Are "	Normal Circumstarcas" p	Are "Named Chaumstartes" present? Yes X No	
Are Vegetation	\$ P	Are Vegetation Soft or Hydrology naturally problematic?	_naturally problems		(if needed, explain any answers in Remarks.)	rs in Remarks.)	
SUMMARY OF	FINDINGS -	. Attach site ma	p showing sam	pling point k	scations, transects	SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc	

Hydrophylic Vagatation Present? Hydric Soll Present? Weiland Hydrology Present?	Yes No X is the Sampled Area Yes Welland? Yes Welland?	od Avna ves No X
Kanats Upland Forest.		
HYDROLOGY		
Wetland Hydrology Indicators.		Securdary indicators (minimum of two result ed.)
Primary Indicators (minimum of one is required, check all that apply)	s required, check at that apply	Surface Soft Cracks (B6)
Surface Water (A1)	True Aquado Parido (B14) Hadronen Suitate Oder (C1)	Sparsely Vegelated Concare Surface (BB) Destroye Bettoms (B10)
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3)	1 1
Water Marts (B1)	Presence of Reduced from (C4)	1
Sedment Deposits (B2)	Recent fron Reduction in Titled Solls (C6)	J
Drift Deposits (B3)	Thin Muck Surface (C7)	Seturation Visible on Aerial Imagery (C9)
Apel Met of Crust (B4)	Other (Explain in Homens)	Strated of Spressed Plants (D1)
from Deposits (B5)	f E	Geomorphic Position (D2)
Introducion visicie on Aoras imagery (57)	(B/)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Reflet (D4)
Aquetic Faunts (613)		PAC-Natural (est (D5)
	;	
2	¥.	
Water Table Present? Ves.	<b>∮</b> 2 1	•
Saturation Present? Yes	No X Depth (Inches):	Westernd Hydrology Present? Yes
cribe Recorded Data (steam gau	encycles of the proof of the second gauge, mornioding well, aurial photos, previous trapections), if available	ns), if available
Renarks		
No hydrology observed	icenta	
		-

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200 to Command indicator of the control indica	Aboutus   Aboutus   Aboutus   Aboutus   Aboutus   Bottu	Second   S	VEGETATION (Four Strats) - Use scientific names of plants.	to semi			Sampling Fornt
			Iree Stratum (Plot size 20)	Absolute A Cover	Dominant Specent?	Indicator Status Frituil	3
20 2 1 10 10 10 10 10 10 10 10 10 10 10 10 1	1   1   1   1   1   1   1   1   1   1	10   10   10   10   10   10   10   10	2 Acer nibrum	SI		ĘĘ.	:
25 of their cover   2 of their c	10   10   10   10   10   10   10   10	1   1   1   1   1   1   1   1   1   1	a Children's rather	25	>	<u> </u>	<u>0</u>
1   1   1   1   1   1   1   1   1   1		1   1   1   1   1   1   1   1   1   1			11		40.V
2		2	7.				Prevalence Index worksheet:
2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	A   A   A   A   A   A   A   A   A   A		(A) Tanas seed to 2008	1.5	Total Cov	-	Corec at. x1
	A   A   A   A   A   A   A   A   A   A						
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			1 Rybus alleanthemensis	2	7	334	FAC species
1   1   1   1   1   1   1   1   1   1	100   100	2	2 (TUTALLA TATORE	45	$\Rightarrow$	3	FACIL species
2			S. Dille Mortures	*	4=	北北	# # # # # # # # # # # # # # # # # # #
2	2.2. N LECONST. 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	] _	S.	2 2	1 1	\$
2.2 N LPL   124 Cong   12   12   12   12   12   12   12   1	2.2.   1   1   1   1   1   1   1   1   1	2	20SB	S	2	FACU	Prevalence Index = 8/A =
2.2 N (100 Cover)  2.2 N (100 Cover)  2.2 N (100 Cover)  2.3 N (100 Cover)  3.4 O total cover   15   15   15   15   15   15   15   1	1   1   1   1   1   1   1   1   1   1	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.					Hydrophytic Vegetation Indicators:
1   1   1   1   1   1   1   1   1   1	0% of total cover   2   2   2   2   2   2   2   2   2	2. N LPL Day Cover 15 Mode Cov	9				2 - Dominance Test in >50%
0% of total cover   10   10   10   10   10   10   10   1	2	20				1	3 - Prevetence Index is s3 0*
2 V UPL 2 N LIFL 2 N LIFL 2 N LIFL 2 N LIFL 2 N LIFL 2 TOUR COME 3% of tous cover 15	25 V V V V V V V V V V V V V V V V V V V	25 V WPL 25 N LIPE 27 TOUR COMP 25 TOUR COMP 27 TOUR COMP 27 A of tour COMP 28 A of tour COMP 29 TOUR COMP 20	50% of total cover	20%	TOTAL COVART	-	4 - Morphological Adaptations (Provide suppo
2		2	-				data in Remarks or on a separate sheet)
2 N LPL 2 N LPL 2 N LPL 2 N LPL 2 N LPL 2 Total Cover   5   5   5   5   5   5   5   5   5	20   FAEL   10   10   10   10   10   10   10   1	20	Diantin sp.	52	>	4	Problematic Hydrophytic Vegetation* (Exposity
		2 N LEC	-4-	2	+	3	"Indicate and beautiful to the base to the second s
		2 N UPC 2 N UPC 3 Total Cover 15	3	3	+		be present, unless disturbed or problematic.
		7% of total Cover   5   7   7   7   7   7   7   7   7   7	n S	u.	Z	75	Definitions of Four Vegetation Strate;
	7% of botal cover   5   7   7   7   7   7   7   7   7   7	7% of total Cover   5   7   7   7   7   7   7   7   7   7					Tree - Woody plants, excluding whee, S in, (7 6 cm
7% of table cover [5]		15 = Total Cover   5   5   7 total Cover   5   5   7 total Cover   7 total Cov	7.				more in overseller in orbitel (calci), regardies, holofie.
7% of total Cover 15 Total Cover NS of total Cov	7% of total cover 15	76 of total cover   5   7048 Cover   5   7048 Cover   5   7048 Cover   7   7048 Cover   7   7048 Cover   7   7048 Cover   7   7   7   7   7   7   7   7   7	to Ga	Ì			Bapting/Shrub - Woody plants, excluding years, lo
55 a Total Cover 15 Total Cover 15 Total Cover 15 Total Cover 15 Total Cover 15 A of I	15 = Total Cover   5   5   5   5   5   5   5   5   5	2% of total cover   5   5   7 total Cover   5   5   5   5   5   5   5   5   5	10				Miner S. St., Distriction of Community St. St. St. St. St. St. (1997) (1
7% of total cover 15	7% of total cover	7% of total cover 15	4			$\overline{\parallel}$	Herb - All herbaceous (non-woody) plants regards
" Total Cover	"Total Cover	Total Cover		20% 0	A COME COME		or 9228, and woody plants less than 3,28 ft tall
Hydrophydo   Hyd	Pydrophydo   Pyd	Hydrophydo					Woody vine - All woody wines greater than 3.28 it. height.
Hydrophytlo   Hydrophytlo	Hydrophydo Yeelastica	** Total Cover**  ** A total cover**  ** of total c	2	Ì	1		
Hydrophydo   Hyd	# Total Cover Present? Yes	# Total Cover Present? Yes	6				
# Total Cover Present? Yes	# Total Cover Present? Yes	# Total Cover Present? Yes		j			Hydrocthydo
II Total cover	M of total cover	= Total Cover 100   100	9	İ	1	Ī	;
TATE BOOK IN A CO. TO STATE OF THE STATE OF	Remerks. (Include photo numbers here of on a separate sheet)	Remedita, (include photo numbers here or on a separate sheet)	TON, of he is some	30,00	Total Cove	_	
		The state of the s	The state of the s				

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Sampling Point. Sp-5

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			it hydre Solla": (1) (1) (2) (3) (4) (4) (5) (6) (7) (7) (7) (8) (7) (9) (8) (7) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	
licators.)	Remarks		PT. Pt Ptree Linko M-Ments Indicators for Problematic Hydric Solids:  2 can least (A10) (BLEA 147)  Coss Praise Record (A10)  MAIRA 147, 148  Pedamont Procepted Sole (F19)  MAIRA 147, 148  Pedamont Procepted Sole (F19)  Well Staten Unit Surface (F12)  Very Staten Unit Surface (F12)  Offer (Explain in Remerts)  The Solid Present? Yes No X	
Profile Description: (Describe to the depth needed to document the inducator or confirm the absence of Indicators) Depth Maint	Texture			
often th	<i>i</i> i			
for or co	ا <mark>اور</mark> ا ا		The Surface (53)  Polywhae Bedew Surface (59) (MLRA 147, 148)  Thin Coeff Surface (59) (MLRA 147, 148)  Thin Coeff Surface (59) (MLRA 147, 148)  Thin Coeff Surface (59) (MLRA 147, 148)  Redex Dert Surface (79)  Redex Dert Surface (79)  Redex Dert Surface (77)  Redex Dert Surface (77)  Redex Dert Surface (77)  Redex Dert Surface (77)  Redex Dert Surface (77)  Redex Dert Surface (77)  Redex Dert Surface (77)  Redex Dert Surface (77)  Redex Dert Surface (77)  Red Pewent Masserial (72) (MLRA 127, 147)  Red Pewent Masserial (72) (MLRA 127, 147)	
he indeca			Type - C-Concentration, D-Depetion, RM-Reduced Mentr, MS-Masked Sand Grints Historia Coll Indicators - Historia Coll Jodicators - Historia Coll Jodicators - Historia Coll Jodicators - Historia Coll Jodicators - Historia Coll Jodicator (A) - Tran Oart Surface (Si) (MRA 141, L. Hydropan Sufface (Si) (MRA 141, L. Hydropan Sufface (Si) (MRA 141, L. Hydropan Sufface (MR) - Depeted Dear Surface (Fi) (MRA 142, L. Hydropan Sufface (MR) - Depted Dear Surface (Fi) (MRA 143, L. Hydropan Sufface (MR) - Depted Dear Surface (Fi) (MRA 143, L. Machania (MR) 143, L. Machania (Si) (LRR M, L. MACHA 143, L. Machania (Si) (MRA 143, L. Machania (Si) (MRA 143, L. Machania (Si) (MRA 143, L. Machania (Si) (MRA 143, L. Machania (MR) 143, L. M	
document the in Redox Features.	<b>"</b> ]		WS-Mass WS-Mass WS-Mins Syer Mai Walter (F) Task Market (F) Task Mark	
ed to do	Color (moist)		ed Mentri, MS-Masked San Dark Surface (57) Durk Surface (57) (ML Leaver Galeyed Marist (73) Depetied Maulet (73) Propertied Maulet (73) Deptied Ma	
th need	3			
the dep	× 00		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Marrix	2 2 E	<u> </u>	e C-Concentration, D-Depiebon, Fire Soil Indicators. Histie Explandon (A2) Histie Explandon (A2) Histie Explandon (A2) Black Histie (A3) Zem Alacet (A10) (LRR N) Zem Alacet (A10) (LRR N) Zem Alacet (A10) (LRR N) Zem Alacet (A10) (LRR N) Zem Alacet (A10) (LRR N) Zem Alacet (A10) (LRR N) Zem Alacet (A10) (LRR N) Zem Alacet (A10) (LRR N) Zemby March (A10) Zemby Redon (S5) Zemby Global March (S4) Zemby Redon (S5) Zemby Layer (if observed) you'll (Inches) All A11 A11 A11 A11 A11 A11 A11 A11 A11 A11	
20 A	<b>-</b>	<u>8 727</u>	Type C-Concentellon, D-De Hydr's Soil Indicators. Historia (IA) Historia (IA) Historia (IA) Historia (IA) Historia (IA) Historia (IA) Hydrope Suffic (IA) Beach Historia (IA) Suradired Layer (IA) Dephedo Belevo Dark Suffic Jonathy Minea (IS) Auth Dark Surfice (IVI) That Dark Surfice (IVI) Surdy Minea (IS) Auth Cay Minea (IS) Auth Cay Minea (IS) Auth Cay Minea (IS) Surdy Gedon (IS) Surdy Redon (IS) Surdy Redon (IS) Surdy Redon (IS) Surdy Redon (IS) Surdy Redon (IS) Surdy Redon (IS) Freshfelive Layer (II disperved) Type Depth (Inches) Raharita	
escripti 	- "		Type- C-Concenterion, Hydric Soil Indicators. Histin Epipodo (42) Histin Epipodo (43) Histin Epipodo (43) Black Histin (43) Black Histin (43) Black Histin (43) Black Histin (43) Black Histin (43) Black Histin (43) Sandy Macry Mineral Sandy Macry Mineral Sandy Glaped Matrix Sandy Matrix (56) Sandy Redon (55) Sandy Redon (55) Sandy Redon (55) Sandy Histine Layer (7 chies) Type- Depth (Inches) Tage (7 chies)	
Profile D	0-2"	린 [ ] [ ] [ ]	Handle Sang	

### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

	1001 2001		
Investigator(s):	E Kennedy	Section, Township, Range:	832, T10N, R2W
Landom (villetpe, terson, etc.);	egulu pungem	Local Robol (conceve, convex, rone):	tone Stope (%)
Subregion (LRR or MLRA):	LAR N LAT	1	O 725964 Datum:
	0 SZ 1000	ľ	WWI cleanification. none
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Are Vegetation . Soil	or Hydrology at		Are Thomas Chounstanous present?
Are Vegetation Soll	, or Hydrology	Tabunally problematic? (if needed,	<b> </b>
SUMMARY OF FINDINGS - A	Mach site map showing sampli	SUMMARY OF FINDINGS - Attach alte map showing sampling point locations, transacts, important features, etc.	sportant features, etc.
Hydrophylic Vegetation Present?	×		;
Hydric Soil Present? Wedand Hydrology Present?	×  ×  * *	No Aver within a	W-03
Remarks		)    - 	
HYDROLOGY			
Wettand Hydrology indicators:			Secondary Indicators (minimum of two required)
Primary indicators (minimum of one is required, chack all that apply)	squired, check all that apply)		Surface Soli Cracke (96)
Surface Weber (A1)	True Aquello Plants (B14)	Plants (814)	Speracy Vegetated Concurs Bufface (BS)
High White Table (A.2)	Hydrogen Sulf	Hydrogen Sulfide Odar (C1)	Orehings Potlams (B10)
X Salurator (A.5)	× Outland Pt	Outdood (Pricoapheres on Living Roots (C3)	Mose Tries (Mrs)
Weder Martin (B1)	Presence of P	Presence of Reduced from (CAI)	Cry-Season Weer Table (CZ)
Sediment Deposits (62)	CONTRACTOR OF THE CONTRACTOR O	Papers of his recognition of the specifical	Participant Delicone (LAS)
About the car Count (84)	Other (Faller in Personal	in Remerta)	Stated or Stressed Plants (1)
(S) 4000 C COM	;   		X Germonphic Position (D.2)
Inundation Visible on Aerial Imagery (87)	1981		11
Water-Steined Leases (83)			X Minotopographic Rallel (D4)
Aqueto Feure (B13)			FAC-Neutral Total (DS)
Fleid Observations.			
Surface Water Present? Yes	ž	Depth (Inches):	
Water Table Present? Yes	¥		nd Hydrology F
Seturation Present? Yes	₽ ×	Depth (Inches): 4	₽ ×
Describe Recorded Data (stream g	Describe Raccrided Data (bir sam gauga, monitoring wal, serias photos, previous inspections) if available	revious inspections) if evaluable	
Remarks:			! !

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Dominares Test worksheet: Number of Dominart Species The I Are DBL, FACY, or FAC; (A)	Total Number of Dominant Species Across M Strate: (8) Percent Orbital Species	Mulpy by X 1 n 0 0 x 2 x 2 0 0	F.C. goddes 0 x 3 = 0 F.C. poddes 0 x 4 = 0 F.C. poddes 0 x 6 = 0 Column Tollade: 0 A) 0 (8) F.C. poddes 0 DA x 6 = 0 F.C	Pychophytic Vogateleon budsceleon:  X i Freed finish frybophytic Vogateleon  2 - Dominance Test to -507%  4 - Normance Test to -507%  4 - Freed from the second from the second data in Romanica or on second second data in Romanica or on second second	Problematic Hydrophytic Vegetation (Explan)  *addiction of hydro and and welland hydrology mat be reviewed, unless of standards or problematic	Definations of Faur Vegesation Stream.  Tes - Woody junit, transferry (T. 6 on) or Tres in demnise with treast height (TSH), ingestime of height may in demnise with treast height (TSH), ingestime of height Beging - Woody junits, excluding woody when approximate 20 R (6 in) or move in height and less time 3 in, (7 d on) USH.	Brade - Woody paints, excluding woody siens, sproutnessity 3 to 20 R (1 to 5 to 1 th target. Renty - All technolous (non-woody) plants, repartless of eize, and woody plants has then 3.28 R (ast. Woody Vites - All woody vites greater than 3.28 R to Indight.	Hydrophysic Vegetation Present? Ye X to
Absolute Dominant Indicator N. Cover Species States		0 = Total Cores	0 * Total Const		9 = Total Cover 30 Y FACW 25 Y OBL		62 = Total Cover	0 = Total Cover
n.Brata (Pot day V)		odno Statum. (Pin Box. 15	rub Strikun. (Phu Ster. 16.)		Chick abec 5 )	Rangroute ap Symphotichem ap. Genesium ap		cost Upa Sistem (Ptel sten 30)

Eastern Mountains and Predmont - Version 2

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	Remerks				=Metrix.	rate Soils	£ _		(F19)	CTF121				pus uopere	Teen.			×	
					ore Uning M	robiemente H	Z om Muck (A10) (MLRA S47) Coest Prairie Redox (A18)	, 148)	Plechnord Floodplain Soils (F19)	Very Shaltoe Dark Surface (TF12)	Other (Explain in Remerks)			drophytic was	wedend hydrology must be present, unless disturbed or problematic.				
sence of Indic	Tentura	chryfoen	ctayloam		*Location: Pt.» Pore Uning M=Metrix.	Indicators for Problematic Hydric Boils*	Committee Park	(ME.RA 147, 148)	Pledmort Floodpla	Very Shallo	Ogher (Exp			*Indicators of hydrophytic vegetation and	State of the contract of the c			Hydric Boll Present?	
offen the et	rog	2	# N	111			87								• •				
Cattor or co	Type	ů	٥	$\{\}\}$	8		MLRA 167.	A147, 148)					Z) (LRR H.	(34, 122)	19) (MLRA 14 LRA 127, 147				
ent the Ind	Redox Features	•	8		ed Sand Gra		7) Burface (S8)	Ca (SQ) (MLR	learin (FZ) Fan	face (FB)	urbeca (F7)	One (F6)	Masses (F1)	(F13) (RLPA	ortel (F21) (M	.			
meded to docum	Color (moist)	5YR 4/6	10YR6/8		ad Mathix, MS-Mesk		Dent Burface (S7) Polyvatus Befor Burface (S8) (MLRA 147.144)	Thin Dark Surface (SQ) (MLRA147, 148)	Loamy Glayed Mainte (FZ)		Depleted Dark Surface (F7)	Redox Depressions (FS)	HOT-Manganese Masses (F12) (LRR M. MLRA 136)	Umbric Surface (F13) (RGJRA 134, 122)	Red Parent Metantel (F21) (MLRA 127, 147)				
the depth	j	8	8		RM=Reduc		•	• •	•	•		•		•	•	•		11	Į.
Profile Description" (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	Mairte Color (moint)	7 SYR 4/1	7 SYR 671		Type: C=Concerpration, D=Depletion, RM=Reduced Maths, MS=Meeked Sand Grains	Caldons	) den (AZ)	(5.4)	(A-4) op (A-4)	2 cm Mack (A10) (LRR IS	Depleted Below Dark Surface (A11)	Thick Dank Surface (A12)	Sandy Mucky Mineral (81) (LRR N, MLRA 147, 148)	Sandy Glayed Matrix (84)	ne (55) ethe (56)		r (if observed)		
Profile Descrip	Depth (Inches)	I	21-		Type C=Conce	Hydrie Boil Indicators:	Hatteed (A1) Hatte Enloadon (A2)	Black Hielic (A3)	Hydrogen Sulide (A4)	2 cm Muck (	Deposited Be	Thick Dent.	Sandy Mucky Miner MCRA 947, 1481	Sandy Gay	Stripped Matrix (S6)		Restrictive Layer (if observed)	Depth (Inches):	Remarks

### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont	Mountains and Piedmont	VEGETATION (Five Strats) - Use scientific names of plants.
Naject Siet. South Field Energy Interconnection FeoRitee City County. Nedean Twp , Columbane Co.	, Columbiane Co. Bempfing Date: April 29, 2015	Absolute Dominard
Tetra Tech		souther 30
resettgator(s): E Kernedy Section, Township Range:	Range: 832, T10N, R2W	
ot, terson, etc.): hillstope Local	Publ	3. Quertus ette
1	0 72688 Detu	
BkE - Berks charmery silt loam, 25 to 40 percent alones	NWI cleanification:	
conditions on the ake typical for this lims of year?	7	1
ra Vagatefon	el Croumstances	80 = Total Cov
Sold to Marketon and contribution	Yes X No	Species Statuts (Pict Stree, 15)
IUMMARY OF FINDINGS - Attach sits map showing sampling point focations, transacts, important features, etc.	acts, important features, etc.	3
No X Yes No X		*
	× St	
1		1000000
		1
pland forest. Original name exept4.		
		A streeting room
TOROLOGY		
Vedland Mythrology Indicators	Secondary indicators (minimum for two monators)	
there indicates (minimum of one is section), check at the goods	Shakers Soll Create (B6)	
Surface Wells (A1) Thus Aquelic Plants (B14)	Sparsely Vapolished Corcess Burlium (SE)	35 # Total Cov
High Wister Table (A.2)	Drabnage Patterns (810)	ı
j	Mose from Lone (B16)	
1	On-Season Water Toble (C2)	2 Medinality additional 15 Y
<u> </u>	Conjuly Burnes (CB)	
]	Statuted on Visible on Aerial Imagery (CS)	tchoides 6
Age and of Charle (94)	Shrinked or Streetered Plants (D1)	April 20
food department (1997)	Constitution of the Consti	N de arche
Water Started Leaves (69)	Mecokopographic Reliate (D-0	
Agenth Pours (B13)	FAC-Neutral Test (DS)	
		ta
		= :
X OZ		44
resertiable Present? Yes No X Depth (Inches):	Wedland Mydrology	ı
Antargon Present 7 fee No X Legal (notable) Colored (notable)	~  *  *	
heoribe Recorded Date (streem gauge, munitoring well, serial phobos, previous trapections). If a veilable		7
Januarius;		
		0 Total Cov
		Remarks (include photo numbers here or on a separate sheet.)
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		US Army Corps of Engineers
S Amy Corps of Engineers	Essiem Mountain and Pledmont - Version 2.0	

Phd State   15   15   15   15   15   15   15   1					
(PM Shee 19 ) 50 vv		Absorate	Dominant	-	Dominance Test worksheet:
PM State	Potebe	* Cover	Specient?	- 1	
(PM Shire 19 )	Plunus seroting	R	۲	FACU	6
Phu State	Querous rubra	£	>	FACU	
Phi State   15   15   15   15   15   15   15   1	Quercus aibe	9	z	FACU	Total Number of Dominant
(PM Shre 15 ) 60 = Total Cover (PM Shre 15 ) 60   Total Cover (PM Shre 15 ) 6   Total Cover (PM					*
(PM Shee 19 ) 0 = Total Core   (PM Shee 19 ) 0 = Total Core   (PM shee 19 ) 0 = Total Core   (PM shee 6				-	
(PM State 19 ) 0 = Total Cores (PM State 19 ) 0 = Total Cores (PM State 19 ) 0 = Total Cores (PM State 5 ) 1					
(PM State 15 ) = Total Cover (PM State 15 ) = Total Cover (PM State 15 ) = Total Cover (PM state 15 ) =					¥000
(PM State 19")  (PM State 19")  (PM state 19")  (PM state 6")  (PM	i	8	■ Total Cove		
PM Star 19 0 = Total Core   PACU   PA	Potsber	_			
Plot State 15 0 1 Total Correct Plot State 15 0 1 Total Correct Plot State 15 0 1 FACU  STATE 15 0 1 FACU  S					% Cover of
(PM Star 19 )					֧֓֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֡֓֓֓֓֓֓֡֓֓֡֡֓֓֡֡֡֓֓֡֡֓֓֡֡֓֓֡֡֡֡
(PM Star 19 ) 0 = Total Cores (PM Star 19 ) 0   PACU   PAC					֭֭֭֡֟֝֞֝֟֝֟֝֟֟֝֟֟֟֟֟֟֟
(PM State 15 ) = 10at Coret (PM state 6 ) = 10at Coret (PM state 6 )					8 × 3
PM State 15 30 * Total Control  PM State 15 30 Y FACU  S * Total Control  S * N FACU  S *		Į	1		145 x 4=
(PM State 19 ) 0 = Total Core   (PM state 6 ) 15					0 × 0
(PM State 19 ) 0 = Total Cores  (PM state: 6 ) 16		ĺ			150 (A) 566
PM State 15" 39 Y FACU  5 N FACU  6 N FACU  6 N FACU  6 N FACU  6 N FACU  6 N FACU  6 N FACU  6 N FACU  6 N FACU  6 N FACU  6 N FACU  6 N FACU  6 N FACU  6 N FACU  6 N FACU  6 N FACU  7 N N N N N N N N N N N N N N N N N N		٥	= Total Cove		
Phi dear   F ACU   PA	(Plot Street	_			Prevalence Index = B/A = 3.99999987
(PN4 electric 6) 16 N FACU  (PN4 electric 6) 16 V FACU  (PN4 electric 6) N FACU  (PN5 electric 6) N FACU  (PN5 electric 6	Pruns serotine	*	*	FACU	
(PM elec. 6 ) 16 V FACU 15	Quencus rubra	•	2	FACU	Hydrophyde Vegetation indicators.
(Pix sleax 6: ) 15 = Total Cores (Pix sleax 6: ) 15   Y   FACU (Pix sleax 6: )   FACU (Pix					1 - Rapid Teet for Hydrophytic Vegetation
(PM elex: 6 16 V FACU  15 V FACU  15 V FACU  6 N FACU  16 N FACU  16 N FACU  16 N FACU  16 N FACU  16 N FACU  16 N FACU  16 N FACU  16 N FACU					2 - Dominance Teel is >60%
(PNz elex; 6 ) 16 × FACU 15 × FACU 15 × FACU 15 × FACU 15 × FACU 15 × FACU 15 × FACU 17 × FACU 1					3 - Prevalence Index is 43.0
(Pht size: 6 ) 35 = Total Corest  15					4 - Morphotogical Adeptitions (Provide supporting
(Plot elect. 6 ) 35 " Total Cover Co			Ì		
15 Y FACU  15 N FACU  6 N FACU  7 N PACU  16 N FACU  17 N NO	(Physical article)	*	* Total Cove	_	Problematic Hydrophylic Vegetation (Explain)
15 Y FACU 6 N FACU 6 N FACU 1 N F	    -	. =	>	FACU	The second secon
6 N FACU 6006es 6 N FACU 7 N NO 7 1 N NO 7 1 N NO 7 1 N NO 7 1 1 N NO 7 1 N	Nedvelus altissime	₽	>	FACU	be present, unless disturbed or problematic.
6 N FACU 1 N ND 1 N ND 1 1 N ND 1 N ND 1 N ND 1 N ND 1 N ND 1 N ND 1 ND 1	Alterta periolera	<b> </b>	Z	FACU	Definitions of Four Vegetation Strate:
6 N N NO NO NO NO NO NO NO NO NO NO NO NO	Polyatichum acroatichoidea	•	2	FACU	Tree - Woody plents, excluding vines, 3 ts. (7.6 cm) or
1 N NO	Claytonia virginice	9	2	FAC	more in diameter at breast height (DBH), regardless of height.
46 * Total Cores	Pubus ap		ž	9	Bapiling - Woody plants, excluding woody vines, aproximately
46 a Total Cover					(6 m) or more in height and less than 3 in. (7 6 cm) DBH.
45 - Total Cover					Elenah - Woody planta, accluding woody vines, aproximately 3
48 - Total Cover					R (1 to 5 m) in height.
46 = Total Cover					Herb - All herbacecus (non-woody) plants, regardless of size, and senety rises than then 3.34 that
46 = Total Cover					
ş		1			Woody Vines - All woody vines greater than 3.25 % in height.
1	1	•			

Sempling Point

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×

Hydrophytic Vegetation Present?

SOIL		Sampling Point: 7
escription	(Describe to the depth needed to document the indicator or confirm the absence of indicators.)	absence of indicators.)
(Inches) Color (moist)	% Cotor (molet) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remerts
0-3 10YR 4/2		med
3-9 10YR64	100	loem
9+ refusal		
r. C=Concentration, D=Depiction	Type C-Concentration, D-Coppellon, RateReboard Matrix, M9-Mashed Sand Grain.	*Location: Pt.s Pore Lining Marketin.
Hydris Boll Indicators.		Indicators for Problematic Hydric Bolis <sup>3</sup> -
Helosof (A1)	Cent Surface (ST)	2 cm Muck (A10) (MLRA 147)
Mance Epipedion (n.c.) March Hatte (A3)	This Dark Surfece (SS) (All RA447, 144)	CHILDRA LAT. 4440
Hydrogen Suffide (A4)	Loamy Glayed Machic (F.2)	Pledmont Procipies Solle (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 134, 147)
2 cm Muck (A10) (LIBR N)	ļ	Viery Shallow Denk Surface (TF12)
Departed below Carr. Surrace (A11) Thick Dark Surface (A12)	(1) Depress Derr Suntati (F7) Redox Depressions (F8)	Const (Explain in Namenta)
Sendy Mucky Mineral (S1) (LRIR M.	] [	
MLRA 147, 148) Sandy Glayad Matrix (S4)	MLRA 136) Umbric Surges (F13) (IMLRA 136, 122)	And calons of hydrophytic vacabilities and
Sandy Radox (SS) Sarpped Matrix (SS)	Predmont Floodplain Soite (F19) (NLRA 148) Red Parent Malendal (F21) (MLRA 127, 147)	welfand hydrology must be present, unless disturbed or problematic.
Cobserved)*		
Depth (Inches):	-	Hydric Soll Present? Yes Ho X
generate.		

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region III. Faul Courses from the FOLIGY And term from the Inhama. (A.

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegelation Present?  Western Hydrophytic Vegelation Present?  Western Hydrophytic Vegelation Present?  Western Hydrophytic Vegelation Present?  Western Hydrophytic Vegelation Present?  Western Hydrophytic Vegelation Present?  Western Hydrophytic Vegelation And Western Hydrophytic Vegelation Concern Scriptor (24)  Western Hydrophytic Vegelation (24)  Western Hydrophytic Vegelation (24)  Western Hydrophytic Vegelation (24)  Western Hydrophytic (25)  Western Hydrophytic (26)  Western Hydrophytic (26)  Western Hydrophytic (26)  Western Hydrophytic (27)  Western Hydrophytic (28)  Western Hydrophytic (29)  Western Hydrophytic (29)  Western Hydrophytic (29)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (27)  Western Hydrophytic Managery (28)  Western Hydrophytic Managery (28)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Western Hydrophytic Managery (29)  Wester	FFINDINGS — Attach site map showing sampling point location present?  Yes No No No No No No No No No No No No No
ory Present?  Yes No No Depth (nches)  1 (13)  1 (14)  1 (15)	Trig S- 4.  Trig S- 4.  Trig S- 4.  Trig S- 4.  The Aquate Pharts (314)
ogy findicators  3. (infiltrum of one & treatived check at that activit  1 abe (A2)  1 byte open Suite of Desir (814)  1 byte open Suite of Desir (814)  1 byte open Suite of C(2)  2 byte open Suite of C(3)  2 byte open Suite of C(3)  2 byte open Suite of C(3)  2 byte open Suite of Desir (61)  2 byte open (62)  2 byte open (62)  2 byte (Explain in Remarks)  3 byte on Aorias Imagery (87)  4 byte open (62)  4 byte open (62)  4 byte open (62)  4 byte open (62)  4 byte open (62)  4 byte open (62)  4 byte open (62)  4 byte open (62)  4 byte open (62)  4 byte open (62)  4 byte open (62)	ogy fruitcators  3. (Chilmum of one & required check at their acted)  1. The Aquelor Plants (814)  1. The Aquelor Plants (814)  1. The Aquelor Plants (814)  1. The Aquelor Plants (814)  2. The Aquelor Plants (814)  3. The Aquelor Plants (814)  4. The Aquelor Plants on Living Roots (C2)  4. The Aquelor Recurron in Tilled Sods (C6)  5. The Aquel Surface (C7)  5. The Aquel Surface (C7)  5. The Aquel Surface (C7)  5. The Aquel Surface (C7)  6. (B4)  6. (B4)  7. The Aquel Recurrent Indian In Remarks)  6. (B4)  6. (B4)  7. The Aquelor Plants Surface (C7)  6. (B4)  7. The Aquelor Plants Surface (C7)  6. (B4)  7. The Aquelor Plants Surface (C7)  7. The Aquelor Plants Surface (C
Weisbard Hydrology Indicators	Weitiand Hydrology Indicators  Primary Indicators  Primary Indicators  Primary Indicators  Primary Indicators  Primary Indicators  Surface Water (A1)  Surface Water (A1)  The Aquatic Plant (B14)  Surface Water (A1)  Water Maria (B1)  Surface Water (A1)  Water Maria (B1)  Surface Water (A1)  Water Maria (B1)  Surface Water (B1)  Surface Water (B1)  Surface Water (B1)  Surface Water (B1)  Surface Water (B1)  Surface Water (B1)  Surface Water (B1)  Surface Water (B1)  Water Maria (B1)  Water Maria (B1)  Thin Marc Surface (C7)  Water Maria (B1)  Field Observations  Surface Water (B2)  Water Table (B2)  Water Table (B2)  Water Table (B2)  Water Table (B2)  Water Table (B3)  Water Table (B2)  Water Table Present?  Ves Mo Doph (Inches) (I)  Water Table Present?  Water Table Present?  Ves Mo Doph (Inches) (I)  Water Table Present?  Water Table Present?  Ves Mo Doph (Inches) (I)  Water Table Present?  Water Table Present?  Ves Mo Doph (Inches) (I)  Water Table Present?  Water Table Present?  Ves Mo Doph (Inches) (I)  Water Table Present?  Water Table Present?  Ves Mo Doph (Inches) (I)  Water Table Present?  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Table Present.  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Present.  Water Table Present.
Pilitiger infections (militimum of one k treatised cheest at that acted)	Primary indicators (arbitroum of one is presented cheeck at that activity)  Surface Water (A1)  Surface Water (A1)  The Aquatic Plants (B14)  Surface Water (A1)  The Aquatic Plants (B14)  Submary Vegetated Conciene Surface (B15)  Submary Vegetated Conciene Surface (B10)  Submary Vegetated Conciene Surface (B10)  Water Water (A1)  The Mack Surface (C2)  Again May or Cheel (B1)  The Mack Surface (C7)  Aquatic Plants (B14)  The Mack Surface (C7)  Aquatic Plants (B15)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)  The Mack Surface (B16)
Solution Waler (A1)	Solution Water 18th (14)
Light Water Table (A2)	Control   Cont
Weer Maris (81)  Sedement Deposits (82)  Presents from Present of CA)  Presents from Present of CA)  Weer Maris (81)  Presents from Present of CA)  Weer Table (CA)  Presents from Present of CA)  Weer Table (CA)	Welter Warts (B1)
Sediment Deposite (8.2)	Sediment Deposits (82)
	— Drift Deposits (8.3) — Agair Mais or Chest (8.4) — Agair Mais or Chest (8.4) — Agair Mais or Chest (8.4) — And Mais or Chest (8.4) — And Mais or Chest (8.4) — And Mais Salve (8.5) — And Chest (8.4) — Agair Salve (8.5) — Agair Salve (8.5) — Agair Salve (8.5) — Agair Salve (8.5) — Agair Salve (8.5) — Agair Salve (8.5) — Agair Salve (8.5) — Agair Salve (8.5) — Agair Salve (8.5) — Agair Salve (8.5) — Agair Salve (8.5) — Agair Salve (8.5) — Agair Mais or Chest (8.5) — Agair Ma
Statistica of Suessad Plents (D): Commophic Prostation (D2) Stadew Aquitant (D3) Microtropysphic Rober (D4) FAC Memoral Test (D5) FAC Wester (Test (D5))	Statistical of Stressed Plants (D)) Commonthic Prosition (D2) Student Agustard (D2) McCubroographic Relate (D4) ACC. New Red Test (D5) Acc. Present? Yes.
Controping Control (27)  Merchopographic Rober (DA)  FAC Merces Test (DS)  FOR Merces Test (DS)	Courterpart, Control (2)  Neuropaphe Robe (54)  McCherel Test (05)  FAC Werest Test (05)
Werderpographic Relied (D4) FAC Merkel Test (D5) FOOT Present? Yes X	Merokopographic Radas (D4) AG. Merakal Test (D5) GOTO Present? Yes.
Kit. Merinal Test (DS)	FAC Wester (DS)
logy Present? Yes	bory Present? Yes.
logy Present? Yes	Conv Present? Yes.
logy Present? Yes X	boov Present? Yes. Y
	1
Describe Renorded Date (stream gauge monitoring well aerial photos, previous inspections) if available	Describe Remoder Date (stream gauge monitoring well serial photos, precious inspections) if available

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£3 3 - Prevalence Index is 53 0\*
4 - Morphological Adepositors (Provide supporting
date in Remarks or on a separate street) Trae – Wrody plants excluding whee, 3 in (7 6 cm) or more in dismerer at bress I height (DBH), regardless of height Morb.—All herbacours (non-woody) plants regardless of size, and woody plants less than 3.28 it tail. 3 **@** Supling/Shrub - Woody plants excluding wher, less than 3 in DEH and groster than or oqual to 3.26 ft (1 in) tail. Woody vine + All woody vines greater than 3 28 ft in helpful \*indicators of hydric soll and welland hydrology must be present, unless disturbed or problemate. Problematic Hydrophytic Vegelation (Experim) Sampling Point Se-8
Dominance Test workshoot 1 Ravid Test for Hydrophylic Vegelation 2 Diominence Test is >50% Matter by 100 \_ x2. , x ; ... Definitions of Four Vegetation Strate. 2 3 , x . Prevalence Index - B/A -Hydrophytic Vegeta, for Indicators <u>با</u> پر Number of Dominant Species That Are OBL, FACW, or FAC. Prevalence Index worksheet. Percent of Dominani Species That Are OBL, FACW, or FAC Total & Cover of Total Number of Dominant Species Across All Sirata. FACIV spacies Column Totals. FACU species DBL species Hydrophytic Vegetation Present? FAC species UPL species Absolute Cominant Indicator 102 - Total Cover 20% of folal cover 2.0 = Total Cover 20% of total cover · Total Cover 20% of total cover 20% of lotal cover. VEGETATION (Four Strats) - Use scientific names of plants. Remarks. (Include photo numbas here or on a separate sheet) Woody Vine Stratum (Piot stre 30) 50% of lotal cover-50% of total cover. Septimo/Straub Stratum (Piot size, 15) Tree Statum (Plot size 30"

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# WETLAND DETERMINATION DATA FORM - Easiern Mountains and Piedmont Region

dison 1944 (Alistratismas Sampling Date: 14 NON 2015 State DA Sampling Date: 58-4		F. LAV. Stope (16):	5221 Detum WES 84	M chassification: N in	colein in Remarks.)	Are Homal Chamstances' present? Yes	(Kinedad, explain any answers in Remarks.)
Propositive South Fills Fills on Interconnective Falling County Medican Date Collection Commission Date. 24 NOV 2015 Applicant Owner Feet Fresh Fresh Sample South Series Of Samples Det Samples Posite Series Fresh	Investigatoris) 14717 Et 1970 F.K., 1970 F.K. Section, Township, Range	Local relief (concave convex, none); (A	40.546043 Long - 80 72(	SOF MAD LINE NAME: BLE-BLE CHAINTELING SIT PORTY, 25 to 400% SIgns Windowstraton NIN	Are climatic i hydrologic conditions on the site typical for this time of year? Yes	significantly disturbed? Are Wormal Orcum	
tild Fragy Introdus	n Edmire, Mam Gi	terrace, etc.). dcm/25[ (thm	MRA) 188 N 120 LM	BLE-BOTH CHAINEM	ogic conditions on the site typical for	Are Vegetation Sol or Hydrology significantly disturbed?	Are Vegetation Soil or Hydrology neturally problematic?
Projectistic Soviet FILLE FILLE Applicantowner Telter Titch	Investigator(s) (4:1)	Landform (hillstope,	Subregion (LRR or I	Soff Map Unit Name	Are climatic / hydrol	Are Vegelation	Are Vegetation

SUMMARY OF FINDINGS – Attach site map showing sampling point tocations, transacts, important features, etc.

Hydrophytic Vagatation Present? Yes No Is the Sampled Area Yes No Is the Sampled Area Within a Westend? Yes No Is the Sampled Area Westend Hydrobogy Present? Yes No Is	Yes <u>Y</u> 60
perm along mouth of S-7	
One is required, check all that abody.  The Aquelle Plants (B14)  Hydrogen Suffise Odor (C1)  Ordized Ribrospheres on Living Roots (C3)  Presence of Reduced from (C4)  Recent from Reduced in (C4)  Recent from Reduced in (C4)  Thin Mark Surface (C7)  Other (Explain in Remerts)	Scorndary Indicators (intrinsurated two usouless) Surface Soft Creacts (Soft) Surface Soft Creacts (Soft) Surface Soft Creacts (Soft) Drainage Patterns (B10) Dry-Season Wester Table (C2) Carytins Burrows (C9) Schureton Victors on Aeries thragery (C9) Surhad or Surface (Bents (C1) Comparity Prostion (C2) Shakow Aquisant (C2)
Aqualic Paragraphics.  Surface Water Present?  West Table Present?  Ves No Depth (Inches)	FAC-Heatrel Test (DS) Wetland Hydrology Present? Yes X No.

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VEGETATION (Four Strate) - Use scientific nemes of plants	nnes of	plants.		Sampling Foint 5P-9
Tree Statum (Prof stree 20.	Absoluts % Cover	Dominant Indicator	Sizius	Donatrance Test worksheet: Number of Dominent Species 2 That Are Dill. FACW, or FAC.
2				l u
, , , , , , , , , , , , , , , , , , , ,				2   S
6.				
50% of total cover	20% of	Total Cover 20% of total cover.		OBL species x1 •
SatingStrib Statem (Piot size, [5]		ļ	1	FACM species x2 = YAC species x5 = x5 = x6
3				
N 4			$\overline{\prod}$	Column Totals (A) (3)
4				Prevalence Index = 8.4 =
3				1 - Rapid Test for Hydrophyde Vegesaton
6				2 - Dominance Test is >50%
EO% of total cover	20% of	20% of total cover		
싫	. ;	ŧ	]	data in Remerks or on a seperate sheed
1. POR DAINSTH'S	2	+	3	- Problematic Hydrophytic Vegelation' (Expirain)
s Ecum Virginamum	49,	1		Indicators of hydric soll and wellend hydrology must be present, unless disturbed or problematic.
5 Hay row & Sp	กเก	zz	y z	Definitions of Four Vegetation Strata.
7				Thes - Woody plants, excluding wines, 3 hr. (7.6 cm) or more in dismeter at breast height (DBH), regardless of height.
10			$\overline{\prod}$	Sapling/Shrub – Woody plants, excluding whee, less then 3 in. DBH and greater than or equal to 3.28 it (1 in) set.
14	4	٠	:	Herb - All herbaceous (non-woody) plants, regardess of size, and woody plants less than 3.28 it set.
Woody Vine Straum (Piot size, 20"	- 20% of	20% of total cover	٠	Woody vine – All woody vines greeier than 3.28 ft in Teight.
2			$\overline{\prod}$	
			Π	Hydrophylle
50% of total cover		Total Cover		Vegetation Yes X No
Remarks. (include photo numbers here or on a separate sheet)	1			

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Sampling Point 5P-9

		· · · · · · · · · · · · · · · · · · ·		
Sampling Point: 58-8	Technology Semants  Technology Semants  Class of Agents	**Modelors Pt-Pere Linkg Makkeits  **Indicators for Problematic Hydric Soils**  - 2 cm Mack (A10) Bit RA 147)  - Coast Peribane Redor (A10)  - Peribane Roodpie Soils (F10)  - Peribane Roodpie Soils (F10)  - Way Shallow Dark Surface (F12)  - Other (Explain is Rements)  - Other (Explain is Rements)  - Wedfielors of hydrophytic vegetation and  wedland hydrology must be present,  unless diskurbed or problematic.	Hydric Sod Present? Yes X No	
	Profile Description: (Describe to the despin readed to document the tratector or confirm the stratege of indicators).    Description: Color (most)	25 F. R. R. R. R. R. R. R. R. R. R. R. R. R.		
SOIL	Profile Description: Chescrips to the dept Depth Melitz    O-2 <sup>th</sup>   10 YK 3 2   10 C	Type C-Concentration, D-Depletion, RN=Reduced Methy, Ms=Messived Sand Greens Hydric Soil notice form.   Dark Surface (S7)   Histored (A1)   Histored (A2)   Histored (A2)   Histored (A2)   Histored (A2)   Histored (A2)   Histored (A2)   Histored (A3)   Thin Dark Surface (S9) (MLR 147, Straked Layers (A4)   Thin Dark Surface (S9) (MLR 147, Straked Bear (A15)   Thin Dark Surface (F3)   Depleted Bear (A15)   Redoct Depressors (F3)   Thin Dark Surface (F3)   Thin Dark Surface (F3)   Redoct Depressors (F3)   Redoct Depressors (F3)   Redoct Depressors (F3)   Redoct Depressors (F3)   Redoct Depressors (F3)   Redoct Depressors (F3)   Redoct Depressors (F3)   Redoct Depressors (F3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   Redoct Market (A3)   MLA (A3)   Restrictive Layer (If observed).	Type: Coepti (inches) Remarks	

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Projectsing South Fitte Entraig Softs Cornitation Passisty Neglison Temp Columbianous come 24 Nev 2015 Applications of the Semples over 50-10		Stope (%)	Detum MES 84	Hor: 13 1	merits.)	Are "Normal Circumstances" present? Yes X No	s in Remarks.)
Nedison Trop   Columbiana State: OH	mship, Ranger	cave, convex, none)(QD_(A1/)	Long80.76807	Soll Map Link Name BKE - BOXX CHANTERN SIF FORM, 25-4016 SIGO CA NIN CASSINGHOR WITH	Are climatic / hydrologic conditions on the sile typical for this time of year? Yes 📉 No (if no. explain in Remarks.)	Are "Normal Circumstances" pr	(If needed, explain any answers in Remarks.)
ntehen Fatility alycoung	emestyphonys) AMI BIMBYC, MAYM CIMMONS Section, Township, Range	MWW/Webcal relief (con	,40 PH5928	N SILF LOOM, 35-41	or this time of year? Yes	Are Vegetation Soil, or Hydrology significantly disturbed?	Are Vegotation or Hydrology naturally problematic?
Trengy Introm	insert, Mary 6	etc) depression	120 N 1210 LX	- BOYL CHORNE	dhons on the sile typical f	ar Hydrology	or Hydrology
Projectishe South Filld Enkings. ApplicantOwner Teth	MONTHS) AMIN BI	m (hillstope, terrace	on (LRR or MLRA)*	p Unit Hame BKE	natic / hydrologic cor	Modern Sol	octation Sol
Project	TW8-SU	Lendfor	Subreg	SolMa	Arech	Are Ver	Are Ve

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

Hydrophytic Vegetation Present? Hydric Soll Present? Wellend Hydrology Present?	****	0	is the Sampled Area within a Wetland?	Wettand Wit
PEM along 5-5.				
HYDROLOGY				
Wettand Hydrology Indicators.				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is received, check all that apply).	one is recuired, check	s all that books		<ul><li>Surface Soil Cracks (B6)</li></ul>
Surface Water (A1)	<b>!</b>	True Aquatic Plants (814)	910	Sparsely Vegetated Concave Surface (B8)
L Saturation (A3)	<b>1&gt;</b> 1	<ol> <li>Hydrogen Suffice Odor (C1)</li> <li>Oxidized Rhizospheres on U</li> </ol>	Hydrogen Suitide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	Lizarinege Patients (B10)
Water Marks (B1)	<b>!</b>	Presence of Reduced from (C4)	from (C4)	Dry-Seeson Water Table (C.2)
Sedfment Deposits (B2)	1	Recent Iron Reduction in Tilled Soils (C6)	n in Tilled Solls (C6)	Crayfish Burrows (CB)
Drift Deposits (B3)	1	Thin Muck Surface (C7)	£	Saturation Visible on Aerial Imagery (C9)
Argel Met or Crust (B4)	1	Other (Explain in Remarks)	verts)	Sturried or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aerist Imagery (B7)	Imagery (B7)			Shallow Aquitand (D3)
Water-Staned Leaves (89)				Microkopographic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral Test (DS)
Fleid Observations				
Surface Water Present?	Yes No Yes	Depth (Inches)	-	
Water Table Present?	Yes No K	Depth (inches)		:
Saluration Present?	Yes - X 180 -	Depth (Inches)	Wettend	Wetland Hydrology Present? Yes X No
uncticos capieray minte). Describe Recroted Data (stream gauge, monitoring well, aerial photos, previous inspections), if evaluable	gauge, monitoring w	rell, awrial photos, pre	vious inspections), if aw	Hable-
Remarks.				

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VEGETATION (Four Strats) - Use scientific names of plants.	of plants.		Sampling Point 5 10
se Stratum (Plot stree 20"	Absolute Dominant & Cover Species?	Sizits	Dominance Test workstreet: Number of Dominant Spedes That Are OBL, FACM, or FAC. (A)
2. 2.			Total Number of Dominant Species Across All Strats: (B)
9			Percent of Denhant Species 107-019 (AB)
0% of total cover	20% of lotal cover		lex workshaes
Seather Statem (Prostor 15 15 15 15 15 15 15 15 15 15 15 15 15	7	EDEM	FACW species x2= FAC species x4=
3			
		II	Prevalence Index = B/A =
9			1 - Paylol Test for Hydrophytic Vegetation 2 - Donnhamer Test is x50%.
	- Total Cover	٠.	3 - Prevalence Index Is 53.0°
50% of total cover 1.7	26% of total cover	0	dots in Penalts of on a separate sheet
on palustrus	7	<u>₩</u>	Problemetic Hydrophytic Vegetation* (Explain)
Scipus Saturdans	+ <del>2</del> 2	# 18 14 18 14	Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic. Definitions of Four Venesation Strate.
, , , , , , , , , , , , , , , , , , ,			The – Woody plents, exchading whee, 3 h. (7 6 cm) or more in dismeter at theses height (DBH), regardless of height.
8 8 10			Set*Ing/Strutb – Woody plants, excluding whee, less than 3 in. DEH and greater than or equal to 3 20 it (1 in) tell.
50% of total cover U	82 - Total Cover 20% of total cover	4	Herb – All herbacsons (non-wood) panis, regardless of size, and woody plants less than 3 28 hist. Woody whe – All wordy whes means than 3 28 his
MODOY, Who Stratum (Prot size 274 )			- Legaci
3		$\overline{\prod}$	
		$\overline{\prod}$	Hydrophytic Vegelation
50% of total cover 201	20% of total cover		
Remarks. (Include photo numbers hare or on a separate Sheet.)		1	

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The absence of indicators)  Lexure Selling U  It	Ageation: Pt Pore Library, Marketts, indicators for Problematic Hydric Solist*, 2 to Mark, (A10) (MLSA147)  2 to Mark, (A10) (MLSA147)  2 to Mark, (A10) (MLSA147)  (MLSA147) (MLSA147)  (MLSA134, 147)  (MRL A	
Profile Description (Describe to the deepth needed to document the indicator or confirm the absence of indicators)    1	Proper CCennestrellon, D-Deptelon, RM-Recticed Moffin, Mis-Masked Sand Gribis 100 Hebroard (A)  Hebroard (A)  Hebroard (A)  Hebroard (A)  Hebroard (A)  Hebroard (A)  Hebroard (A)  Dark Surface (S9) (MLRA 147, 148)  Black Hebr (A)  Strenford Layer (A)  The Dark Surface (S9) (MLRA 147, 148)  Dropleted Dark Surface (F9)  Strenford Layer (A)  Strenford Layer (F9)  Strenford Layer (A)  Dropleted Dark Surface (F9)  Sandy March (March Meneral (S1) (LRR N, March March (F9)  Sandy March Meneral (S1) (LRR N, March March (F9)  Sandy Rector (S5)  Sandy Rector (S5)  Sandy Rector (S5)  Sandy Rector (S5)  Sandy Rector (S5)  Deptered March (F9)  March 147, 149	
Profile Description (Descripe to the day forces)    0.1	Typer Ca-Centementon, D-Eggletlon, RM- Hydric Soll Indicators.  Hattic Episcent (A2)  Black Heite (A3)  Black Heite (A3)  Black Heite (A3)  Zorn Mack (A10) (LRR N)  Depiscent Suffect (A11)  Thet Dan Suffect (A12)  Sandy Marty Meren (S1)  Thet Dan Suffect (A13)  Sandy Marty Meren (S1)  Sandy Geyen Merite (S4)  Sandy Fedan (S3)  Sattoped Marth (S4)  Typer  Depth (Braches)  Depth (Braches)	

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Proposisia <u>2004 to Federal Interestantestant autologiam Madison tound to tennious des Semples Dates 24 New 2015</u> Asperantonius Interestantes	Landrom Duskopa, Garoca, etc.) hilloling tocal reset (concerns, concerns, concerns). Reput Stope (%) Subregion flore of Marky 1 RE, N 128 Let 40, 645972 Long - 90, 776608 Down 1455 84 Soil May direct name BED - BEYES (Frankfrom), 611 192171, 15-75"/, Stope ( May dessification NIA)	Are climatic / hydrokrajic conditions on the site typical for this time of year? Yes V No (it no, explain in Remarks.)  Are Yesgestion Sold on Alydrodogy Suprishing detailed? Are Yeomed Chrumstances' present? Yes V No visions and the suprishing t
San Tw	2000 - 9 100 S	for Normal
Alach Picci	(concave.	7
200   100	tocal relie 5972 19477,	of year? Ye
HECTION	13 GH	or this time
Introdu	Chlamrie	stle typical y ydrology
Encessor Fech Power, a	REN I	ations on the
Z Z Z	MERAY DED	15 15 3 15 15 1
roject/Site. <u>304</u> kpiczen/Omer 1	Landicine pulsape, terrece, esc.) hillstyle Subregion (LRR or MLRA)   REN 128   L Sol Mep Unit Neme BED - BEYYS (FIGHT)	Are climatic / hydro Are Vegetation

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

Yes	
is the Sampled Area within a Wetland?	
Yes H <sub>0</sub> X	
Hydrochydc Vegetalfon Present? Hydric Soll Present? Welland Hydrology Present?	lipland Forest

#### HYDROLOGY

Wedand Hydrology Indicators		Secondary Independent (minimum of the secondary
Primary indicators (minimum of one is required; check all that apply)	eck of that apply	Surface Soil Cracks (B6)
Surface Water (A1)	Tive Aquatic Plants (B14)	Sparsely Veoetaled Concave Surface (BB)
High Webs Table (A2)	Hydrogen Suifide Odor (C1)	Drahage Patterns (B10)
Seturation (A3)	Oxidized Phizospheres on Living Roots (C3)	
Weler Marks (81)	Presence of Reduced Iron (C4)	
Sediment Deposits (B2)	Recent from Reduction in Tilled Soils (C&)	-
Drift Deposits (83)	Thin Muck Surface (C7)	Saturation Visible on Aerial Impoerv (C9)
Algel Mat or Crust (B4)	Other (Explain in Remarks)	Slunied or Shessed Plants (D1)
from Deposits (BS)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (87)		Shellow Acultans (D.3)
Water-Stained Leaves (B9)		Mittalencersohe Relief (Da)
Aquebic Fauna (813)		FAC Noutral Test (DS)
Fleid Observations.		
- Kas	V_ Depth (inches)	
Water Table Present? Yes No.	Depth (Inches)	
Yes No	C Depth (inches)	Wetland Hydrology Present? Yes No. X
(includes capillary litings)		
Describe Recorded Data (stream gauge, montoring well, earlel photos, previous Inspections), if available:	g well, serial photos, previous Inspect	ions), if available:
Remarks		
No hydrology costrued.		
,		

Eastern Mountains and Piedmont -- Version 2 0

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ata) – Usa scientific na	of plants.		Sampling Point 5P- []
Tree Strain (Pici size: 30 Screen Screen Screen	Society	National Property	Cominance Test worksheet.  Number of Dominant Species That are Oil FACW or SAC
PARTONS PLADIA	ļ	15	(A) - ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
2	Ā	THE L	Total Number of Dombrani Species Across All Strate:
	z Z	1 1 1 1 1 1 1 1 1 1	Percent of Dominant Species 7.0 %
4	1 1		1 [
1	Z - Total Cover		over of: Matter
50% of total cover (2 20%	20% of total cover	<u>-</u>	OBL species 0 x1= 0
1 CAPDING CAPPINIANA 50	7	FRC	
2 Milk Videam			FACU species 39 x4= 356
and the training	-	2	
ić.			1
9			113
8		Ī	1 - Repld Test for Hydrophytic Vegelation
6		Ī	2 - Dominance Test is >60%
33	Total Cover		3 - Prevalence Index is £3.0
50% of total cover. [4	20% of total cover_	20	data in Remerks of on a second data in
ANZEND POR SIDE OF THE STATE OF	>	Š	Professional Hydrochyte Vacatation (Switch)
CHAIN CLOSTICANOLI		4	
ulnate			Indicators of hythe soil and weltand hythology musi to present largest disturbed or parallements
IMOUNTA'S CONTINUED MANA		ر <del>ا</del> ة الق	Definitions of Four Vegeizilan Strata,
6 Gallian Sui	2 2	\$ = \frac{1}{2}	Tree - Woody plents, excluding whee, 3 in (7.6 cm) or
		2	more in diameter at brevst height (DBH) regardless of height.
es	İ		Sething/Shrub Woody plants, exchalter years, less
10		Ī	than 3 in, DEM and greater than or equal to 3,28 in n. mi tall
11			Harb - All harbacteris (non-unrock) clarks monochans
4	ON of total cover	2	of size, and woody plants less than 3.28 it tall
1		Ī	Woody wire - All woody vines greater than 3,28 ft in helph
1,		Ī	
3			
•			Amironimie
		1	
50% of lotal cover 20%	20% of lotal cover		
1000			
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| Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling Point | Sampling P

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Hydrocytic Vegetation Present?  Hydrocytic Vegetation Present?
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90y indicators 3 (Indinium of one is prouted, chesh at that prohib 1945 3 (1947) 1946 40,0 1947 1947 1947 1947 1947 1947 1947 1947
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Finds of the present of the proof of the p
Surface Week (A)  Surface Week (A)  High Wale Mark (A)  Surface Week (A)  Surface Week (A)  Surface Week (A)  Water Marks (B)  Water Marks (B)  Freshore of Reduced from (C4)  Water Marks (B)  Freshore of Reduced from (C4)  Water Marks (B)  Freshore of Reduced from (C4)  Water Marks (B)  Freshore of Reduced from (C4)  Difference of Reduced from (C4)  Water State (B)  Freshore Week (B)  Water State (B)  Water Mark Present?  Water State (B)  Water Mark Present?  Water State (B)  Water Mark Present?  Water State (B)  Water Mark Present?  Water Mark Present Mark Present Mark Mark Mark Mark Mark Mark Mark Mark
Signature   May wheel state   May   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May wheel state   May
Satisface (1.9.)  What Mark (191)  Water Mark (191)  What
Sediment Deposits (82)  Onli Deposits (83)  Other (Explain in Remarks)  Find Other (Explain in Remarks)  Find Other (Explain in Remarks)  Find Other (Explain in Remarks)  Find Other (Explain in Remarks)  Find Other (Explain in Remarks)  Water Salared Learns (87)  Water Salared Learns (87)  Sunder Water Present?  Vest Mo V Depth (Inches)  Salared Water Present?  Wester Table Present?  Vest Mo V Depth (Inches)  Wester Table Present?  Wester Table Present?  Vest Mo V Depth (Inches)  Wester Table Present?  Wester Table Present?  Vest Mo V Depth (Inches)  Westerd Hydrology Present?  Westerd Hydrology Present?  Westerd Hydrology Present?  Westerd Hydrology Present?  Westerd Hydrology Present?
Ordi Deposits (83) Thin Mack Surface (C1) Staireston (Yesbe on Aerial Integery (C9) Surface (C7) Staireston (Yesbe on Aerial Integery (C9) Surface (C1) Surface (C1) Surface (C1) Surface (C2) Surface (
Agai Mat or Crost (84) Other (Explain in Remarks) Sturked or Stressed Plants (01)  Into Outcosts (85) Geomorphic Position (02)  Entertain State (1987) Aquate (1987)  Aquate (1987) Aquate (1987)  Aquate (1987) Aquate (1987)  Aquate (1987) Aquate (1987)  Eikid Observations.  Surface Water Present? Yes No V Depth (Inches) Aquate (1987)  Material Present? Yes No V Depth (Inches) Method (1987)  Method (1987) Again (1987) Again (1987)  Method (1987) Again (1987) Again (1987)  Method (1987) Again (1987) Again (1987)  Method (1987) Again (1987) Again (1987)  Method (1987) Again (1987) Again (1987) Again (1987)  Method (1987) Again (1987) Agai
Secrophic Position (D2) Scolors Applies (D3) Accidence (D3) Accidence Test (D3) Accidence Test (D3) Ogy Present? VestNo
Microbov Kydeke (U.9.) Microbov Kydeke (U.9.) Microbov Kydeke (U.9.) Microbov Kydeke (U.9.) Microbov Kydeke (U.9.) Microbov Kydeke (U.9.) Microbov Kydeke (U.9.)
AC-Neural Test (159) ogy Present? Yes No
ogy Prescut? Yes No.
ogy Present? Yes No.
ogy Present? Yes No.
ogy Present (es
Describe Keranded Jata (stream gauge, monkoning west, eerial phokos, previous bropections), if aveitable.

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Eastern Mountains and Pledmont - Version 2.0

TS.	The state of the s	Sampling Point SP-12
FECETATION (Four Strats) - Use scientific names of plants.	ALTON TOTAL BOARDON AND AND AND AND AND AND AND AND AND AN	(ECETATION (Four Strats) - Use adantific names of plants.

Tree Stratum (Prot stree 301 ) Account		
	Nite Domineral Indicator Dver, Soedes? Status	Duranterior Test worksheer.  Number of Dominant Stedes  That Are OBL, FACW, or FAC.  (A)
3		14
		AC 0%
		Prevalence Index Workshapk
60% of total cores:	20% of total cover	Total % Cover of Multiply by: Obl. species 0 x1 = 0
Sabardovario venum (Pro srec. 10		
5		255.
4°		Column Totals 15 (N) 425 (B) President Print 15:0
, , , , , , , , , , , , , , , , , , ,		1123
7.		1 - Rapid Yest for Hydrophytic Vegetation
0		2 - Donathance Test is >50%
1	- Total Cover	4 - Morphological Adapteticus (Payde successing
DOS OF FORM COVER	20% of total cover	date in Remarks or on a separate sheed
100 Sativa	7	Problematic Hydrophytic Vegetation* (Explain)
2 Larra Durpuv Caril 10	7277	Indicators of hydric soil and welland hydrology must be prosert, unless detected or problematic.
5		Leadingware of your vegetation satisfies
, , , , , , , , , , , , , , , , , , ,		free – Woody plants, excluding wines, 3 in. (7 6 cm) or more in demeter at breast height (DBH), regardless of height.
9 9 10		Septimp/Shrub - Woody plants, excluding whes less than 3 in. OGH and greater than or equal to 3.28 ft (1 m) tell.
11. ES SCOR, of twee cover 4/3 20. Noody Vine Spraum (Plot size, 30.	20% of lotal cover   \$	Herb – Ali herbaciscus (han-woody) pleits, regardess of size, and woody plants less then 3.29 it tall Woody who – Alf woody wires greater than 9.28 it in
1		u Jessey
		Hydrophydd Vedeballon
50% of total cores.	20% of total cover	Present? Yes 10
Remarks. (Include photo numbers hare or on a separate sheet)		

Esstem Mountains and Piedmont - Version 20 LS Army Corps of Engineers

Localitins the absteaces of indicators.)  Localities the absteace of indicators.  Stilt 18/1 PM  Sentation	RA 147, 146)  RA 147, 146)  RA 147, 146)  RA 147, 146)  Cossi Prediction (All Polythe Solity)  Cossi Prediction (All Polythe Solity)  Cossi Prediction (All Polythe Solity)  Cossi Prediction (All Polythe (All Polythe Solity)  Cossi Prediction (All Polythe (All Polyt	Hydric Soul Prosent? Yes No X	
No needed to document the Indicator or Cotor (most)	Reduced Martis, MS:-Maskee Sand Grains, 1:00		
Profile Description: (Descripe to the dapth needed to document the indicator or confirm the absence of indicators).  Doyl Helds School Confirmed Color finals 1.00 Tool 1.00 Statute 1.00 S	Typer C-Concentration, D-Depletion, RAA-Reduced Ments, US-Maskee Send Grains, Hydic Sold Indicenters.  Histic Epipedon (A2) Black Heate (A3) Black Heate (A3) Stratide (A4) Stratide (A4) Stratide (A4) Stratide (A4) Depleted Below Dark Surface (A11) That Dank Surface (A12) Depleted Below Dark Surface (A11) That Dank Surface (A11) Redox Dark Surface (F7) That Dank Surface (A11) Redox Dark Surface (F7) That Dank Surface (A11) Redox Dark Surface (F7) That Dark	1ype Depth (octes) Remarks.	

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

- 1	South Field Energy Interconnection Facilities	City/County Medieon Twp Columbians Co	- 1	Sempling Date:	April 30, 2015	
Applicant/Owner	Tetre Tech		8	Sempling Point. Si	SP-13	
investigator(s):	Brian Slaby	Section, Township, Range:		832, T10N, R2W	***	
Landform (Hakispa, baraca, etc.);	floodplein	Local Roll of (concave, convex, rons):	tone tone		Slope (%):	
Subregion (LPR or MLRA):	LRR W LAC	40 648652 Long:	90 720492	Petra	WGSM	
Soil Map Unit Name BkD - Bertu	BkD - Berks channery sR toam 15 to 25 percent abpes		MWI classification:	   E	none	
Mona algalo	also typical for this time of year?	Yes	No pf na explain in Remerks.)	Remarks		
Ara Vegetation Soil Soil Are Vegetation Soil Soil Soil Soil Soil Soil Soil Soil	or Hydrology	eignificanily dielarbed? Are Phore Y realuraly problematic? (il neoted	Are "Normal Circumstances" present? Yes X No No (Innected, explain any answers in Rements.)	C Description of the second of		
SUMMARY OF FINDRIGS - Attach also map showing sampling point locations, transects, important features, etc.	i alta map showing sampli	ng point locations, transects, in	nportant features	. #		
Hydrophytic Vegetation Present?	X SS.	2			İ	
Hydric Soil Present?	×  :	No.		2		
remain repressing remaining	4	┨	đ-M			
PEM. Original name B8day2 SP8						
		15 15 15 15 15 15 15 15 15				
HYDROLOGY						
Wedand Hydrology Indicators.	:		Secondary In	dicators (minimum	Secondary, Indicators (minimum of two required)	
THE PROCESS (INVESTIGATE OF ONE IS PRODUCED, CHIEF OF USE INCOME.)			   	Burface Soll Coachs (86)		
Man Mater Tate (2.2)	True Aquesto Planta (B14)	March (B14)	-	Sparnely Vagaresed Conc.	Have Burfaza (BB)	
X Salambon (A3)	× Orders (Br	Curtoral Remarkane on Lideo Resis (C.)	\ \	Commando Presento (610)		
	1 1	Presence of Reduced Iron (C4)	1	Dry Seemon Water Tebbs (C2)	ğ	
Sediment Deposits (B2)	Record from R	Recent into Reduction in Tiled Solls (CS)		Crayflah Burrows (CB)		
Dom't Deposite (8.8)	Thin Mout Surface (C7)	mas (C7)		Seturation Vielbie on Aerial Imagery (C9)	Integery (CB)	
Fox Discosite (BS)	Other (Explain in Remarks)	in Remarks)	# 1 S	Sharted or Stressed Plants (D1) December Brailian (D2)	Ē.	
frundsdon Vielbe on Aeriel Imagery (87)			1 1	Shutton Aquitant (DS)		
Water-Stathod Learns (88)				Microtopographic Reiter (D4)	£	
fr: o)				PAC-MARIE TON (DS)		
<b>c</b> -	×					
3	×      		£	Page 157		
Saturation Present? Yes X (Includes cardiary frace)	_   	Depth (Inches): 6	×	2		
Describe Recorded Deta (stream gauge, monitoring well, earlisi pholos, previous inspections), if a veilable	monitoring well, series photos, pr	evious (repections), if available			Ì.	
Remarks:						
					_	
US Army Corps of Engineers			Eastern V	Countries and Place	Fastern Mountain and Placemont - Varabon 2.0	
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VEGETATION (Five Strats) - Use acientific names of plants.	names of plants.	Sempling Point: 13
Tree Stratum (Plot eline: 30' )	Abechde Domenant Indicator % Cover Species? Status	Dominarica Test wortusheet: Namber of Dominant Species That Are OBL, FACW, or FAC. 2 (A)
N 0 4 7		 
	0 × Total Cover	Percent of Dombert Species That As OBL, FACW or FAC: 100 00% (AB)
		Providence Indias workshoet    Total N, Cover of   Martin O     Oil system   0   1   0     FACM species   0   X   2   0     FACM species   0   X   0     FACM species   0   X   2   0     FACM species   0   X   2   0     FACM species   0   X   2   0     FACM species   0   X   0     FACM species   0   X   2   0     FACM species   0   X   2     FACM species   0   X   2     FACM species   0   X   2     FACM species   0   X   2     FACM species   0   X   2     FACM species   0   X   2     FACM species   0   X   2     FACM species   0   X   2     FACM species   0   X   2     FACM species   0   X   2     FACM species   0   X   2     FACM species   0   X   2
F Shook Stratums (Part Street 187	0 = Total Cover	0 x 6 = 0 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)
	0 "Total Cover	Phydrophytic Vegetation Indicators.  1. Registration Teal for Mychytic Vegetation.  X. 2. Dominance Index is 320°  4. Horstwiderical Anthonics. Provide asporting data in Remains or on a separate shield.  Problemetic Hydrophytic Vegetation (Equivir).
Herb Stratum; (Pixt stra. 5") 1 Impadente capanate 2 Prantes prosemblecobies	70 Y FACW 30 Y FAC	* Indicators of hydric scal and wedlend hydrology must be present, unless disturbed or problemetic
Wode ap     Symptocapus functua     Assure perchina     Tallum ap     Tallum ap     Tallum ap     Tallum ap		Definitions of Four Vegetation Steads.  Tea - Woody parts, exacting view, 3 in (7.5 cm) or more in demands at levest inspections of insight. Steading - Woody plants, exacteding smooth view, septeminately 20 it (8 in) or roome in height and lease film 3 in (7.6 cm) (584).
	100 Conf.	Shade - Woody plants, workdrop woody whee, aproximately 3 to 20 it is to in the harder. Herbe - All telectrons (convector) plants, regardless of also and woody plants less than 3.20 it last. Woody Vitnes - All woody where greater than 3.20 it in height.
Weacht Vine Stratum: (PP10 size: 357.) 1 2 3 4 5 6		Hydrophylic Vegetition Present? Yes X No.
Remerka, (Include photo numbera hera or on a separata univosem mongood By?	e ditest.)	

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Esstern Mountains and Piedmont - Vereion 2.0

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Sempling Point: 13	mercon of indicatored.)	Texture Remerks	lbam	ben							Prosition Pt = Pros Linero MeMents.	Indicators for Problemette Hydrig Bolls	2 cm Much (A10) (MLRA 147)	Coast Prairie Redox (A15)	Partment Floodolein Solle (P19)	(MLRA 134, 147)	Very Shallow Dark Surface (TF12)	Other (Explain in Remarks)			Indicators of hydrophytic vegetation and	wellind hydrology must be present, unless disambad or problematic.			Hydric Boll Present? Yes X No
	firm the ab		MPP	¥.	Ì	Ì	ĺ	j i		İ	ĺ		•	3.		•		•				_		-	
ļ	takor er con	- 84 2	u	J	İ	İ				İ	,			(MLRA 147,5					A RR M.		134, 122)	9) [MLRA 141] SA 127, 147]			
	ant the Indicat Retur Festime	×	"	위							M Sand Grain		٤	Surface (S8)	at (oc) (many	ĵ.	ace (FS)	urtece (F7)	one (F.8) Manage (F12)	Ì	F13) (M.R.A.	nan Boja (F1) nal (F21) (ML			
	н певсед то сосити	Color (moist)	7 SYR 4/6	5YR 4/8							cad Matrix MS-Masks		Dent Surface (S7)	Polyvelue Below Surface (S8) (MLRA 147, 148)	Loamy Glaved Marks (F2)	X Depleted Master (F3)	Redox Derk Surface (FB)	Depleted Dark Surface (F7)	Hadde Depressions (FS) Intro-Mannames Messes (F12) (LRR M	MURA 136)	Umbric Surface (F13) (86.8A 134, 122)	Red Perent Material (F21) (MLRA 127, 147)			
	the depth	*	8	8	ļ	-					RM*Rects							<u>۔</u>		,			ĺ		
	Profile Describtion: (Describe to the depth resided to document the Indicator or confirm the absence of indicators).  Duch  Refer Feature	Color (motet)	10°R 3/1	257 62					İ		Type: CarConcentration De Decletion Rule Resistant Months and States	of cators.	20	Matic Epipadon (A2)	Hidrogen Sullide (A4)	Stratified Layers (AS)	2 cm Muck (A10) (LIRR N	Depleted Below Dark Surface (A11)	Tack Lieft Surface (A12) Sandy Macky Mineral (S1) (LRB M	MLRA 147, 148)	Sandy Glayed Metrix (S4)	Sendy Redox (SS) Stripped Metric (S6)		Type tryer (if conserved)	ches): 10
SOIL	Profile Desc	(inches)	20	2-10					i		Type: C-Co	Hydric Soil Indicators.	Hatosod (A1)		Hidrogen Suffice	Statistics of the state of the	2 cm Max		Sendy is	M. PA	Sendy G	Sendy Ri Stripped I		Type	Depth (inches):

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### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Investigator(s): Landform (hithiga, lamon, etc.): Subragion (LRR or MLPA):	William S.	•				
Landform (Makiça, terraca, etc.): Subragion (LPR or MLPA);			Section, Township, Range'		S32, T10N, R2W	RZW
Subregion (LRR or MLRA):	Hit stope	Local Refe	Local Rater (conceve, convex, name):		CONVEX	(%) edo(s
	URRN		guor	12 72042t	Detrail	WGSBM
	toem, 15 to	accent mopes		NeW cleasification:	`   ≨	ا ٔ ا
c coud	the site typical for this time of year's		×	No plant august in Revents	Of no, suppose in Revenue.)	
Are Vegetation Soil Soil	or Hydrabay	squarecting decurses		Yes X No Yes X No Yes (If needed, outlier ory prevent in Planate.)	Present (	
SUMMARY OF FINDINGS - Attach sits map showing sampling point locations, transects, important features, etc.	tach site mep showing sampl	ling point locati	ons, transects, in	nportent featur	if, efc.	
Hydrophytic Vegetation Present?	  * 	×	is the Sampled			
Hydric Soil Present? Wetland Hydrology Present?	 <u>*</u>	× ×	Arms within a Wellend?	, \$	×	
Remarks:			,			
Forest. Original name BSday, SPQ						
HYDROLOGY						
Wedand Hydrology Indicators.				Secondary	hdicator (min	Secondary Indicators (minimum of two mouked)
Primary indicators (minimum of one is required, check of thei spoky)		:		<u>*</u>	Surface Bod Cracks (98)	ê
Surfect Window (A1)	The Aquetic	Thuy Aqueble Plants (B14)		<b>2</b>	Spensory Verpolated Conce	Parcese Surface (B6)
High Wester Table (A.2)	Hydrogen By	Hydrogen Buffide Odar (C1)	į	֓֟֟֝֟֝֟֓֓֓֓֓֓֟֟֓֓֓֟֟֓֓֓֓֟֟֓֓֓֟֓֓֓֟֓֓֓֟֓	Drainage Putterna (810)	<b>£</b>
Estation (As)		Challeng MacCappings on Living Mode (L.3) December of Backward Inn (CA)	(E)		Control Line (819)	
Sectional Deposits (B2)	Pacent Iron	Report Iron Reduction in Tiles Scite (CS)	(60)	8	Omyflet Burons (Q5)	Ì
Orth Deposits (B.3)	The Most Burines (C7)	urbos (C7)			unaliber Visible on	Sehration Visible on Aerial Imagery (CS)
Algoral Mark on Chapt (B4)	8	Other (Explain in Remorts)			Sturted or Streeged Plants (D1)	(LOT WAR
hon Deposits (95)					Geomorphic Position (D2)	220
madellon Velble on Aertal Imagery (87)	69			•	Bheelow Aquetard (DS)	_ ;
Water-Steined Learner (89)				֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	Micolapographic Rafer (D4)	
for all agents of the second						
Fleid Observations.						
Surface Water Present? Yes	×	Depth (Inches):				
2	×	Depth (Inches):	<u> </u>	Wedand Mydrology Present?	Present	
Saturation Present? Yes	×	Depth (Inches):	-	, and	× £	
Describe Recorded Data (atreem gauge, monitoring well, aerial photos, previous frapections), if a svaleds	uje, monitoring well, aertel photoe, (	previous inspection	), il available			
Remarks.						

#### VEGETATION (Five Strate) - Use actentific names of plants.

	Absorbes	Dominent	Indicator	Dominarie Test worksheet:	
Tree Statutes (Price sizer 30")	S Cover	Species?	Status	Number of Dominant Species	
1 Phus shobus	٤	<u> </u>	FACU	That Are OBL, FACW or FAC	3
2 Acer norum	2	z	FAC		
3 Prunue sercitine	2	z	FACU	Total Number of Dominant	
			1	Species Across All Strate:	<u>ê</u>
-				The bar for section and an arrangement	
	8	- Total Cover		ļ	§   
Sarothog Stratum: (Phot Store 16")				Prevalence Index worksheet:	
			Į	Total % Cover of Multiply by	707
2			{	OBL species 0 x 1 * 0	1
2	}			FACW appoint 6 x 2" 10	
			į	37 x 5=	
9			}	FACU species 86 x 4 = 344	
	1		{	ł	
	}	100		Column Toleile. 123 (A) 450	9
Strate Strategy (Proj Stor. 15				Prevalence bytes a R/A = 2 acad 36 cas	5
1				1	
2				Hydrophytic Vegelation Indicators:	
				1 - Rapid Test for Hydrophydo Vegetation	
1				2 - Dominance Test is >50%	
				3 - Prevalence index is \$3.0°	
			1	4 - Morphophoal Adaptations' (Provide ausporting	ş
			{		
of the Paris of th	ا	- Total Cover		Problematic Hydrophytic Vegetation" (Expiraln)	
The management of the same of	*	>	4	;	
2 Studente ap		2	ž	Indicators of hydric tool and wetland hydrology must be present, unless disturbed or problematic.	_
3 Richae ap.	-	z	₹	Definitions of Four Vegetation Strata	
4. Allerie peticieta	-	2	FACU	Tree - Woody plants, aucluding whee, 3 ln. (7.6 cm) or	*
5 Rose multiflore	~	z	FACU	more in dismeter at breast height (DBH), regardses of height.	of height.
6 Impeters caperate	-	z	FACM	Supling - Woody plants, excluding woody whee, eproximately 20 if	membery 20 (
7 Claytonia vigence	-	إ ح	¥.	(6 m) or more in height and less than 3 h. (7 6 cm) DBH.	¥
6 Umus americane	~	z	FACW	Shrub - Woody plants, ascholing woody vines, aproximately 3 to 20	freetaly 3 to 20
Geum sp.	7	2	ž	A (1 to 6 m) in height.	
13.				Herb - All herbaceous (non-wrooty) plants, regardless of size and wrote dates have \$ 24.5 and	
			}		
7,	æ	- Total Cover	1	Woody Vines - All woody vines greater than 3.28 it in height.	Theight.
Woody Ving Stratum, (Pict size: 30")					
		Ì	1		
			1	Hydrophytic	
		Ì	1		
		Ì	1		<u>*</u>
	٥	- Total Cover			

Z SYR 2 5/2 100 1078 3/3 100	l	ı
5 호	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
ē]		tagen
		loem
휘		bem
RM=Rechrond	Type C*Concentration, D*Departion, RM*Recinced Metrix, MS*Masked Sand Grains	*Location: PL= Pore Lining M-Metric
		Infloators for Problemetic Hydric Soils*
1	Dark Surface (57)  Debugge in Balton Surface (58)	2 cm Muck (A10) (MLRA 447)
Ji	Thin Dent Surface (S9) (MLRA147, 148)	(ML/A 147, 548)
!	Loanny Glayed Matrix (F2)	Pledmont Floodplain Solls (F19)
j	Depleted Matrix (F3)	(MLRA 134, 147)
[	Redox Dark Surtace (FB)	Very Shallow Dark Surface (TF12)
Department backer Lient Southers (A11)	Decide Description (P.1)	Cater (Explain in Remarks)
Saruh Mucky Mineral (S1) (LRB M.	hon-Munountee Mantes (F12) (LRS N.	
l	BELRA 136)	
l	Umbric Surface (F13) (MLRA 134, 122)	Indicators of hydrophytic vegetation and
	Predmont Floodplain Solls (F19) (NLRA 148)	wetland hydrology must be present.
ļ	Red Parent Material (F21) (MLRA 127, 147)	unises disturbed or problematio.
that and has note		
		Hydric Boll Present? Yes No X

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

VEGETATION (Five Strats) - Use acientific names of plants.

Semiperior Company	Dominance Test worksheet: Number of Dominant Species That Are OBL: FACH, or FAC: 4 (A)	Total Number of Dominant Species Across Al Strate: 5 (8)	Percent of Dominant Species That Are CRIL, FACH* or FAC 80 00% (ARS)	Provision of No. 1	Hydragifytic Vegetelden Indications.  1 - Calsul Test for Hydrocynic Vegetation.  X 2 Denimano Test is - Agrik. 3 - Perventions Indicate is - Agrik. 4 - Month-octopian Adeptation's (Provide ausporting deat in Remarks or on a separate absent).  Problematic Hydrocynyte Vegetation's (Expaint).  1 Indicates of Hydric and and wedend Hydrochogy must	Definitions of Four Newcooking Strate.  Two-Viroloy plants, exacted or floats, 3.7 (2 cm) or more in floating at least hand (1891, plants or other floating or more in height end least hands (1891), propositions of height Septimizer. Or more in height end least floating vancy vires, appointmently 20 it (in n) or more in height end least floating woody vires, appointmently 20 it (in n) or more in height, and under the control of the sin in height.  Herd - All height end least floating plants, regardless of size, and woody plants least lean 3.25 it list. Woody vires - All woody vires greater from 3.25 it in height.	Hydrouthyte Vegteston Praeset? Yes X No.	
TENETALINA (FIVE SURIA) - DES BASHANG HERRES OF PARTIE.	Absolute Do	Priva serotra 10 N Priva serotra 25 N Priva serotra 5 N Priva sylvetrit 5 N Priva sylv		Saudina Stratus   Prof Steer   16	15 × Total Coner	March   Marc	Wicker Vine Stratum: (Pine date   307   )	Remarks (Arclicke photo numbers hard or on a separate sheet.)

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SOIL

Depth   Mark	I make bear the control of	Describe to un	e depth	Profile Description (Describe to the depth needed to document the Indicator or confirm the absence of Indicators.)	e absence of indicators.)
157 442   150	ı	Matrix	į.	Redox Festures	1
157 47.5   100	1	١	إد	Cotor (moint) % Type*	Texture
197 473   1100   120		İ	₽		Lateral
1) Chapterior, Rizer Factorior Metry, MS-Nearing Speed Grains.  1) Chapterior, Rizer Factorior Metry, MS-Nearing Speed Grains.  2) Deet Sourton (37)  2) This Deet Sourton (38) (MLMA 147,144)  2) This Deet Sourton (39) (MLMA 147,144)  3) Chapterior (37)  4) Chapterio		57.473	8		loam .
Description, Plantiflands of Matter, at Shiftening Sand Crains,   Tocation Pr. & Pres Lines Sand Crains,   Tocation Pr. & Pres Lines Sand Crains,   Tocation Pr. & Pres Lines Sand Works Sandon (St) (St. M. 147, 144)   Coast Plantifla Solate.   Coast P		j	İ		
Der Surface (23)  Der Surface (23)  Der Surface (23)  Der Surface (23)  Der Surface (24)  Der Surface (25)  Der Surface (25)  Der Surface (26)  Der Surface (26)  Der Surface (26)  Der Surface (26)  Der Surface (26)  Der Surface (26)  Der Surface (26)  Der Surface (26)  Der Surface (26)  Der Surface (26)  Der Surface (26)  Der Surface (27)  Der Surface					
1. Chichipation, Franchastand Sand Grains. 2. Continue Pre-Pres Lettry Mehiterit. 2. Dent Surface (37) 3. Dent Surface (37) 4.) Dent Surface (38) 4.) Dent Surface (39) 5. Dente Surface (39) 6. Dente					
Deat Surface (37)	Tone Catemorates	On Charleston D	Property.	and Market as Britains and Company	Towards the contract of the contract of
Dark Surface (37)   Dark Surface (38)   RLFM 147,144    Cose Prairie factor (14)   RLFM 147	tydric Boll indicators.			The state of the s	Indicators for Problematic House Rolls.
Polyvate Buber Samon (SB) (BLLPA 147, 144)  Thin Oak Surface (SB) (BLLPA147, 144)  Thin Oak Surface (SB) (BLLPA147, 144)  Long-back Matter (F7)  Depted Matter (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Redox (Dat Surface (F7)  Red Fuerari Manufal (F7) (BLRA 132, 137)  Red Fuerari Manufal (F7) (BLRA 137, 147)  Red Fuerari Manufal (F7) (BLRA 137, 147)  Red Fuerari Manufal (F7) (BLRA 137, 147)	Hatosol (A1)		•	Dent Surface (87)	2 cm Muck (A10) (MLRA 147)
Loamy Grayd Matric (F2)  Loamy Grayd Matric (F2)  Depleted Matric (F3)  Redoct (F3)	Hatte Epipedon (A2) Black Hinte (A3)		•	Polyvake Below Surface (SB) (BILINA 147,148) This Dark Surface (SB) (MI DA147, 148)	Coest Prairie Redox (A16)
Depleted Match (FT)  Redon Dark Surface (FT)  Redon Dark Surface (FT)  Redon Dark Surface (FT)  Redon Dark Surface (FT)  Redon Dark Surface (FT)  Redon Dark Surface (FT)  LUR M, Institut 1897  Luncht Surface (FT) (LR M, Institut 1897  Luncht Surface (FT) (LR M, Institut 1897  Luncht Surface (FT) (LR M, Institut 1897  Luncht Surface (FT) (LR M, Institut 1897  Luncht Surface (FT) (LR M, 1847  Red Fuerral Meant of (FT) (LR M, 1847  Red Fuerral Me	Hydrogen Sutide (Ad	-	• •	Loamy Glayed Marriz (F2)	Predmork Phodplein Solle (F19)
Action Control (1972)  Well States (1972)  Action Control (Explane In States (1972)  Action Control (Explane In States (1972)  Action Control (Explane In States (1972) (ARR M. In Land 1982)  Action Control (Explane In States (1972) (ARR M. In Land 1982)  Action Control (Explane In States (1972) (ALR Action In Interest (In Interest In Interest (In Interest In Interest In Interest In Interest In Interest In Interest In Interest In Interest In Interest In Interest Inter	Stratffed Layers (AS)	_ :	•	Oepleind Metrix (F3)	(MURA 194, 547)
Review Degrees busses (F12) (LRR M,   Inch Mary 1995   LRR M,   Inch Mary 1995   LRR M,   Inch Mary 1995   LRR M,   Inch Mary 1995   LRR M,   Inch Color 1	Decisied Below Dark	Surface (A11)	•	People Derk Surface (Fd)	Very Shallow Dark Surjace (1F12) Other (Findshi in Remarks)
LAR H,   Inch Margenes Masses (*12) (LAR H,   Production of hydrothytic vapolation and   Production of hydrothytic vapolation and   Production of hydrothytic vapolation and   Production of Product	Thirst Derk Surface (	M2)	• •	Redox Depressions (FB)	
Unitatic Bordinas (F.13) (MLBA 152, 122) **Pelication of hydrophytic vegetation and Predicated Pootpain Sole (F.19) (MLBA 152, 157) ** welfand hydrotogy must be present, Red Purent Meanrial (F.21) (MLBA 127, 147) ** unless disturbed or problematic. ** Predicated or predicated or pred	Sandy Mucky Minera	(S1) (LRR A.	•	hron-Management Masses (F12) (LRR M.	
Predmont Pootpain Suis (719) (BLIAA 148) welliand hydrotogy must be present, Red Purent Meaunia (721) (BLIAA 127, 147) unless defunited or problematic.  Pred Purent Meaunia (721) (BLIAA 127, 147) Predict Soil Present? Yes No.	Sendy Geyed Metric	(34)		Umbric Surface (F13) (MLRA 134, 122)	*Indicators of hydrophytic vegetation and
Rad Perent Material (F21) (MLRA 127, 147) unless disturbed or problematic  Hydric Boll Present? Yes No	Sendy Redox (55)		•	Piedmont Flootpian Soils (F19) (MLRA 148)	wellend hydrobogy must be present,
Hydrit Sol Present? Yes No.	Stripped Matrix (S6)		•	Red Parent Material (F21) (MLRA 127, 147)	uniess disturbed or problematic
hydrit Sod Present? Yes No	setrictive Layer (N obs.	Gara	ľ		
Hydrit 3od Present? Yes No	1		1		
	Depth (inches):				2

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### WETLAND DETERMINATION DATA FORM • Eastern Mountains and Piedmont

Present part (s)	8 Saby	Section, Township, Rangel	S32, T10N, RCW
Landform (Milelope, terrace, etc.);	e doşa	Local Refinf (concare, convex, rone):	uou
Subrecion (LRR or MLRA):	LARN	40 848572 Long	90 719179 Debute
	A tourne 6		eaffication: n
Are officerite the characteristics	the charter forther in the fact of the second for the first first feet and the second for the first feet for the feet for the feet feet for the feet feet feet feet feet feet feet	\ ,	١.
Are Vegelation	Sel Control of Hydrology and Sel Control of Sel Con	4	Are "Normed Circumstances" presents?  Yes X  The Company of the Circumstances of the Circumst
SUMMARY OF FINDINGS	ch elte map showing samp	g point locations, transacts, im	portant feetures, etc.
Hydrophylic Vegetation Present?	X 89%	No	
Hydric Soil Present?		And within a	,
Remarks.	 	-	
PFO Original name BSday2 SP6	8		
HYDROLOGY			
Wetland Hydrology Indicators.	<u> </u>		Secondary indicators (minimum of two required)
Princey indicators (minimum of one is required, chack all that apply)	s required, check of that apply)		Surface End Conces (SR)
Surface Water (A1)		(B14)	Spensely Vegeteted Concern Burlace (88)
High Weder Table (A2)	- 1	Oder (C1)	X Dreinige Patherne (B10)
× Seturation (A3)	X Outback Rhoos	Oxidead Rhigosphares on Living Rooks (C3)	Mose Tries Lines (016)
Contract County (C.)	(AS) man benefit to managery	Francis of hydrod from (CA)  Parent has majorited in Thai Safe (CA)	Cry despite Willer Table (CZ)
Deli Deposite (83)	This Mack Surface (C.7.)	100)	Setundary Value on Auril Inspery (CC)
Age Mai of the Charl (BK)	Other (Explain in Remarks)	Pemeria)	Sturbed or Stressed Plants (D1)
Non Deposite (86)			Geomorphic Position (D.2)
frundellen Vielbe en Aeriel Imsgery (B7)	Spery (B7)		Shelber Aquitard (DS)
Water States (89)			Microscopy applies (Aske) (D4)
Field Observations.			
•	¥	Depth (Inches):	
Water Table Present? Yes	×     	}	Wettern Hydrology Present?
Seturation Present? Yes	₽ ×	Depth (inches): 9 Ye	Yes X No
(Includes capitery fringe) Describe Recorded Date (stream	(nouckes capiting y image). Describe Recorded Date (stream gauge, monfochig wet, earlel photos, previous Impactions). If available	tous trapections) if available.	
Remarks:			
_			

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entifica
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Strata)
E N
ÆGET

Sampling Point: 16	Dominance Test wortisheet: Number of Dominant Species That Are CBL, FACM, or FAC. 4 (A)	Total Number of Consistent Species Across Al Strate: 6 (8) Percent of Comment Species	Their Are OBL, FACHV, or FAC: 80 00% (ARE)	FAC upocles	Hydrophysis Vegetation Indicators.  1 - Report Trait Expression  1 - Should Trait for Hydrophysis Vegetation  X 2 - Denimence Trait is -60%  2 - Providence Index is 50 0  4 - Individual Annie Microsity Report Microsity Respectives  Gate in Reportation of a supporting	Problematic Hydrophylib Vegetation (Explain)  * Indication of hydric and and welland hydrology must be greated, usiness delutated or problematic.  Destination at foreit hydrophylib Vegetation Stream.  Tee - Woody jakes, suckularis views, 3 h. (7 6 m.) or more in demonster at lesses hands (1884) requirates of height.  Sepating, suckularis views, 3 h. (7 6 m.) or more in demonster at lesses hand 3 h. (7 6 m.) or more in height and sees than 3 h. (7 6 m.) or for none in height and sees than 3 h. (7 6 m.) or for none in height and sees than 3 h. (7 6 m.) or for the woody plants, excluding woody views, aproximately 3 to 20  **Reposition**  Woody Views - All woody views greater than 3.28 it in height.  **Phidrophylib  **Vegetation**  **Phidrophylib  **Vegetation**  **Phidrophylib  **Vegetation**  **Present?*  **Vee X   Peresent?*  **Present.*  **Present.*
Ę	Dominant Indicator Species? Sature Y FAC		- Total Cover	=Total Cover	FACU N FACW	10se Cover
ic names of pla	Absolute Don		66 100	9 at	\$ m	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
VEGETATION (Five Strats) - Use scientific names of plants	Ion Stratum (Pol star 30 )		Sunder Syndem. (Pol Sue: 19*)	S S S S S S S S S S S S S S S S S S S	Rose middeg	Hent Stralum: (Ptot size (F))    Impatent coperate   Process senable   Concess senab

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(finches) Color (molet)							
1078.37	×	Color (moist)		- - -	3	Texture	Remarks
	5   8					clayfoam	•
257 67	1	WE 3W	Ì.	١.	1	- Cardyage	
	8	6YR 446	=	اً ا	14.64	deyhoem	
Type C=Concentration, D=Depiction, RM=Raduced Matrix, MS=Mested Send Grains	M*Reduce	d Metts, MS=Meske	d Sand Grain	į		Accepton: Pt.= Pore Lining, MrMatrix.	M=Matrix.
Hydric Soil Indicatoris:						Indicators for Problemede Hydric Soils".	Hydric Solls:
Helosol (A1)	1	Dark Surface (S7)	_			2 cm Muck (A10) (MLRA 147)	LA 147)
Black Heatic (A3)	I	This Dark Surface (S9) (MLRA147, 144)	(S9) (MLRV	M47, 945)	ĵ	(MLRA 147, 148)	ĺ¢.
Hydrogen Sulfide (A4)	, 1		Marte (F-2)			Pledmont Floodplain Solls (F19)	OR (F19)
Strattled Layers (AS)	1	X Deplemed Matrix (F3)	e i			DREA 134, 447	i
Designed Rebus Dark Surface (A11)	1	Nedox Lent Surface (F6)	(F6)			Other (Section in Remode)	BOB (1F12)
Thick Dark Surface (A12)	1	Redox Depressions (F8)	(£3)				î
Sendy Mucky Mineral (S1) (LRR M.	ı I	Iron-Mangenese Masess (F12) (LRR N.	Masses (F12,	(LRR N.			
M. RA 147, 148)		MLRA 136)					
Sandy Olayed Marrix (S4)	ı	Umbric Surface (F13) (MLRA 134, 122)	F13) (MLRA	138, 122		Indicators of hydrophysic vagaration and	pur ungerede
Stripped Metric (36)	1	Red Parent Material (F21) (MLRA 127, 147)	da (F21) (M	JEA 127, LE	ìc	unitees deturbed or problemetic	of present.
Restrictive Layer (if observed):							
Jack I	I						
Depth (Inches):	I					Hydric Soll Present?	×
Remerta.					]		

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont Region

mojecusia South Rich Encre, Interconnection Reality concounty Modison Top Columbiane Samuer South Rich Encre Intercounty Proposition South South South Prince Office South South Prince Office South South Prince Office South South Prince Office South South Prince Office South Prince Offi	Section Townships Region 5-56. I ILLY 12.00.  Local related Conceins, convex, more).  247. Local relation of the Conceins of t	ear" Yes X No (fro, explain in Remarks)  y deturbed? An Homel Chromostances' present? Yes X No chemistic? (if needed, explain any answers in Remarks)	SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transacts, important features, etc.	Is the Sampled Area Yes X No	
moteousie Swith Rick Encry, Interconnection Builth	Investigated (a) LCAVA CASTRE. Section Township Renge 3.54 + HLAN - Local near Construction of the LAN - Local near Construction of the LAN - Local near Construction of the LAN - Local HARD - Local No Local LAN - LOCAL LAN - LOCAL	Are charact, indichagle conditions on the site lypical for this time of year? Yes X has written (if no, explain in Remants).  Are Vegelation Sol of Hydrology springly disturbed? An enforce Circumstances' present? Are Vegelation Sol of Hydrology naturally problematic? (if needed, explain any enswers in Rem	SUMMARY OF FINDINGS - Attach site map showing	Hydrophytic Vegatation Present? Ves X No No No No No No No No No No No No No	Menusics per - w-12]

LS-14-3 SP3-1

YDROLOGY	
Welland Hydrology Indicators	Secondary Indicators (minimum of two required)
Propert indicators (minimum of one is required, check all that anoth)	Surface Soll Cracks (BA)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegelated Concine Surface (B8)
A High Water Table (A2) Hydrogen Suilide Osior (C1)	X Drainage Patierns (B10)
Į	1
Water Marks (B1) Phasance of Reduced Iton (C4)	Dry-Season Water Table (C2)
Sardiment Deposits (B2) Recent from Reduction in Tilled Solls (C6)	Crayfish Burrows (CB)
Drift Deposits (83)	Saturation Visible on Aerial Imagery (C9)
Algel Met or Crust (B4) Cohes (Explain in Remarks)	Sturted or Stressed Plents (D1)
Iran Deposits (85)	Geomorphic Position (D2)
wundstion Visible on Aerial Imagery (87)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Faura (813)	X FAC-Neutral Test (D5)
held Observations	
ell's	
Water Table Present? Yes X No Depth (Inches)	
Salwallon Present? Yes X No Depth (Inches) Q   Wells	Welfand Hydrology Present? Yes X No
Includes capillary fringe)	
Searche Recorded Data (streem gauge, monitoring well aertal photos, previous Inspections).	evellable.
demarks.	
	_

(A/B) Tree – Woody plants, excluding whees, 3 ft. (7 6 cm) or more in diameter at breast height (DBA), regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ff tall. <u>@</u> 3 Sapking/Shrub – Woody plants, excluding wines less than 3 in. DBH and greater than or equal to 3 28 ft. (s) m) talk. Woody vine - All woody vines greater than 3.28 if in height Indicators of hybric soil and weband hydrology must be present, unless disturbed or problematic. Problematic Hydrophytic Vegetation! (Explain) 1 - Rapid Test for Hydrophylic Vegetation MARTEN DE Sampling Point 13 607 , . , . ; ; , x3. 1:1 <u>₽</u> 3 1 Definitions of Four Vegetation Strata Hydrophytic Vegetation Indicators. 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0° <u>ا</u>بر ئۇ Providence Index = BJA = Percent of Dominant Species That Are OBL, FACW, or FAC. Number of Dominaria Species That Are OBL, FACW, or FAC Prevalence Index worksheet Dominance Test worksheet. Total % Cover of Total Number of Dominant Spackes Across All Strate Column Totals: FACW spedes FACU species OBL species FAC species Hydrophytic Vegetation Present? UPL species 190 Absolute Dominant Indicator (7) 20% of total cover 20 Total Cover 20% of total cover Total Cover · Total Cover 20% of lotal cover 20% of toler cove VEGETATION (Four Strats) - Use scientific names of plants. Remarks. (Include photo numbers here or on a separate sheet.) Woody Vine Stratum (Plot size: 30 50% of ideal cover Sading/Shyub Strabmi (Pict size 151 50% of total cover 50% of lotal cover Leng stand the sea 1.
1 thy steer A Strictes
2 in patients Captus 18
3 symplecations Particus
4 Barbares in 190 rs
6 hallium aspertilum line Statem (Plot size 30 Herb Stratum (Piot stor S

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attennetha Fash H. Chycouny	Columbiana Co Samplin Samp
Investigator(s)   QUY of ScolYC   Section, Township, Range	ship. Range 532, TION, R.ZW
Local relief (concave, co.	1
Sold Map Unit Name. (30C-Calpin-Cothocht) Call Hadmik 16-15 Derient Sides Williams	DOTCENT SIGNES NWI CHESSINGSTON
Ne climatic / hydrobour conditions on the site hydrol for this time of year? Yes No	No (If no, explain in Remarks)
Soll ar Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetalion Soil or Hydrology naturally problematic? (If	(if needed explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc	point locations, transects, important features, etc
on Present? Yes No	: 
Hydro Soll Present? Yes No Weldard Hydrology Present? Yes No X	e Weitland? Yes No
Perrots Forest	
. s.	
HYDROLOGY	
Weltand Hydrology Indicators	Secondary Indicators (minimum of two required)
Primary indicators (minimum of one is required, check all that apply)	Surface Soll Crecks (Bb)
-	Spersely Vegetated Concave Surface (B8)
te (A2)	١
I	l
Sediment Deposits (B.) Recent trop Reduction in Tilled Solds (CA)	4) CAN CAN CANCER WATER (CA)
1	
[   E	Sturted or Stressed Plants (D1)
han Deposits (BS)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (87)	Shallow Aquitant (D3)
Water Started Leaves (89)	Maratapagraphic Relief (D4)
Field Observations	(CA) REAL MARGANIA
Surface Water Present? Yes No Depth (Inches)	
Yes	
Saturation Present? Yes No Depth (Inches) Victorides capitary finge)	Wetland Hydrology Present? Yes No X
Describe Recorded Dela (stream gauga, montroling well serial photos, previous trapectoris). Il available	pectons). If evallable
Remarks	

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50° % (MB) 3 - Prevalence Index is s3 0<sup>1</sup>
 4 - Morphological Adaptations<sup>2</sup> (Provide supporting data in Remarks or on a separate sheet) Tive – Woody plants, exctading wheel, 3 tr. (1 6 cm) or nor a lin dismeter at breast height (DBH) regardless of height. Merb - All herbacecus (non-woody) plants regardless of size, and woody plants less than 3-28 fittall 3 € Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problements. Definitions of Four Vegetation Strains. Saping/Shrub – Woody plants, excluding whee, less than 3 in, DBH and greater than or equal to 3.28 in (1 m) tall. Woody vine - All woody writes greater than 3,28 ft in height. Problematic Hydrophylic Vegetation<sup>1</sup> (Explain) 1 - Rapid Test for Hydrochytic Vegatation Sampling Point. (9 夕 d د Prevalence Index - BIA - 3/5 Hydrophytic Vegelation Indicators Yes 2 - Dominance Test is >50% Number of Dominarii Species That Are OBL, FACW, or FAC Percent of Dominant Species That Are OBL, FACW, or FAC. Dominance Test worksheet. Prevalence Index workshoel Total Number of Dominant Species Across All Shets Total % Cover of: OBL species Hydrophytic Vegetation Present? Hertstarking Prosts S, Som of Unbil comer 30, 215 - Total Comer IS

1 CINCH PAMIL WINGINIES.
2 Symphys Prich Pamil Sp. 30 N. FALL - 3. Importation of Activities 10 N. FALL be s. Importation of Activities 10 N. FALL be s. Viola. Septentive and US. 5 N. CAMIL be s. William Special Septential Special Septential Special Septential S EFEN. 90% of total cover | \$ Total Cover 7 20% of total cover 20% of total cover VEGETATION (Four Strats) - Use scientific names of plants. 9 2 250 Remarks. (Include photo numbers here or on a soparata street.) SON of total cover U.S.

Woody Vine Stjalum (Prior size 20) 60% of lotal cover Tree Statum (Polston: 20)
1 Cary a. Mosto.
2 Dury Cus. Do Wayr is · LIQUETUM VILLAGE

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Lot Lot	Pris. * Tocallor Plance Letry, Markelitis Markelitis for Plance Letry, Markelitis (A10) MLRA N7)  2 on Much (A10) MLRA N7)  2 on Much (A10) MLRA N7)  Coest Person Reduc (A10)  Pedmont Floodplen Soils (F19)  (MRA 11) 148)  Pedmont Floodplen Soils (F19)  (MRA 148)  **Mocallor of hydrophyde vegetation and WRA 148)  **Western Markelitis (F12)  Coher (Explen in Remarks)  **Mocallor of hydrophyde vegetation and welland hydrology must be present, unitess deslutted or problematic.  **Hydric Soil Present? Yes No. **Mo
Color (mission 18 % Tone 2 C	Peoblecel Navir MS-Masked Sand Greins. 100  Dark Surface (57)  Polyshibe Bodow Surface (58) (MLRA 147, 148)  Thin Dark Surface (59) (MLRA 147, 148)  Debeled Martin (73)  Peoblecel Martin (73)  Redux Depressions (73)  Redux Depressions (73)  Redux Depressions (73)  Redux Depressions (73)  Redux Depressions (73)  Red Perent Halfare (71) (MLRA 148)  Red Perent Malerier (72) (M.RA 149)  Red Perent Malerier (72) (M.RA 147)
Depth Matter 1 100 100 100 100 100 100 100 100 100	Hype CConcentration, D-Deplation, RM-Reduced Medit MS-Masked Sand Greins History (M) His

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

7. I	Section, Township, Range S22, T10N, R2W	Long -BO TITOB Sope (%)	No fit no, explain in Remarks.)	Are thomas Circumstances' present? Yes X No (If needed, explain any answors in Remarks.)	SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transacts, important features, etc.	bs the Sampled Area Yes X No				Secondary Indicators (inhumum of two required) Surface Soil Cracks (Bo)	Sparsely Vegeland Concave Surface (BB)	1 1	Dry-Season Water Table (C2) colls (C6) Crayfish Burrows (C8)	j	Sturted of Stessed Plants (U1) Geomorphic Position (D2)	Shallow Aquitand (D3)	Mcrubopographic Relief (D4)  X FAC-Neufral Test (D5)	Wetland Hybrology Present? Yes X No.	clions), if available		
deconnection bealty caycoung		NISU La 40.645%	Sol Map Unit Name, GSOC.  Are chmatic / hydrokogic conditions on the Site typical for this time of year? Yes X.		- Attach site map showing sampling po	Yes X No Yes Y No Yes X No Yes	1-13			Westand Hydrology Indicators. Phinary Indicators (minimum of one is required chack at that apply)	True Aquatic Plants (814)	Oxidized Rhizospheres on Living Routs (C3)	Presence of Reduced fron (C4) Recent fron Reduction in Tilled Soils (C6)	Thin Muck Surface (C7)	Other (Explain in Remarks)	magery (B7)		Ves X No Depth (nothes) 1 V Ves X No Depth (nothes) 0 P Ves X No Depth (nothes) 0 V Ves X No Depth (nothes) 0 V Ves X No Depth (nothes)	Describe Recorded Data (stream gauge, moriforing well, kerial photos, previous hopechons). If evellable		
Projections South Field Ever	Applicantowner Tettateth  Indexe Sayre	Landicem (Missispe, Nerrace, etc.). Subregion (LRR or MLRA) LRR	Soil Map Unit Name, <u>(50 C*</u> Are climatic / hydrologic conditions	Are Vegetation Soil Are Vegetation Soil	SUMMARY OF FINDINGS	Hydrophylic Vegelation Present? Hydro Soil Present? Welland Hydrobogy Present?	Remarks PEM IN W-13	SP L3-3	HYDROLOGY	Weitand Hydrology Indicators, Primary Indicators (minimum of c	Surface Water (A1)	Seturation (A3)	Waler Marks (B1) Sediment Deposits (B2)	Drift Deposits (B3)	Mgal Mat or Crust (B4)     fron Deposits (B5)	Inundation Visible on Aerial Imagery (B7)	Webs Stained Leaves (89)     Aquatic Faura (813)	Field Observations Surface Water Present? Water Table Present? Vision Present? Y Solvation Present? Y	Describe Recorded Data (stream	Remarks	

1			11	INM AP UBL. FACW, O' FAC.
				Section Section Section 18 Property and Prop
			Ī	Total Number of Dominart Species Across All Strata
			11	Percent of Dominent Speckes That Are DBL, FACW or FAC
7.				rksheet
description of the state of the	300	Total Cover		OBL species x1.
SadingStrut Stratum (Pixt size. 15)				FACW appeals x2.
			1	
			$\overline{  }$	a todex - B/A
, ·				Hydrophylic Vegelation Indicators.
),   1,				1 - Reptd Test for Hydrophytic Vegocieton
				Z - Ukominenke jest is vojita. Z - Prevelence index is s.a 0
SON of local cover	20%	20% of Intal cover		4 - Morphotogical Adaptations* (Provide supporting
19 ag			]	data in Remarks of on a separate sheet)
WINCENIA.	2	+	190	Andrease Hydrophyse, Voyeland (Explan)
impace S Capenal	200	+		Indicators of hydric soil and welland hydrology must
Proc/68	M	1	3	be present, unless disturbed or problematic Definitions of Four Venetalion Strata:
FIRM SUPE	n	1	200	Tree - Months of only and other was a second
6 Symplotarpus thenaus	ı	4	700	incre in dameter at treest height (DBH), regardess of height.
8				Septimg/Shrub - Woody plants, excluding whee.
1.0			Ī	then 3 in DBH and greater than or equatio 3.28 in (1 m) tall.
11	11		1	Herb - All herbeceous (hon-woody) plants, regar
Control of the second s	0 %	20% of total cover	20	of size, and woody plants less than 3.28 & tall
١,	1		\$	Woody who - All woody vines greater than 3 28 h in theight.
1			1	
3				
		Total Comm	T	Vegetation Yes X No
50% of total cover	18	20% of total cover	1	
Remarks. (Include photo numbers here or on a separate sheet.)	( Tage			

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SOIL

Port Hill Description, Character in the depth masked in decrement the holdstare of centum the describe of indicators.)

Port Hill Description, Character in the depth masked in decrement the holdstare of centum the describe of the described of the describe

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont Region

ProjectSite Sauth held	Freigy Introverdien Excility Com Sector	Appearation South hald Entry introduction facility concount Continuous Conservation of South Sou
Landram (Nikstope, Terrate etc.) Subregion (LRR or MIRA) LOR N 1214	PO OF 181	8
Solt Map Unit Name GOCC		A S LODO C. WAI classification
SUMMARY OF FIND	INGS - Attach site map showing sai	SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Litydrophytic Vegelation Present?  Hydric Soil Present?  Welland Hydrology Present?	resem? Yes No X	is the Sempled Area within a Wellend? Yes
Romarka Scrub	Scrub/Shrub	
4-8-81		
Welland Hydrology Indicators	201003	Secondary (redicators (minimum of three reducted)
Primary indicators (minimu	Primary indicators (micrimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquetic Plants (B14)	i
High Water Table (A2)	1	dor (C1) Drahage Patterns (B10)
Water Marks (B1)	Presence of Reduced fron (C4)	1 1 (%) special (%)
Sediment Deposits (BZ)	ľ	n Tilled Solls (C6)
Drift Deposits (83) Albeit Met or Crust (84)	Other (Expert in Remarks)	marks Shrifted or Stressed Plants (D1)
From Deposits (85)	l	1
Inundation Visible on Aurial (magery (87)   Water-Stained Leaves (89)	Aertel (magery (87) (89)	Shabow Aquitard (D.3) Micrahopowaphir Reiter (D.4)
Aquatic Fauna (813)		FAC-Nouted Test (DS)
Field Observations	۲ :	
Surface Water Present?	د ع د ع ا	
Salteration Present?	Vac to X Control (rection)	Weddend Puritobox Present? Yes
(Includes capitlary fitnge) Describe Recorded Data (s	ge, monitoring w	
Remarks		

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Dominionice Test workshoot.  Number of Dominent Species That Are OBL, FACM, or FAC. Total Number of Dominent Species Across Au Strate.
1
Percent of Dominant Species That Are ORL: FACM or FAC:
Total & Cover of Multiply by.  OBL species
989
UPL species 10 x6 0 0 00 00 00 00 00 00 00 00 00 00 00 0
8
Hydrophylic Vegetation hydroators.  1 - Rankt Tost for Hydrophylic Venetation
2 - Dominance Test is >60%
- Prevalence Index is x3 0*     - A - Morphological Adaptations* (Provide supporting)
data in Remarks or on a separate sheet) Problematic Hydrothytic Vegetation* (Explain)
Indextors of tydes soll and well and hydrology must
Definitions of Four Vegetation Strate.
Tree = Woody plants excluding whee, 3 in, (? 6 cm) or more in diameter at breast height (DBH) regardless of height.
Sapkry/Shrub – Woody plants, excluding whes. less than 3 th. DBH and gnater than of equal to 3.28 ft (1 m) latt.
Herb All herbacoux (non-woody) plents, regardess of size, and woody plents less then 3.28 ft hall.
Woody who All woody vines greater than 3.26 ft in height
drophytic
wsen? Yes No
2 - Domin 3 - Prevail 4 - Morph 4 - Morph 4 - Morph 6 - Morph Problems 7 - Morph 1 - M

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Sampling Point 20 Texture Remarks  LC  LC	**Location: PL-Pose Lawey Markelink indicators for Problementic Hydric Solist*.  2 cm Muck (Alt) Qual.R. 4.17  2 cm Muck (Alt) Qual.R. 4.17  2 cm Muck (Alt) Qual.R. 4.17  4 marker Rooden's Solist*;  Peterne Rooden's Solist*;  Peterne Rooden's Solist*;  Vary Sindlow Dark Sufface (TF12)	Hyarte Soil Present? Yes No X
Soft Specifical Describe to the depth needed to document the indicator or confirm the absence of indicators. Depth 18 Color (most) 8 Color (most) 8 Color (most) 10 C C C C C C C C C C C C C C C C C C	C-Concentration, D-Depietion, RMA-Reduced Matrix, MS advested Sand Greins.  Sold indicators  Lot Surface (S.)  Earl Surface (S.)  Deh Surface (S.)  This Dark Surface (S.) (MLRA 147, 148)  This Dark Surface (S.) (MLRA 147, 148)  This Dark Surface (S.) (MLRA 147, 148)  The Dark Surface (S.) (MLRA 147, 148)  The Dark Surface (S.) (MLRA 147, 148)  The Dark Surface (S.) (MLRA 147, 148)  The Dark Surface (S.)  Depieded Matrix (F.)  The Dark Surface (F.)  Depieded Matrix (F.)  The Dark Surface (S.)  The Dark Surface (S.)  The Dark Surface (S.)  The Dark Surface (S.)  The Dark Surface (S.)  The Dark Surface (S.)  The Dark Surface (S.)  The Dark Surface (S.)  The Dark Surface (S.)  The Dark Surface (S.)  The Dark Surface (S.)  The Dark Surface (S.)  The Dark Surface (T.) (MLRA 148)  The Dark Dark (S.)  The Dark Dark (S.)  The Dark Surface (S.)  The Dark Surface (T.)  The Dark Surface (T.)  The Dark Surface (T.)  The Dark Dark (S.)  The Dark Surface (T.)  The Dark Dark (S.)  The Dark (S.)  T	
SOIL Profile Description, (Describe to the dept Description, (Describe to the dept Description)    Description   Color (Indis)   St.   100	Type C-Concentration, D-Depleton, RNA- Hydric Soll Indicators Hesis Expector (A.) Historic Markeners Historic Markeners Historic Markeners Historic Markeners Historic Markeners Historic Markeners Historic Markeners Stratified Layers (A.) Stratified Layers (A.) Stratified Layers (A.) Stratified Layers (A.) Stratified Layers (A.) Stratified Layers (A.) Stratified Layers (A.) Stratified Layers (A.) Stratified Layers (A.) Stratified Layers (Tobbereved) Restrictive Layers (Tobbereved)	Type Depth (nches): Remarks

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

SUMMARY OF FINDINGS – Aftech site map showing sampling point locations, transects, important features, etc.  Hydr Sol Present  Yes X No
ogy indicators  1 finalmunt done is resulted check all hal sorth)  Table (A2)  1 Address Flaus (B14)  Table (A2)  1 Address Flaus (B14)  Toward and strain order (C1)  Toward and strain from (C4)  Then Mack Surface (C7)  Cust (B4)  Then Mack Surface (C7)  Cust (B4)  Then Mack Surface (C7)  Cust (B4)  Then Mack Surface (C7)  Cust (B4)  Then Mack Surface (C7)  Cust (B4)  Then Mack Surface (C7)  Cust (B4)  Then Mack Surface (C7)  Cust (B4)  Then Mack Surface (C7)  Cust (B4)  Then Mack Surface (C7)  Cust (B4)  Then Mack Surface (C7)  Cust (B4)
ogy braicetors  1 Intelment of one & reautor, others all that apply)  1 Labe (A2)  1 Abrill The Aquate Plants (814)  1 Abrill The Aquate Plants (814)  1 Abrill The Aquate Plants (814)  1 Abrill The Aquate Charles (814)  1 Abrill The Aquate Charles (814)  2 Abrill The Aquate Charles (815)  2 Abrill The Aquate Charles (817)  3 Abrill The Aquate Charles (817)  4 (82)  4 (82)  4 (83)  4 (83)  4 (83)  4 (84)  4 (84)
Tree & resulted check at that acody.  Tree Aquelle Plants (814)  Hydrogen Suffice Odor (C1)  Oddreed Mischapheres on Uning Robel (C3)  Present han Reduction in Titled Soles (Co)  The Mack Suffice (C7)  Other (Explain in Remarks)
Variation (1914)  Geo Cotor (C1)  Solution in Titled Solution (C4)  Foreign (C7)  In Remarks)
Hydrogen Suffice Odor (C1)  Conduced Ribiospheres on Living Roots (C2)  Presence of Reduced from (C4)  Reserved from Reduced from (C4)  Reserved from Reduced from (C4)  Thin Mack Suffece (C7)  Other (Explain in Remarks)
Conduced Ribiospheess on Living Roots (C3) Presence of Reduced from (C4) Recent from Reduction in Titled Soils (C6) Thin Mack Surface (C7) Other (Explain in Remarks)
Presence of Reducted from (C4)  Then Mark Surface (C7)  Other (Explain in Remarks)
Thin Muck Surfece (C7)  Other (Explain in Remarks)
Other (Explain in Remarks)
4 [ ]
i <b>i</b> 1
>
92 / See
Westend Present? Tes No Dopti Unches) Westend Hydrology Present? Yes No (Includes context Present? Yes No (Includes context Present)

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VEGETATION (Four Strats) - Use scientific names of plants.	Sampiling Point, SP-21
	Dandranka Tee
ea Stratum (Plot size: 30' & Cover , Species?	
	That Are OBL, FACW, or FAC.
2	Total Number of Dominant
3	Species Across All Strate. (B)
, , , , , , , , , , , , , , , , , , , ,	
*	That Are OBL, FACW, or FAC. 100 (AR)
\$	
( )	
- Total Cover	D AND
50% of total cover 20% of total cover	
Septing Stratum (Plot stre. 19	FACW species x2=
	FAC species
	FACU species x 4 -
***************************************	***************************************
4	Prevalence Index * B/A *
	Hydrophytic Vegetation indicators.
7	1 - Paciel Test for Hydronitydic Veosisation
8	2 - Dominance Test to with the
	- Description by the Co.
- Total Cover	
50% of total cover 20% of	Morphological Adaptations (Provide supporting
-	deta in Remarks or on a separate sheet)
Soft an instance	CA (1), 1 Problemate Hydrophylic Vegetation" (Explain)
Trans.	
Course of the second se	_
The same is a second se	-
Wards war in the	Definitions of Four Vegetation Strate.
N - 10 - W	_
N O N	
2	100   heart
Z 2	
N 3	CACA Date of Date and control by the cacacaday where here
	Herb - At herbacous (non-woody) plants, regardless
C	_
201	Woody vine - All woody vines greater than 3.28 ft to
MACCOUNT ALL STREET (FIG. 12.	helgte
	ī
2	
	-
* ·	Hetrochark
5	Vegetation
- Total Cover	Present? Yes A No
S S	Ī
Remarks: (Include photo numbers have or on a separate sheet.)	
· ·	

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Sampling Point 59-2

Sampling Point C0-21	Salf (0)M		Hydric S	
	Profile Description. (Describe to the depth nected to document the industror or confirm the absence of indicators).  Depth Author St. 198 10 VE. 4  6	Types C_concentration, D_Depletion, RN+Rectuced Medits, MS-Masked Sand Grains 1,000     Helbs (1)     Helbs (1)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Helbs (2)     Similised Lyres (3)     Helbs (2)		
SOIL	Profes Description (Page 1972)	Types CConcentration, Dad Physics Soil insidemores: Helsood (A1) Helsood (A1) Helsood (A2) Helsood (A2) Helsood (A2) Helsood (A2) Helsood (A2) Helsood (A2) Helsood (A2) Helsood (A2) Helsood (A2) Helsood (A2) Helsood (A2) Sondy (Glegod Markt (S4) Sondy (Glegod Markt (S4) Sondy (Glegod Markt (S4) Sondy (Glegod Markt (S4) Sondy (Glegod Markt (S4)	Strong Marke (SA) Regificitive Layer (It discarred) Type Depth ("Cthes) Remarks	

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region $Madison\ Twp$ /

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Sold way Unit Name (2005)  Are channels: Introduces on the site pack for the time of year? Yea ———————————————————————————————————	Soll lives this Hame (20C.  Are chanted. Properties on the site typical for the time of year? Yea.  Are chanted. Prophogic conditions on the site typical for the time of year? Yea.  Are vegetation	Sol this Unit Name Cook was the site of the first of year? Yes X to I the description:  Are Vegatation Sol — Or Hydrology — Institute of Are Womal Counsistance's passent? Yes X to expect the North Counsistance's passent? Yes X to expect the North Counsistance's passent? Yes X to expect the North Counsistance's passent? Yes X to expect the North Counsistance's passent? Yes X to expect the North Counsistance's passent? Yes X to expect the North Counsistance's passent? Yes X to expect the North Counsistance's passent? Yes X to expect the North Counsistance's passent? Yes X to expect the North Counsistance's passent? Yes X to expect the North Counsistance's passent? Yes X to expect the North Counsistance's passent? Yes X to expect the North Counsistance's passent the North Counsistance	Landform (hillstope, terrace, et Subreccon (LRR or MLRA) L'	SP N 124 Lat 40 LATORUZA	
Are climate / hydrologic conditions on the site prized for the time of year? Yee   Are Vegetation Sol of Hydrology Present? Yee   Are Vegetation Sol of Hydrology Present? Yee   Are Vegetation Feesar? Yee   Are Vegetation Feesar? Yee   Hydrolyfier Vegetation Present? Yee   Hydrolyfier Vegetation Present? Yee   Hydrolyfier Vegetation Present? Yee   Hydrolyfier Vegetation Present? Yee   Hydrolyfier Vegetation Present? Yee   Hydrolyfier Vegetation Present? Yee   Hydrology Present? Yee   Hydrology Present? Yee   Hydrology Present? Yee   Hydrology Present? Yee   Hydrology Federal Present   Hydrology Present? Yee   Hydrology Hydrology Present? Yee   Hydrology Hydrology Present? Yee   Hydrology Hydrology Present? Yee   Hydrology Hydrology Hydro	Are climatic I hydrobogic conditions on the site hydrology — stynically disturbed? Are vironal Chounstancer present? Yeak No.  Surveyeation — Sol — or hydrology — stynically disturbed? Are vironal Chounstancer present? Yeak No.  Surveyeation — Sol — or hydrology — stynically disturbed? Are vironal Chounstancer present? Yeak No.  Hydrophier Vegetation Present? Yes X = No.  Hydrophier Vegetation Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  HYDROLOGY Whatind Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  Hydrologogic Hydrology Present? Yes X = No.  LUU 3: 19 S 9 3-5  Hydrologogic Hydrology Present? Yes X = No.  LUU 3: 10 No.  LUU 3: 10 No.  LUU 3: 10 No.  Hydrologogic Hydrology Present? Yes X = No.  LUU 3: 10 No.  LUU 3: 10 No.  Hydrologogic Hydrology Present? Yes X = No.  LUU 3: 10 No.  Hydrologogic Hydrology Present? Yes X = No.  LUU 3: 10 No.  Hydrologogic Hydrology Present? Yes X = No.  LUU 3: 10 No.  Hydrology Present? Yes X = No.  Hydrologogic	An elemptic hydrotogic conclions on the site yield for the time of year? Yea — fir an expelle to Remotic's 1948 — An elemptic hydrotogic conclions on the site yield for the time of year? Yea — An every departure — Soi — or hydrotogy — significantly deliunes; etc.  SUMMARAY OF FINDINGS — Altach site maps showing sampling point locations, transacts, important features, etc.  Hydrotogy Everytike Present? Yes — No — Is the Sampled Area  Hydrotogy Present? Yes — No — Is the Sampled Area  Hydrotogy Present? Yes — No — Is the Sampled Area  Hydrotogy Present? Yes — No — Is the Sampled Area  Hydrotogy Present? Yes — No — Is the Sampled Area  Hydrotogy Present? Yes — No — Is the Sampled Area  Hydrotogy Present? Yes — No — Is the Sampled Area  Hydrotogy Present? Yes — No — Is the Sampled Area  Hydrotogy Present? Yes — No — Is the Sampled Area  Hydrotogy Present? Yes — No — Is the Sampled Area  Hydrotogy Present? Yes — No — Is the Sampled Area  Sample Hydrotogy Present? Yes — No — Is the Sampled Area  Sample Hydrotogy Present? Yes — No — Is the Mark Marker (Si) — Sample Area (Si) — Sample Area (Si) — Hydrotogy Present (Si) — Sample Area (Si) — Sample Area (Si) — Hydrotogy Present? Yes — No — Depth (brothes) — Sample Area (Si) — Sample Area (Si) — Aparity Flaure (Si) — Sample Area (Si) — Aparity Flaure (Si) — Ap	Soll Map Unit Name (SOC-		ssficetton
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SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrodynine Vogetation Present?  Welsand hydrodogy Persons  Welsand hydrod	SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrothyte Vegetation Present?  Weight Sall Present?  Weight Freed Leave (89)  Aquet Faure (819)  Aquet Faure (819)  Aquet Faure (819)  Weight Freed Leave (89)  Aquet Faure (819)  Weight Freed?  Weight Present?  Weight Freed?  Weight Freed?  Weight Present?  Weight Freed?  W	SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrochyte Vegetation Present Yes X No		Ţ	Are 'Normal Circumstances' present? Yes
SUMMARY OF FINDINGS – Altach site map showing sampling point locations, transects, important features, etc.  Hydrothyke Vegetakion Present?  Weldand hydrobyy Present?  Weldand hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex  Primary Indianal Hydrobyy Pulcialex	SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transacts, important features, etc.  Hydrothysik Vegetation Present?  Welland Hydrobogy Present?  Ver X No.  Welland Hydrobogy Present?  Ver X No.  Welland Hydrobogy Present?  Ver X No.  Welland Hydrobogy Present?  Ver X No.  Welland Hydrobogy Present?  Ver X No.  Welland Hydrobogy Present?  W	SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transacts, important features, etc.  Hydrophyte 'Copation Present' Yes X No	- [	l	
### Present? Yes X NO	### Present? Yes X NO   Bit the Sampled Area	### Service Present?    19 Persent?   Vrs.   X   No   No   No   No   No   No   No	SUMMARY OF FINDIN	35 - Attach site map showing sam	pling point locations, transects, important features, etc
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90y Policeluss  3 (Inferioral Cost & required, check all this jetch)  1 (104)  1 (104)  1 (104)  1 (104)  2 (104)  2 (104)  2 (105)  2 (105)  3 (105)  4 (10	20 protice Loss  2 (members)  2 (members)  3 (members)  3 (members)  4 (A)  4 (A)  4 (A)  5 (A)  6 (A)  6 (A)  6 (A)  7 (A)  7 (A)  7 (A)  7 (A)  7 (A)  7 (A)  7 (A)  7 (A)  7 (A)  7 (A)  7 (A)  7 (A)  7 (A)  8 (B)  7 (B)  8 (B)  7 (B)  8 (B)  7 (B)  7 (B)  7 (B)  8 (B)  8 (B)  9 (B)  9 (B)  10 (B)  11 (A)  12 (A)  13 (A)  14 (A)  15 (B)  16 (B)  17 (A)  18 (B)  18 (B)  18 (B)  19 (B)  19 (B)  10 (B)  1	20 Prdicelurs  2 (Mehram of one & tealwest check at the section of	1W31958	3-5	
Weiturn Hydrology Folications   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates Abdeles   Sciolates   Sciolates Abdeles   Sciolate	Wedand hydrology Puticious   Wedand States	Weitland Hydrology Fractioners   Weitland Hydrology Fractioners   Weitland Hydrology Fractioners	HYDROLOGY		
Primacy Indicates (mining)   Costs (costs)   Primacy Indicates (mining)   Surface Soil Cocks (bb)	Phraot Indicators (mythmum of one is required, check and final statch)  Surface Soil Carcles (80)  Surface Soil Carcles (80)  High Webs Take (A2)  What Mark (81)  What Mark (81)  What Mark (81)  Phraams of Reduced in (C4)  Outside Rhizospheres on Uning Roots (C2)  One (Explain in Remark)  Managory (81)  Water State (	Primary Indicators (might)  Surface Set Creck (8b)  Surface Set Creck (8b)  Surface Set Creck (8b)  High Water Table (A2)  High Water Table (A2)  High Water Table (A2)  Water Water (B1)  Apair Deposit (B2)  Water Starten (B3)  Water Starten (B2)  Water Starten (B3)  Water Starten (B3)  Water Starten (B3)  Water Starten (B3)  Water Starten (B3)	Wetland Hydrology Indicate	SA	Secondary Indicators (minimum of two required)
Surface West (A1)  - Surface West (A1)  - High West Table (A2)  - High West Table (A2)  - High West Table (A2)  - Water Murbs (B1)  - Sediment Deposits (B2)  - Sediment Deposits (B2)  - Presence of Reduced fron (C4)  - Sediment Deposits (B2)  - This Much Surface (C7)  - Sediment Deposits (B2)  - This Much Surface (C7)  - Sediment Deposits (B2)  - This Much Surface (C7)  - Sediment Deposits (B3)  - Inhi Much Surface (C7)  - Sediment Deposits (B3)  - This Much Surface (C7)  - Sediment Deposits (B3)  - This Much Surface (C7)  - Sediment Deposits (B3)  - This Much Surface (C7)  - Subrative Water Present (C9)  - Subrative Matter (C9)  - Subrative (C	Suttace Wastr (A1)  High Webs Table (A2)  High Webs Table (A2)  White Marks (B1)  Schusding Found (B2)  Schusding Found (B2)  Wastr Marks (B1)  Schusding Found (B2)  Wastr Marks (B1)  Present of Reduced (B2)  Present of Reduced (B2)  Present of Reduced (B2)  Present of Reduced (B2)  Present of Reduced (B2)  Present of Reduced (B2)  Present of Reduced (B2)  Present of Reduced (B3)  Present of R	Suttace West (A1)  Thu Aqualic Penis (B14)  Source) West (A1)  Whit West Take (A2)  Hydrogen Suite of Core (C1)  Saturation (A3)  Water Marts (B1)  Presence of Reduced from (C4)  Water Marts (B1)  Presence of Reduced from (C4)  Source (B14)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced from (C4)  Presence of Reduced (C2)  Presence	Primary indicators (minimum	of one is required, check all that approve	1
High Water Table (A2)	High Water Table (A2)  High Water Table (A2)  Saturation (A3)  Saturation (A3)  Water Marks (B1)  Freshere on Living Roots (C3)  Freshere on Living Roots (C3)  Freshere on Living (B1)  Freshere (B1)  Freshere on C4)  Freshere (B1)  Freshere (B1)  Freshere (B2)  Freshere (B2)  Freshere (B3)  Freshere (B4)	High Water Table (A2)  Hydrogen Salibe Coor (C1)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Frederic of Reduction in Titled Softs (C3)  Frederic of Reduction in Titled Softs (C4)  Frederic of Reduction in Titled Softs (C4)  Frederic of Reduction in Titled Softs (C4)  F	Surface Water (A1)	True Aquetic Plants (	P
X standard (A3)	X Shruaton (43)  Outlined Ribboshes on Unity Robols (C2)  Section Liber (814)  Water Marks (81)  Main Marks (81)  Presence of Reduced from (C4)  Section Table (C2)  Confide Burroan (C3)  Thin Muck Surface (C7)  One (Explain in Remarks)  Sharation (Value on Aerial Imagery (C3)  Into Deposite (B3)  Into Deposite (B3)  Water Stained Leaves (B9)  Water Stained Leaves (B9)  Sharation (Value on Aerial Imagery (B7)  Water Stained Leaves (B9)  Sharation (Value on Aerial Imagery (B7)  Water Stained Leaves (B9)  Sharation (Value on Aerial Imagery (B7)  Water Table Present?  Vest No Depth (Inches)  Sharation (Aerial Test (C9)  Sharation (C9)	X standard (A3)		Hydrogen Sullide Od	
Water Present   Vest Month	Week Name (2)	Wash Mark 18   1		Oxidized Rhizospher	١
Drift Deposits (3.3)  — Apal Mat or Crust (3.4)  — Inthin Most (3.2)  —	Chi Deposite (13)  Agal Mai or Clust (18)  Agal Mai or Clust (18)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Agal Mai or Clust (19)  Again or Mai or Clust (19)  Agal Ma	Control Deposits (31)  Agal Mat or Crust (84)  Agal Mat or Crust (84)  Agal Mat or Crust (84)  Agal Mat or Crust (84)  Agal Mat or Crust (84)  Agal Mat or Crust (84)  Agal Mat or Crust (84)  Agal Mat or Crust (84)  Agal Mat or Crust (84)  Agal Mat or Crust (84)  Agal Mat or Crust (84)  Against Fauna (81)	Water Marks (B1)	Presence of Ketatoes	1
Maja Mati or Crust (B4)  Ion Deposits (B5)  Inn Deposits (B5)  Inn Deposits (B5)  Inn Deposits (B5)  Water Stated Leaves (B9)  Adult Faun (B13)  Field Observations.  Suisace Water Present?  Water Stated Leaves (B9)  Field Observations.  Suisace Water Present?  Water Stated Deposits (B12)  Field Observations.  Suisace Water Present?  Water Stated Deposits (B12)  Field Observations.  Suisace Water Present?  West Stated Observations.  Suisace Water Present?  West Stated Observations.  Suisace Water Functions.  West Stated Observations.  Suisace Water Present?  West Stated Observations.  West Stated Observations	Agai Mai or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B5)  Iron Deposits (B5)  Iron Deposits (B5)  Iron Deposits (B5)  Iron Deposits (B5)  Iron Deposits (B7)  Adurtic Faunt (B13)  Fivid Observations.  Surrace Water Present?  Ves No X  Depth (Inches)  Surrace Water (B7)  Western (B13)  Fivid Observations.  Surrace Water (B7)  Western (B13)  Fivid Observations.  Surrace Water (B7)  Western (B13)  Forched	Apal Mail or Crust (Ba)	Friti Denosiis (33)	Thir Mock Surface R	(on) such name in
Seconorphic Position (D2) Statum Aquitard (D3) Microtopographic Relea (D4) AAC-Necural Test (D5)  Kingy Present? Yes	Seconorphic Position (D2) Statum Aquitard (D3) Microtopographic Relief (D4) AC-Neutral Test (D5) Augy Present? Yes	Seconorphic Position (D2) Statum Aquitard (D3) Minotopographic Reted (D4) AG-Neutral Test (D5) Ag-Neutral Test (D5)	Application Crust (B4)	Other (Explain in Rev	 ₽
Status Aquitard (0.0) Microtopographic Relea (0.4) FAC-Neward Test (0.5)  togy Present? Yes	Status Adultard (0.0) Microtoporapite Relea (0.4) AG-Neutral Test (0.5) Agy Present? Yes	Statew Aquitard (0.0) Microtopographic Relea (0.4) AG-Neutral Test (0.5) Agy Present? Yes	Iron Deposits (BS)		Geomorphic Position (D2)
Markhopographic Reled (D4) FAC-Neudral Test (D5) Eugy Present? Yes	Markhopographic Relied (D4) FAC-Neudral Test (D5) bggy Present? Yes	Markhopographic Relied (D4) FAC-Neudral Test (D5) bgy Prescent? Yes	Immediation Visible on Acr	al Imagery (B7)	Shallow Aquitard (D3)
Logy Present? Yes	bgy Present 7 vs X	bgy Present 7es	Water-Stathed Leaves (6	6	Mitrotopographic Relief (D4)
koy Present? Yes X	May Present? Yes	bay Present? Yes X	Aquetic Faura (613)		LAUMONIAN I CA (US)
kogy Present? Yes X	koy Present? Yes X	May Present? Yes	Field Observations.	×	
bgy Present? Yes X	bogy Present? Yes	boy Present? Yes X	Single Water Present	  } 	_ -
The same of the sa		The state of the s	AND AND AND AND AND AND AND AND AND AND	     	X and Comment Company of the Comment
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections). If evaluable:	Describe Recorded Dala (stream gauge, monkoing weit, actal photos, previous inspections). If available in processing the stream gauge, monkoing weit, actal photos, previous inspections). If available in the stream gauge in the	Describe Recorded Data (stream gauge, monitoring went, mettal photos, previous inspections). If available: Remaths.	(includes capitary fringe)	, es , a	Tal Impediation
	Banaite	Remarks.	Describe Recorded Data (stri	am gauge, monitoring weit, aertal photos, pre	vious inspections). If available:

US Army Corps of Engineers

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Eastern Mountains and Precincit - Version 2 0

Total Cover   Total Number of Bornhand Species   Total Cover   Total Number of Bornhand Species   Total Cover   Total Number of Bornhand Species   X1 =	# of total cover	Total Cover   Total Cover	Tree Streum (Pick size 20 ) Second Street Domina	Absolute	2 %	Status		11
104   104	20% of total cover 120	20% of total cover 200   12% of the tower 200   12% of total cover 200				4	7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_
Part   Part   Part	20% of total cover 200 of the page of total cover 200 of total cover 2	20% of total cover 20	1				4	_
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20% of boat cover   104	20% of bold cover 10% of bold	20% of total cover 20   15% of total cover 20% of t					İ.	1
FACTOR   CONTROL   FACTOR	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Total Cover 20 of 124 o	1000		Total Cover		Cover of	
Total Cover   Total Cover	104   Cover   104   Cover   105   Cover	10	The street of th	42	coult cover			
10   10   10   10   10   10   10   10	10   10   10   10   10   10   10   10	10   10   10   10   10   10   10   10				-		
10th Cover   10t	104   Cover   104   Cover   105   Cover   Co	10   10   10   10   10   10   10   10						
100% of bial cover   100% of b	102 Const.   102 Const.   102 Const.   102 Const.   102 Const.   102 Const.   102 Const.   102 Const.   102 Const.   102 Const.   103	104 Cover 20 149 C						e
1012 Cong   1012	10% of bial cover 10% of bias over 10% o	10% of blei cover 20 West of total cover 20 W					ă	
104 Cover   104 Cover   105	104 Cover   104 Cover   105	100 V OEL ONE ON ON ON ON ON ON ON ON ON ON ON ON ON				1	Hydrophylic Vegelation Indicators:	
10tal Cover   10tal Cover	10tal Cover   10tal Cover	1 Total Cover 10 Weep 1 Total Cover 10 Weep 1 Total Cover 10 Weep 1 Total Cover 10 Weep 1 Weep 1 Total Cover 10 Weep 1 Weep 1 Total Cover 10 Weep 1 W				-	1 - Rapid Test for Hydrophytic Vegelation	
104 Cover 104 Cover 105 C	104 Cover 104 Cover 105 C	100 V 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					2 - Dominance Test is >50%	
10% of blair cover 10% of blair	Cot of total cover 20 West of total cover 7 Cot of	10% of bala cover 10% 10% 10% 10% 10% 10% 10% 10% 10% 10%			Total	-	3 - Prevalence Index is x3 01	
O V OSL D Total Cover TO	O V OSL D V DILLOW O'N of total cover 20	O V OSL		20% 0	olal cover	-	4 - Morphological Adaptations' (Provide suppo	P
O O O O O O O O O O O O O O O O O O O	O O O O O O O O O O O O O O O O O O O	O L FILLS ON of total cover 120 Total cover 12		ŕ		•	data in Remarks or on a separate sheet)	
M. Total Cover 28  Total Cover 78  Total Cover 78  Total Cover 78  Total Cover 78	O N FRC	O M MAC	Sens.	2 2		18 18 18 18 18 18 18 18 18 18 18 18 18 1	— Fruesemane reyaroproyue vegetaktor (Explain)	
Os of total cover 20	O's of total cover 20  Total c	OS of total cover 200	T	9	2	전 기	Praceiors of hydric soil and welland hydrology mu- be present, unless disturbed or problemate,	
Os of total cover 23  Total cover 700 Total co	O's of total cover 20  Total cover 20  Total cover 20  Total cover 20  Total cover 20  Total cover 20	Of of total cover 200 Total cover 755 of total cove					Definitions of Four Vegelation Strata.	ł
10 - Total Cover 10 OS of total cover 10 OS of tota	10 - Total Cover 20 OS of total cover 20 OS of tota	Os of total cover 20			İ		Tree - Woody plants excluding whee, 3 in (7 & cm more in dameter at breast height (DBH), regardles	8 -
10% of total cover 100 osk of total cover 100 osk of total cover 100 osk of total cover 100 osk of total cover 100 osk of total cover 100 osk osk osk osk osk osk osk osk osk osk	1) Total Cover 1/3 0% of total cover 1/3  Total Cover 1/3 The of total cover 1/3	Os of total cover 1.0  Total Cover 1.0  Total Cover 5.6 of total cover 5.6 of total cover 5.6 of total cover 5.6 of total cover 5.6 of total cover 5.6 of total cover 5.6 of total cover 5.6 of total cover 5.6 of total cover					Transport.	
0% of total cover 2.0  10. Total cover 2.0  Total cover 7.0  Total cover 7.0  Total cover 7.0  Total cover 7.0	O's of total cover 13	O's of total cover 2.0  O's of total cover 2.0  Total cover 5.6 of total cover			j		Supergrafting – Woody plants, excluding vines, le than 3 in DBH and greater than or equal to 3.28 it in that.	
0% of total cover TA	0% of total cover TA	0% of total cover 120					Herb - All herbacoous (hon-woody) plants, neurals	
Total Cover	Total Cover	• Total Cover	Some of total contract		Total Cover	3	of size, and woody plants less than 3.28 ft tall	
Hydrophyte  Total Cove  Stories over	+yde ophytic Hyde ophytic Vogelation Pos X	** Total Cover**  ** of total cover**  ** of total	30,	ŀ			Woody wine – All woody wines greater than 3 28 ft. height	
+ Hydrophytic Vogelation Person 7 Yes X	Hydrophytic Vogelation Yes X	• Total Cover Present? Yes X				1		f
+ Hyde ophythe Vogelation Vos X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	+ Total Cover Present?	• Total Cover Present? Yes X						
Fresent? Yes X     Fresent? Yes X	- Total Cover Present? Yes X	* Total Cover Present? Yes X					Helicophyte	
- Total Cover 1985 of total cover	• Total Cover	• Total Cover				}	>	
	clude princip numbers here or on a separate sheet.)	clude photo numbers have or on a separate sheet.)	50% of Idal cover	1	Total Cover	}	Į E	

Eastern Mountains and Pledmort - Version 2.0

Technology Sources Sensits	** Ocellon PtPore Llang Ma Meita holiselator for Problematic Hydric Solis*  Coasi Pratie Redox (A16) (MLRA 147, 147)  West State 147, 148)  Partment Floodiela Sols (F19) (MLRA 134, 147)  Very Shalow Dest Sustess (F12)  Very Shalow Dest Sustess (F12)  Very Shalow Dest Sustess (F12)  Welfard hydrotyp must be present,  welfard hydrotyp must be present,  which Soil Present? Yes X No	
Profile Description (Describe to the depth needed to document the inclusion of confirm the absence of inducedors)  Depth Metric Sequence Sequence Sequence of confirm the absence of inducedors)  Depth Sequence S	DuDepietton, RM-Reduced Matrix, MS-Masted Sand Grain 4 or Polyvatu Below Surface (St)    Dunt Surface (St)	
Profile Description Describe to the depth Described Metric Coordings No. 100 Profile 100 P	Typer CCorcentration D-Depletion, Plat- Hydric State of Indicators Hydric State of Indicators Hydrocoper State of Indicators Hydrocoper State of Indicators Hydrocoper State of Indicators John March Where of State of Indicators Thick load States of Indicators Standy March Where Indicators Standy March Where Indicators Standy Reduct (State) Standy Reduct (State) State of Indicators State of Indicators Type Depth (Inches)	

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Predmont Region Hellow Crock Tup/

Projects in South Teld Energy Interconnection Techniq concount Apparentomer Tetra Techniques Court	Interconnection Becliff conc	outhy Colu	Columbation Co. Sampling Date: 914/15
Landform (hillstope, terrace, etc.)	total rel	Local relief (concave, convex, none)	Section, comissing, neinger and section (1) Stone (%)
Subregion R.R.R. on M.R.A.) LEP NIEW Lat 40-140-799	PPT-0HO-141 WILL	Front	115.32J
Soil Map Unit Name' Led. (US MCC)	or SH loamson by	VCOUT STORES	NWI classification
Are Venefation . Soil . or flythology shall shall be the distribution .	s on the special of age une of year 1 test.  or Petrology skonline is specificantly disturbed?		No (if No, experient in Remarks)  Are Thorness Disturbances reason? Ver
3	í		1
SUMMARY OF FINDINGS - AL	tach site map showing sam	pling point tocatio	SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophyttc Vegetation Present?	Yes	k the Sampled Area	,
Hydric Soil Present?		within a Wetland?	Yes No X
Remarks. Pashure / Lawn	W.M		
L-808.81			
HYDROLOGY			
Weltand Hydrology Indicators			Secondary Indicators (minimum of two recurring)
Primary indicators (minimum of one is required; check all that apply)	required, check all that anoty)		Surface Soll Cracks (B6)
Surface Water (A1)	True Aquatic Plants (814)	814)	Sparsely Vegetated Concave Surface (BB)
Saturation (A3)	Oxidized Phicosophers on L	Hydrogen Suince Coor (C1) Oxidized Rhizzscheres on Living Books (C1)	Moss Trim (1986)
Water Marks (B1)	Presence of Reduced Iron (C4)	Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent from Reduction in Tifled Solfs (C6)	n in Tifled Souts (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	E	Saturation Visible on Aerial Imagery (CV)
Littor Deposits (85)	Care (cyben iii kei		Geomorphic Position (D2)
Frundation Visible on Aerial Imagery (B7)	m (81)		Shallow Aquitard (D3)
Water-Stained Leaves (89)			Microtopographic Reflet (D4)
Aquelic Fauna (B13)			FAC-Meutral Test (DS)
Field Observations Surface Water Dratent? Ves	X		
		 	>
Saluation Present? Yes	No X Depth (Inches)	Wetland	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, montoning well, aerial photos, previous inspections). If available	e, monitoring well, aerlal photos, pre	rious inspections), if ava-	Ratie
Remarks			

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SON of total cover [2] 20% of total cover [2] 10% of total cover [2] 20% of total cover [2]	VEGETATION (Four Strata) - Use scientific names of plants	ames of plants		Sampling Fourt
ON O WAS COMES COM	Tree Stratum (Piot size 30.	Absolute Dominari	Sinus	0
104 Cong   104 Cong	4			-
104 Cover   104 Cover   105	, 4			
10   10   10   10   10   10   10   10				d
10   10   10   10   10   10   10   10			Ī	Prevalence Index worksheet.
1   1   1   1   1   1   1   1   1   1		- Total Co		Cover of
7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	50% of jotal cover	20% of total cove	ĺ	=
1   1   1   1   1   1   1   1   1   1	SapingShub Statum (Piot size 15)			4
1   1   1   1   1   1   1   1   1   1				94
1   1   1   1   1   1   1   1   1   1				-
10   10   10   10   10   10   10   10			Ī	5
1   1   1   1   1   1   1   1   1   1			Ī	
Control   Cont		]   	<u> </u>	-11
104 Cover   104 Cover   105	,			Aydrophytic Vegelation Indicators.
104   Cover	e6			1 - Kapa Test of Hydrophytic Vegetation
10   10   10   10   10   10   10   10				A LOCAL MARINE SECTION OF THE PROPERTY OF THE
C   C   C   C   C   C   C   C   C   C	!	- Total Co	<u> </u>	3 - Prevalence Index is x3.0*
S N ENCH.  PACH ENCH.  No of total cover 20		20% of total cover		+ mur protogress Adalpations (Fronde suppo
S of trial cover	5	7		Come in remarks or on a separate sheet
Total Cover	Voa pratrinsi	2 2	Z	Prochematic Mydrophyric Vegetation (Explain)
Total Cover	Tarayacum	1	E E	
Total Cover 18, of total cover 1	- 1	4	3	Indicators of hydric soil and weitand hydrology mube present lankest disturbed or provisoration
78 of total cover	Viantago	i	1	Definitions of Four Vegetation Streis:
7% of total cover	ועלשאומר	i	3	
Total Cover 20	•		1	TIME - MODOY DIRING, EXCILIDARY WINES, 3 In. (7 & CH More in dismeter at breast height (DBH), regardes
3% of trial Cover 20				height
7% of total cover	9		-	Sapting/Shrub - Woody plants, excluding vines. It
74 of total cover	· · · · · · · · · · · · · · · · · · ·			then 3 in DBH and greater than or equal to 3.28 it
7% of Islas Cover 20			[	m) kall
3% of telel cover 20	- W.	100	ī	Herb - Al herbaceous (non-woody) plants, regard
Total Cover		Total Co		of size, and woody plants less than 3,28 ft late
No of total cover	20 to 10 to	L ZUTE OR ICHAI COVOR	    }	Woody whe - All woody wees greeter than 3.29 ft
Total Cover Present 7 Yea	ACRE MALE TRANSPORT (LANG.			Neight
# Total Cover Present? Yes				
# Total Cover Present? Yes				
* Total Cover Present? Yes	*		-	
* Total Cover		 	Ī	tydrophytic
N of total zover.		Total Co.		Yes
Remarks (include proto numbors have or on a separate shoot)	50% of total cover	20% of total cover		
	Remarks (Include photo numbors here or on a separate sh	(3)		

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Eastern Mountains and Pleamont - Version 2 o

Sampling Point 23

Sampling Point 23	rece of indicators.)	Nocation: PL-Poe Litrig M-Maint. Indicators for Problemsatic Hydrt Solis.  2 cm Muck (A10) BAILRA 147)  48) Coost Present Record (A10)  (MLAA 147) 148)  Pedrawit Floodsein Solis (F19)  (MLAA 147) 148)  Very Stadion Wells 147)  Other (Explain in Remarks)  And Solid Present of Hydrology must be present, unless disturbed or problemsit.  Hydric Soli Present? Ves No	
	Testure 100 CC	A Local	
	Profits Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)  Destination (Described in the depth needed to document the indicator or confirm the absence of indicators.)  Destination (Described in the depth needed to document the indicators.)  LC  1046519 76 1040518 30 C. M. LC.	Type C-Concentration D-Despetion, Rikk-Reduced Majrit, MS-Mass-ed Sand Grains.   100	
SOIL	Profile Description (Describe to the dep Description (Describe) & Describe to the dep Describe to the total of the total o	1799 CConcentration D-Deperton, Risk Historia (41) Historia (52) Historia (42) Historia (52) Book Historia Sundy Muccy Mineral (51) The Depicted Below Dark Surface (411) The Depicted Below Dark Surface (411) The Depicted Howard (51) The Depicted Below Dark Surface (411) The Depicted Howard (51) Sundy Muccy Mineral (51) (LRR N, MILRA 147, 148) Sundy Review (55) Sundy Review (55) Sundy Review (55) Sundy Review (55) Restifictive Layer (67 observed) Type.	

### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Investigant cotal			
dal management	Canada Sa	Section, Township, Names:	205, 1 lun, per
Lendom (namos, temos, etc.);	(depression	Local Rated (consume, comme, name):	me): contains Blope (%):
Submotion 0 FFS or M. RAY		`	0 708569 Deturn
		,	
Are dimeticity thought condition. Are Vegetation	Are cimmétalydrologic conditions on the site hypital for his time of year? Are Vegetation . Soil . Soil . or Hydrology	ignificantly disturbed?	100
]	or Hydrobogy		Yes X No.
SUMMARY OF FINDING	SUMMARY OF FINDINGS - Attach also map showing sampling point locations, transects, important features, etc.	ling point locations, transects,	Important features, etc.
Hydrophytic Vegetation Present?	X 88% X	Page Samole	
Hydric Soll Present?			N ×
Wedged Hydrotogy Present?	\ !		
Remeter			
PEM Original name BSdby25P2	248		
HYDROLOGY			
Wettend Hydrology Indicators	75.		Secondary Indicators (minimum of two required)
Primary indicators (minimum of on	himsey indicators (minimum of one is required; check as theil apply)		Surface Soil Crecks (Bd)
X Surface Wester (A1)	True Aquel	True Aquatic Plants (814)	Spensely Vegateded Contains Burlace (84)
High Waster Toolse (A.2)	X Hydrogen 8466s Odar (C1)	URide Order (C1)	Drahage Patterns (B10)
Setundan (A3)	X Oudbrod R	Outlined Phinospheres on Living Roots (C3)	Hose frim Lines (814)
Water Marks (81)	Population	Presence of Reduced Iron (D4)	Dry Seaton Weder Table (CZ)
Sectional Deposits (82)	Company regularity	Federal from Proposition in 1984 Octob (CS)	Section Cable on Acres (20)
		Colore di cultura de la colore	Surject or Streets (Parts 104)
		(C. C. C. C. C. C. C. C. C. C. C. C. C. C	X Germontis Position (1)2
A Property Company of the Company of	(B)		ì
			X selecotopognegate Paulas (D-6)
Aquette Feune (B13)			FAC Namen Total (DS)
٠.	×	Dayth (Inches): 05	
2	}	Depth (Inches):	nd Hydrology
	£	Depth (Inches):	
(includes capitary frings) Describe Recorded Data (stre	(nosides capitings). Describe Recorded Data (stream gauge, monitoring well, serial photos, previous hapechors), if evaluate.	previous Inspections), if evaluable.	
Remarks			
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Strata)
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TATION
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Sempling Point 24	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACH or FAC: 2 (A)	Total Number of Dominant Species Across At Strais.	Percent of Dominari Spacies That Ass DRL, FACW, or FAC 100.00% (A/B) Prevelerics Index vectablesic	Total % Cover of   MANBOY DY	Prevalence Index = B/A = #Dyv.0!	hydrophyta Vagetalion Indicators  - I-Reput Test the Hydrophyte Vagetalion  X 2 - Dominimos Test to 450%  X 3 - Perumanos Test as 450%  - A test to 450%  A test to 450%  - A	data in Remarka or on a septembrative) Problement: Hydrophysis Vegetation's (Explant) Indications of hydro and wedened hydrotoge must	De present, unless delutried or problematic Definitions of four Vergesdoon Busin. Tree - Woody plents, excluding virus. 3 in (7.6 cm) or Tree - Woody plents, excluding virus. 3 in (7.6 cm) or Tree in deminister at Drees the Spirit (2014), regardless of height.	Suppling - Woody parts, excluding woody view spoolership 20 8. (6 m) or more in height and less fluid 3 h. (7.6 m) 0584-1. (8 m) or more in height and less fluid 3 h. (7.6 m) 0584-1. (8 m) or more in height and less fluid 3 m) or magnit. (1 to 6 m) in height. (9 m) himsgrid.	of sizes, and woody plants have than 3.28 it tall. Woody Vines - All woody vines grupter than 3.28 it in height.	Hydroskyte Vegetation Present? Yes X No	
names of plents.	Abeolule Dominent Indicator N. Cover Specient Status		0 = Total Cover		Ιİ		0 = Total Cover	40 Y OBL 30 N OBL 10 N OBL		150 = Total Cover	0 = 10dd Cover (is these.)	
VEGETATION (Five Strats) - the acientific names of plents.	na Syphem (Phot elem: 307)		Sambay Stratum (Prix Stree 15 )		Shade Stradum. (Plot Sterr. 16")	X 8 * 9 *	Prot atm. 6"1"	Curax brida Curax vidpinoides Typhe enguethile		(2	Woods Vita Strature (Pot else 37)	

Essiem Mountains and Pletmont - Version 2.0. US Army Corps of Engineers

Eastern Mountains and Plackmont - Varsion 2 0

				ĺ			
Profile Descr Deoth	ription (Describe to	the dept	h needed to docum	ent the indicat Recor Feetings	cator or co	affern the A	Profile Description (Geschibe to the depth needed to document the indicator or confirm the absence of indicators.)  Doots Merits Merits
(Inches)	Color (motet)	-	Color (moist)	*	- <u>e</u>	J J	Texture Remerks
6	10VR 2/1	ş					poet
7	10'R 3v	8	10YR 2/2	9			mucky peak
4.7	Gleyd 3/10Y	122	7 5YR 4/6	و	υ	3	barryday
7 10	Glayt 4/10Y	5	7 5YR 4/8	•	٥	Σ	to annicitary
10-13	Glay1 5/10Y	8	10YR 4/8	1	o	*	barriday
Type Cycon	Type O-Concernation, D-Durdeton, Rive-Backood Naths, MS-Meshed Sand Grains	RM=Redy	Oed Matrix, MS-Mestr	ed Sand Grai			Stocetor Pte Pow Lining, Me Metrix
Hydric Boll Indicators	Meabon.						bedleutern for Problemedie Hertrie Beilin
Hetoed (A1)	<b>(</b> )		Derk Surface (S7)				2 on Much (A10) (MURA 147)
Heds Ep	Hedic Epipedon (A2)		Polyvake Below Surface (SS) (MLRA 147,148)	Surface (S8)	(MLRA 147,	<b>1</b>	Coast Prairie Redox (A16)
Herox Fleur (A3)	Black Heac (A3) Hathman Sulfide (A4)		X   come Class March (C2)	20 (30) (10LX	AIC. TAL		Charles of the state of the sta
Specific	Stratified Layers (A5)		X Depleted Matrix (F3)				(MLRA 134, 147)
2 cm Muc	2 cm Muck (A10) (LRR N)		Redox Derk Surface (F6)	lacte (FB)			Very Shellow Derk Burlace (TF12)
	Depieted Below Dark Surface (A11)	_		urface (F7)			Other (Exploin in Remerks)
	Thick Dark Surface (A12)		Radox Depressions (FB)	one (F8)			
MILEA 1	MORA 147, 148)		MI RA 1361		) (Live a		
Sandy Ga	Sandy Gleyed Metric (84)		Umbric Surface (F13) (MLRA 136, 122)	(F13) (MLRA	134, 122)		Indicators of hydrophytic vegetation and
Sandy Radox (SS)	dox (SS)		Pedmont Floodplein Solls (F19) (MLRA 148)	April Solls (F1	D) (MLRA 14	=	wetland hydrology must be present.
N paddus	Serbped Matrix (S0)		Red Parent Material (F21) (MLRA 127, 147)	ring (F21) (IM)	.RA 127, 167	_	unless disturbed or problematio.
Restrictive	Restrictive Layer (If observed).					ſ	
1							
Dapth (Inches):	flee);						Hydric Boll Present? Yes X No
							}
_							
_							

### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Applicant/Owner	Tetra Tech	***	OH Sempling Point SP-25	ı
Investigator(s):	8 Staby	Section, Township Range:	\$30, TBM, R2W	1 1
Landform Paletope, terrace, etc.):	mound Local	Local Relat (concere, consts, nove):	convex Slope (%):	ı
Subregion (LPR or MLRA):	*	þej		ı
	Ž	[ ]	aufforter:	
Are dimetic/hydrotogic conditions on the aite hydral for this time of year?	to typical for this time of year?	×	۔ ا	1
Are Vegetation , Soil x	or Mydrology X significantly disturbed?		Na "Normal Circumstances" present?	
Are Verselation	or therefore a second s		2 ×	
	Afternational features (Constitution of the Co		(if the cont, tapina) any artement of from the	
ARY OF FINDINGS - Attach a	SUMMARY OF FINDINGS - Attach sits map showing sampling point locations, transects, important features, etc.	ocations, transacts, impo	tant festures, etc.	
Hydrophylic Vegetation Present?	× Q	A De Service		_
Hydric Soil Present?	×[,	_	×	
Remarks.	ı	-		_
od Lever. These economic to be fush	had be the second and broken makes and the bad	A second	alitability of Paris access to be bridged at this several and booking, which is the controls on an artist science in the color of the c	
				_
HYDROLOGY				1
Wedand Hydrology Indicators.		 	Secondary indicators (minimum of two required)	Г
himmy indicators (minimum of one te required; chack all that apply)	weak of their sapisty)		Surface Sol Create (BB)	_
Burlace Weder (A1)	The Aquete Plants (814)		Speranty Vegetated Concess Stafface (B8)	
High West Table (A.2)	Hydrogen Builds Odor (C1)		Oralinge Patterns (B10)	
Seturator (A3)	Outlined Phissaphaese on Living Reola (C3)	wing Reola (C3)	Mone Tith Lives (816)	
	Presence of Reduced from (D4)	₹	Dry-Seamon Willey Table (CZ)	
Committee Controlled (BC)	Machine Reduction in The Sole (US)	40 Bolle (CS)	Caryfiel Burrows (CB)	
Aber Met or Onet (34)	Other Canada in Security		Strate or Orested State State	
Inton Deposite (BS)			Geomorphic Position (D2)	
Fundation Vietbe on Aarts Imagery (87)			Shellow Aquitand (CO)	
Webs-Suhned Leaves (89)			Minostopographic Pader (D4)	
Aquesto Peterna (B13)			PAC-Neutral Test (DS)	_
Field Observations.		-		_
Surface Water Present? Yes	No Depth (Inches):			
Water Teble Present? Yes	No Depth (Inches):		Wettend Hydralogy Present?	
Seturation Present? Yes	No Depth (inches):		×	
(includes capitary frings)				<del>-</del> -r
Recorded Data (streem gauge mo	Describe Recorded Data (streem gauge monitoring wed, senisl photos, previous imprectors). If evaluable:	ctons) if available:		
				_
				_

(Ptd ebs)

rksheet: Species	J. J. J. J. J. J. J. J. J. J. J. J. J. J	Take .	Species r or FAC:		֓֞֞֜֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	0 x 2 x	105 × 4	2 x 6		Prevalence Index = 8/A =	Bon Indicators:	1 - Maple 188(10) Hydrophysic Vegeta
Dominance Test worksheet: Number of Dominant Species	Total Munder of Designati	Species Across At Strate.	Percent of Dominent Species That Are OBL, FACW or FAC.	Prevalence Index upritational: Total % Cover of	OBL species	FACW species	FACU species	UPI, apacies		Prevalence	Hydrophyde Vegetation Indicators:	
Indicator					}				}	ı		
Domment Species?			= Total Cover			Í		İ	= Total Cover	i		
Absolute % Cover						1						
) ]				(Plot Stere 15"						(Plot Sign: 15"	1	
Statugo (PRoteizer 30")					1					(Plot S		
Shifted	$\ \cdot\ $	[		ng Stratum,			$\  \ $			Straum		

0 00% (A/B)

Sampling Point

VEGETATION (Five Strats) - Use scientific names of plants.

1) Indicators of hydric and aveland hydrology must be present, unless distribution or problematic.	FACU Definations of Four Vogetation Stratz: FACU Time - Woody plants, excluding vines, 3 in, (7.6 cm) or more in demonster at breast height (CBH), regardless of height.	Beging Woody plants, concluing woody views, expressively 30 B, (8 m) of more in height and less than 3 in (7.6 cm) UGH Bhrush - Woody plants, excluding woody views, aproximately 3 to 20 R (1 to 6 m) thinght.	Herb All harhonous (non-woody) plants, regardees of leas and woody plants hee than 2.0 it les. Woody Vinnes - All woody whee greater from 3.28 it in height.	Hydrophydd Vogelddon Procedig Y
FACU	₹ ¥ ×		- Total Cover	

(Ptot etce 30°)

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Eastern Mountain and Pledmork - Version 2.0

SOff			Sempling Point 25
Profile Description: (I	Describe to the deg	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	ebsence of indicators.)
Dept.	Color (moist)	Codes (modes) 6. Terms 1 1 mg	Terton Omenda
	¦ 		
2 6			weq
Type: CeConcentration,	D-Depletion, RM-Ray	Type: O=Concentration, D=Depletion, RN+Reduced Mathx, MS=Mesked Sand Grains	*Location: PL= Pore Lining, M=steering
Hydrie Boll Indicators.			Indicators for Problematic Hydric Bolis <sup>2</sup>
Hatoed (A1)		Derk Surface (S7)	2 cm Muck (A10) (MURA 147)
Black Histic (A.3)		This Dark Surface (SS) (MLRA 147,148)	Coest Prairie Redox (A16)
Hydrogen Suilide (A4)	_	Loanny Olayad Matrix (F2)	Phadrenors, Phoodplein Bolle (F19)
Striktled Layers (AS)	S	Deplement Marker (F.3) Restore Dark Students (F.3)	Very Strategy Bod By Street Control
Deptered Below Dark Surface (A11)	Surface (A11)	Depleted Dark Surface (F7)	Other (Explain in Remarks)
Thick Dark Surface (A12)	42)	Redox Depressions (FB)	
MLRA 147, 148)	(a) (con u.	MLRA 136)	
Bendy Gleyed Meets (S4)	(34)	Umbric Burlace (F13) (MLRA 134, 122)	*Indicators of hydrophytic vegetation and
Stripped Matrix (S6)		Padmont Floodplain Sole (F19) (MLRA 148) Red Perent Meterial (F21) (MLRA 127, 147)	wedland hydrology must be present, unless disturbed or problematio.
Restrictive Layer (if observed)	eved)		
(Inches):	dest me rocky re	1 1	Hydric Boll Present? Yes No X
			!

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# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

A Company (company)	24.10	Section, Township, Range	Investigator(s) Lock to 1/2. Total Section. Township, Range 524, TGM, R2W.	
Landform (hillstope, ferrace, e		rellef (concave,	onvex, none)	Stope (%)
Subregion (LRR or MLRA) LPR N 124	PRN IZY LA MONTONTA	577	1	Destum. 11.05 644
Soil Map Unit Name Chit	Soil Map Unit Name FIDD GILGRANT VERA CHARGING SHELDARY, O'BY STORES. NWI dessitication	CHISM OF	STORES NWI clessification	
Are climatic / hydrologic condi	Are climatic / hydrologic conditions on the site typical for this time of year? Yes	ne of year. Yes X	No (Wino, explain in Remarks )	
Are vegetation 504	- a Hydrobog		Are thormal Circumstances' present? Yes	X §
Ave Vegetalion	Wandah B	naturary problematic? (I	(if needed explain any answers in Remarks.)	~
SUMMARY OF FINDEN	IGS - Attach site map sho	owing sampling poin	SUMMARY OF FINDHIGS - Attach site map showing sampling point locations, transects, important features, etc.	: features, el
Hydrophylic Vegetation Present?	ent? Yes No.	× ×	24,600	
Hydric Soil Present? Welfand Hydrothox Present?	20 20 30	within a Wedand?	Jand7 Yes 150	لہ
Remarks				
open field				
				į
HYDROLOGY				
Welfand Hydrology Indicators	ers		Secondary Indicators (minimum of two received)	of two recurrent
Primary indicators (minimum.	Pitmary Indicators (minimum of one is required, check all that apply)	acocký	Surface Soil Cracks (B6)	
Surface Water (A1)	True Aqu	True Aquatic Plants (B14)	Soursely Venetated Course Surface (393)	e Surface (BB)
High Water Table (A.2)	Hydrogel	Hydrogen Sulfide Odor (C1)		fresh designation and
Saturation (A.3)	Peziphko —	Oxidized Rhizospheres on LMng Roots (C3)		
Water Marks (B1)	Presenta	Presence of Reduced Iron (C4)	1	17
Sediment Deposits (B2)	Recent	Recent fron Reduction in Tilled Soils (C6)	1	
Athel Mercer (Bas)	Thin Muc	Thin wuck Surface (C7)	Saturation Visible on Aertal Imagery (C9)	Imagery (C9)
- Age met or cross (set)		Office (Explain in Remarks)	Shurled or Siressed Plants (01)	Ē
Inundation Visible on Aerial Images (87)	fall Imageon (87)		Geomorphic Position (D2)	
Water-Stained Lauves (B9)	6		Microtronocembie Delection	_
Aquatic Fauna (B13)			FAC-Neutral Test (D5)	
Field Observations	,			
Surface Water Present?	- 3	nches)		
Water Jacks Present	AN - NO - NO - NO - NO - NO - NO - NO -	ighes).		}
Saturation Present? Orchydes candlary (finne)	Yes No Depth (inches)	v less	Wetland Hydrology Present? Yes	× 1
Describe Recorded Data (stre	Describe Recorded Data (stream gauge, monitoring well, berial photos, previous inspections) if available	pholos, previous inspection	S) Kavalable	
Remaris				
!				

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			Domination Test workshop
Tree Stratum (Plot stze:	Absolute % Cover.	Species? Status	
2			That we OBL, FACW, or FAC. (A)
			Total Number of Dominani Species Across All Strata. (B)
6			Percent of Dominant Species That Are OBL, FACW, or FAC. (A/8)
<b>5</b>			Prevalence Index worksheet
Telegraphic 2008	20%	- Total Cover	OBL species x1 x1
Sacting Stratem (Hot size, 15)	า กั	7	FACW species FAC species
2		1	FACU species
5			Prevalence Index = B/A ==
7			Hydrophyde Vegalaffon Indicators.
45			2 - Dominence Test is >50%
,		= Total Cover	3 - Prevalence Index is \$3.01
50% of total cover	20% of	20% of total cover"	4 - Morphological Adaptations' (Provide supporting
Herb Stratum (Prof. 1200)	æ	744 FBC2	Ě
Solidaen langorners	5 rdr		'hdicators of hydro soll and wetland hydrology must be present, unless disturbed or problematic.
]		- N- C	Definitions of Four Vegetation Strata.
,			Tree – Woody plants, excluding whes 3 h. (7 é cm) or more in diameter at breast height (DBH), regardless of height
9			Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater then or equal to 3,28 ft (1
30			mo) (m
RPS. of total reserv	1 20	= Total Cover	Herb - All hertaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 it tall
ody Vire Stratum (Plot size		ZON UR KOM KONEK:	Woody vine – All woody vines greater than 3.28 ft to height.
EDM of total country		Total Cover	Present? Yes No
Decide the state of the state o	10 KO	Na cover	

Eastern Mountains and Predmont - Version 2.0

Remarks	n. PL-Poe Living, M-Marit Anticators for Problematic Hydro Soils! 2 cm Macz (A10) (M. RA 147) Coest Problematic Hydro Soils! Coest Problematic Hydro Soils! Coest Problematic Soils (F10) (M. RA 126, 147) Preformer Foodples Soils (F10) (M. RA 126, 147) Preformer Foodples Soils (F12) Coller (Explain in Remarks) Indicators of hydrophytic vegatalian and welland hydrology must be present, unless disturbed or problematic.	
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Depth (Actor (Matth & Color (Matth &	Type C-Concentration D-Depellan, RNA-Reduced Matrix, MS-Mersted Sand Grains Hydric Soil indicators Hydric Soil indicators Hydric Soil indicators Hydroper Surface (St) Block Histor (An) Block Histor (An) Block Histor (An) Block Histor (An) Block Histor (An) Block Histor (An) Block Histor (An) Block Histor (An) Block Hydroper Surface (An) Boulded Burn Surface (F) Brand Layers (An) Brand Bour Dark Surface (An) Brand Bour Dark Surface (An) Brand Bour Dark Surface (An) Brand Bour Dark Surface (An) Brand Bour Dark Surface (F) Brand Brand Bour Dark Surface (F) Brand Brand Bour Dark Surface (F) Brand Brand Bour Dark Surface (F) Brand Bran	

### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

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Ling of Ma RA.    Ling   Lin	Ling of Ma RA	Offerm Philatope, Nemoca, etc.):	stope/depression	Local Refer (concerve, convex, ra	conceve
New Harror Got Colpha de benn, 2 (of general stoyme Avantament of the Avantament of	Not child to the second state of the second state of the second state of the second se	region (LPR or MLRA):		40 640399 Lang:	10 702993 Detum.
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Alco (2014) (2014) (191	Alon (2014) Sold (10 Hydology inputation) detection	dimetally drobate conditions on B	he site typical for this time of year?		2
View TY OF FINDMICS - Attach site map showing sampling point locations, transacts, knypors by hydrogen to the sample of the samp	TY OF FINDMICS - Attach site map showing sampling point locations, transacts, knyports  Yes X				ormal Circumstances," present?
TY OF FINDMGS - Attach after map altowing sampling point locations, transacts, knyoris  Very X No. 1 No. 1 No. 2 N	TY OF FINDMGS - Attach after map altowing sampling point locations, transacts, knypots to the vigorial present of the property				Yes X No
TY OF FINDINGS - Attach site map showing sampling point locations, presently, knoors  It is a sample of the sample	TY OF FINDINGS - Attach site map showing sampling point locations, treasacts, knoors  Ves. X No.		Ì		Topological in the second of the control of the con
View X	View   X   View   X	MMARY OF FINDINGS - Atta	ich alte map showing sempli	ng point locations, transacts,	Important features, etc.
Present?   Yea   X   No.   N	Violating Present()   Violating   Violating Present()   Violatin	trophylic Vegalation Present?	*   *	 1	
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act Name (4.1)         True Apple Parts (18.4)         Express (18.4) <t< td=""><td>### Triangle   1                                  </td><td>any indicators (otherways of one is mean</td><td>- 1</td><td></td><td>Burface Bull Crecia (BB)</td></t<>	### Triangle   1	any indicators (otherways of one is mean	- 1		Burface Bull Crecia (BB)
March 1944   March 1942   March 1940   Mar	March (A)	Surface Water (A1)	True Aquestic P	Marty (814)	Sparsely Vagetaland Concurs
	April   Apri	Mach White Taths (A.2)	- 1	May Order (Cr)	•
Weeken (2)	Weeken (2)	Seturation (A.5)	- 1	sepheres on Ching Roots (C3)	Mone Tries Lines (818)
March   Marc	Property (2.2)	Water Marks (81)	Presence of R.	actional from (CA)	Dy-Season Weter Table (C2)
The flace (Column   Column	Annual (21)  The flact burder of the flact burder (27)  The flact burder of the flact burder (27)  The flact burder (27)  The flact burder (27)  The flact burder (27)  The flact burder (27)  The flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact flact burder (27)  The flact b	Sectivity Deposits (BZ)	Manual France	duction in Third Solls (CS)	Carpingh Barrons (CB)
Notice   Color   Col	man variety or managery (87)  The format (81-1)  Th				Selection Vision of April Begany (LR)
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nvie	marker:	citte Recorded Data (athean gaug	ps, monitoring well, serial photos, pn	evices hapections). If available	
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1 TOM Cover		Cash in Remarks or on a respectes wheet)
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2	2	more in discrete at tennes being (CBH), especifical of height.
2 X X X X X X X X X X X X X X X X X X X	N DI	
E 2		Septemb - Woody plants, excluding woody whee, plantamplanty 20 K (4 m) to secure to harden and have then 3 to 7 K cm) District
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» Total Cores	Z	Shrub - Woody plants, excluding woody whee, aproximately 3 to 20
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n Total Cover		Woody Yines As woody whee greater than 3.28 R in height.
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hydrophyda. Vegeddon Present? Yea X.	(Plot stor.	
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	Remarks, (include photo numbers hare or on a separate airest.)	

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	28.147,148) , 148)	Location Pt. Profit Lineal, Marketin Solice
1	28. (47, (48) , 146)	2 cm Muck (A10) (MLRA 147)
10 KM 11)		Cosst Prairie Redox (A16)
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(LPR N,		Very Bhallow Dark Surface (TF12)
		Other (Explain In Remerks)
l		
	ž	
	122	Indicators of hydrochydic vecetation and
ŀ	LRA 146)	wetland hydrology must be present.
Red Parent Maserial (F21) (MLRA 127, 147)	127, 147)	unions disturbed or problemetic.
Restrictive Layer (if observed):		
1		
Ş		Notice from Processor 7

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### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

Each Communication   Each Co	Landborn placing   10 State   1	investigator(s):	B Sleby	Southern Tourney, Days	
Landborn principle   Long	Landing places, heart 40,   Logs				
Solidary Link Name   Solidary   Communication   Communicatio	Substraction   Control	Landform prisides, langua, etc.)	Rodolain	Local Relea (concern, connex, no	hore
So is late total brance.  So is late total brance.  And demonstraying branch controlled and and special form of year?  And demonstraying conditions on the ake special for the bran of year?  And Vegetalion  Sold of Hydrotogy and the second controlled and Hydrotogy and the second controlled and Hydrotogy and the second controlled and Hydrotogy and the second controlled and the second controlled and the second and the second controlled a	Sol like Unit Norme:  An edimosic/pyticocky: concellacour on the also typical for this line of year?  An Vegatidion	Submerican (1880 or M. DAY		40640196	
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Any dependent on the ability of the control of the	An Vegetation	See Mary Com Nation.	- Depression vol. Literature See Section 20	ĺ	
SUBMINARY OF PINDRIGS - Attach also map althoriday problematics (it revents, explain by animals in humans)  SUBMINARY OF PINDRIGS - Attach also map althoriday sampling point locations, transacts, important features, etc.  Hydrogen for Vegetation Present?  View X	Year   Year	Are climaticity drobyty conditions Are Vapetation , Sc	on the aits typical for this time of year? II and or Hydrology algor	×	PR no, explain in Rements.)
SUMMANY OF PINIDANGS - Attach also map showing earmpling potent locations, transacta, important features, etc.  Hydroporpite Vegetion Present?  Yea X No X No X No X No X No X No X No X N	SUBMINATORY OF PHUDBIGS - Attach ales map aboveling particle for transacts, limportant features, etc.  Hydrographic Voyadison Present?  Ver. X. No. X		, or Hydrology		Yee X No.
### 1	### SEGLEPTON   Yea X No	SUMMARY OF FINDINGS .	Attach site map showing sampling	point locations, transects,	Important feetures, etc.
Year-X	Year-   Year	Hydrophytic Vegetation Present?		┝╾	
### BSday/25P5  ##################################	The Bische/2575  The Adaptic Probability (2017)  Set (A2)  Set (A2)  The Adaptic Probability (CC)  The Adaptic Probability (CC)  The Adaptic Probability (CC)  Set (A2)  The Adaptic Probability (CC)  Set (A2)  Set (A2)  The Adaptic Probability (CC)  Set (A2)  Set (A2)  The Adaptic Probability (CC)  Set (A2	Hydric Soil Present? Welland Hydrology Present?		_	×  *
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The Acade Facing (814)	The Application of the Control of the Control of the Control of The Application of The Control	Western Horizons Indicators			Recordery Indicators (ministra of two receipts
The Aquete Purch (814)	The Aquete Parish (814)	Primary indicators (minimum of one to	required, check all that apply)		Author Sol Crede (86)
Persona Salate Cote (C1)	Helicope Salder Gots (C)	Burlana Water (A1)		th (874)	Spennely Vagatated Concare Burtana (85)
		High Whater Table (A.2)		Odar (C1)	Drainings Potterns (810)
		Balandon (A.)		heres on Living Rocks (C3)	Mous Trim Lime (816)
		Water Marks (81)	Presence of Rec	used from (CA)	Dry-Beacon Weder Tebre (CZ)
		Sediment Deposits (82)	Road from Red	Johan in Third Solls (CR)	Crayfiel Burrows (CI)
New   New	(Res major) (87)  Yes	Abrell Mayor Charles		Principal Princi	Market of Street Block (S.)
(8.9)	(2.9)   (2.9				
Pea		Non Deposite (BS)			A Capamorphia Position (DZ)
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Yea         Ho         X         Depth (Inches);         Wedgand Hydroid           Yea         Ho         X         Depth (Inches);         Wedgand Hydroid           Yea         Mo         X         Depth (Inches);         Yea         X           (exeam gauge, montaining welk series photon, previous inspections) if amplable         X         X         X	Yes No. X Dupth (Inches): Wedand Hydrock Yes No. X Dupth (Inches): Yes X Yes Yes Yes Yes Yes Yes Yes Yes X (Sereon gauge, montanting well, serial photos, previous inspections) If singlisher	Aquette Fearre (813)			FAC-Heading Test (DS)
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<b>-</b>	he Present? Yes No. X Diplis (Indhes):  Tapiding (Fringe)  Freezrickel Date (several paups, monitoring welk seriel photos, previous Imprestions). If swalable-		×	d (Inches):	
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	That As OBL, FACW or FAC: 57 14% (A/B)
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2 Semburus ap. Y NI	Mydrophytic Vegetation indications.
3 Physiciapus opulitatus 5 Y FACW	1 - Rapid Test for Hydrophytic Vegetation
	X 2 - Dominion Test is >50%
	3 - Prevalence Index to \$3.0
	4 - Morphodopicar Adaptatorera (Previoe eucyporang date its Remarks or on a separate an eat)
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20 ×	be present, unless disturbed or problematic.
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Leersie cryzoldes 20 Y	
10 N	more in demokra as breast helpfit (DBH), regardless of helpfit.
	Bepling - Woody plents, excluding woody vines, aproximately 20 it
	(6 m) or more in height and less than 3 in. (7 6 cm) DBM.
	Shrute - Woody plants, excluding woody vines, aproximately 3 to 20 T B (1 to 8 m) in height.
	Morte, M. Inchesone from seconds clearly securifies.
	of etze, and woody plents less than 3.28 it tail.
(2	Woody Vines - Al woody whee greater from 3.28 ft in height.
Woody Vine Statum: (Plot size: 30 )	
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Ramarks (Include photo numbers here or on a separate sheet.)	

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Der Seuten (Art)  Der Seuten (					
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Rad Pared Married (721) (RLEX 127, 427) union degraded or probeminate.	l	ont Floodplain Sc	NB (F19) (MLRA	€ !	wetland hydrology must be present.
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Hydric See Przecory Yes X	Restrictive Layer (if observed)				
(Product) Yes X	Tiple				
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## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

heranneta	SANTE Section. Township, Ranges SPH, 79N, R2W	C) Sope (%)	Suppositive or M. R. M. 124 Let 40, 1040244 Long00.1040201 Contin William	-Bethesda Voly Channey 211- 10011, 25-70 Kilopes www commonsor	Are canalic J hydrologic conditions on the sile hypical for this line of year? Yes X No (if no, explait it Remarks.)	or Hydrology significantly disturbed? Are Homas Circumstences' present? Yes X No	or Hydrologynehrably problematic? (if needed, explain any answers in Remarks.)
Projectishe South Teld Ereny Introduction		Landform (Mistope terrace, etc.)	Subregion (LRR or MLRA) LPR. N 124 Lat.	SOIL Map UNIT Name: Both - Betheson York Ch	Are camalic / hydrologic conditions on the site hypical for	Are Vegeteilon solution or Hydrology significantly disturbed?	Are Vegetation Sol or Hydrobgy networky problematic?

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

Hydrophylic Vegetalion Present? Hydric Soll Present? Welland Hydrology Present?	Yes Ho X Yes You X Yes You X Yes You X Yes You X Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	is the Sampled Area within a Welband? Yes	× 92
Remarks Old Field			
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#### HYDROLOGY

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Eastern Mountains and Piedmont - Version 2 6

Sampling Point, 29

Samoling Point	Terlure Retracts	Accoulton Pt. Pore Linkog, Markenin Indicators for Problematic Hydric Soils*  2 on Marck (A10) (M.R.A 147)  Coossi Parish Readors (A16)  (M.R.A 147, 148)  (M.R.A 136, 147)  Very Shelkey Dark Surface (FF12)  Ver	
	Profile Description: (Descrites to the depth headed to document the indicator or confirm the absence of indicators) Despite State (most) State (most	Typer C-Corcentration, D-Depention, RM-Reduced Neutr, MS-Musked Sand Greins 1,00     Historic Soil McCanars   Historic MS     Historic MS   Historic MS     Historic MS   Historic MS     Historic MS   Historic MS     Hydrogen Salide (LA)	
SOIL	Profile Description (Description to the deposition of the description	'Type' C-Corcentration, D-Doperton, Risk Hydro, Soil in Reculers History (A.)  Hister Epipedon (A2)  Beat Hister (A3)  Straithed Layers (A3)  2 cm Marck (A1) (DR RN M)  Straithed Layers (A3)  Smoty Marck (A1) (BR RN M)  Smoty March (A3)  Smoty Service (A12)  Smoty Rector (S4)  Sardy Calved Marth (S4)  Sardy Calved Marth (S4)  Sardy Calved Marth (S4)  Sardy Calved Marth (S4)  Sardy Calved Marth (S4)  Sardy Calved Marth (S4)  Restrictive Layer (N objectived)  Type - A2/L/L (S/M O)  Depth (poches)	

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmork

Secondary   Exercised   Exer	investigation(s):	The second second	Oardine Tenenghin Day		Dent.
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on the side typical for this liters of year?  Attach side mapp altocology any problematic?  Attach side mapp above/ring sampling point locations, transactis, imports the mapp above/ring sampling point locations, transactis, imports the mapp above/ring sampling point locations, transactis, imports the mapp above/ring sampling point locations, transactis, imports the mapper sides core (c)    Vea	Submedon ILPR or MLPAX	LRRN	₹	0 691169 Delum	WGS4
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Attach also maps aboveling sampling point locations, transacts, imports the samp aboveling sampling point locations, transacts, imports the sample of the sa	Ara Vegetation X	ions on the site hypical for this time of year's Soil, or Hydrology	Yea X ignificantly disturbed?	O (from expension of Remerts.)  Circumstances of present?	
Attach eite map showing sampling point locations, transcta, Imports  Yes No X		, or Hydrology		Yes X Mg	
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1	Hydrophytic Vegetation Prime	rrt?	No X		
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The Anguier Ballis Cole (1)   Specially Vigorated Coros	Privately Indicators (minimum of on	e la requiret, check all that apply)		Burhace Soil Crecke (	<b>2</b>
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Painwist.	Describe Recorded Data (stre	em gauge, monitoring well, earlei photoe, (	orevious trapactions), if available:		
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Concentration, Discharting, Nichtelanian, Nichtelanian, Sand Chairs  In Indianate for Protein Debation, Nichtelanian, Sand Chairs  In Indianate of Proteins State States (ST)  Epipedon (AS)  The Chair States (ST)  The Chair States (ST)  The Chair States (AS)  The Chair States (ST)  The Chair States (AS)  The Chair States (ST)  The Chair States (AS)  The Chair States			
The Concentration Desiration (No. 1) and Surface (ST)  The Concentration Desiration (ST)  The Concentration Desiration (ST)  The Concentration (ST)  T			
The Dark Surface (1 barth, 1894 barth, 1894 barth, 1894 barth, 1894 barth Surface (1 barth, 1894 barth Surface)  The Dark Surface (37)  Dark Surface (38) (M.I.A. 457, 448)  The Dark Surface (38) (M.I.A. 457, 448)  Dark Surface (38) (M.I.A. 457, 448)  The Dark Surface (38) (M.I.A. 457, 448)  Dark Surface (38) (M.I.A. 457, 448)  The Dark Surface (38) (M.I.A. 457, 448)  The Dark Surface (38) (M.I.A. 457, 448)  The Dark Surface (38) (M.I.A. 457, 448)  The Dark Surface (38) (M.I.A. 457, 448)  The Dark Surface (38) (M.I.A. 457, 448)  The Dark Surface (38) (M.I.A. 457, 448)  The Dark Surface (38) (M.I.A. 457, 448)  The Dark Surface (38) (M.I.A. 457, 448)  The Dark Surface (38) (M.I.A. 457, 448)  The Dark Surface (38) (M.I.A. 458, 457)  The Dark Surface (38) (M.I.A. 458, 457)  The Dark Surface (38) (M.I.A. 458, 457)  The Dark Surface (38) (M.I.A. 458, 457)  The Dark Surface (38) (M.I.A. 458)  The Dark Surface (48) (M.I.A. 45			
and (4.1)  Dent Sufficient (2.2)  Elipidation (2.2)  Elipidation (2.2)  Elipidation (2.2)  Elipidation (2.2)  Elipidation (2.2)  Polyvalue Babre Suffice (3.9) (BLUSA 457, 544)  Thin Dent Suffice (3.9)  Helic (4.2)  Thin Dent Suffice (3.9)  Helic (4.2)  Thin Dent Suffice (3.9)  Helic (4.2)  Thin Dent Suffice (4.9)  Deptided Marit (7.2)  Red Dent Suffice (4.1)  Deptided Marit (7.2)  Red Dente Suffice (4.1)  Deptided Marit (7.2)  Red Dente Suffice (4.1)  Deptided Marit (7.2)  Red Dente Suffice (4.1)  Deptided Marit (7.2)  Red Dente (7.1)  Red Dente (7.1)  Red Dente (7.2)  Dente Suffice (4.1)  Red Dente (7.2)  Dente Suffice (4.1)  Red Dente (7.2)  Production of Productive (7.2)  Production of Productive (7.2)  Production of Productive (7.2)  Production of Productive (7.2)  Production of Productive (7.2)  Production of Productive (7.2)  Production of Productive (7.2)  Production of Productive (7.2)  Production of Productive (7.2)  Production of Productive (7.2)  Production of Productive (7.2)  Red Denter Marit (7.2)  Red Denter	Type: C=Concentration, D=Depiation, RM=Reduced Main	rtr, MS=Masked Sand Grains	*Location PL= Pore Lining M=Matrix.
Def Solving (87)	Hydric Soll indicators.		Indicators for Problematic Hydrig Solis
Elipidecin (A2) Polyvate debug safface (A4) (BLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 457, 449) (BLLA 157, 457) (BL	i	nft Sunface (ST)	2 cm Mack (A10) (MLRA 147)
This Cold.	[ [	Ayvalue Below Surface (SB) (MLRA 147, 148)	Cossi Preiris Redox (A15)
And Agent (SA)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (A)  And Agent (B)  And A	[	in Dark Surface (39) (MLRA147, 148)	(MLRA 447, 148)
Absolution (1918)  Absolution (1	-	Anny Grayed Marks (F2)	Predmort Ploodplan Sols (F19)
South States (A11)  Corn (States (A11)  Robert Derivation (F2)  Robert Derivat	1	der Dark Surface (FA)	Very Staffme Dark Surface (TE12)
Der Burkoe (A12)  Public (A12)		oleted Dark Surface (7.7)	Other (Explain in Remarks)
And Market (S.1) (LRR M, hydrophytic vegetation and blocker (S.1) (LRR M, hydrophytic vegetation and blocker (S.1) (LRR M, 122) hydrophytic vegetation and blocker (S.2) (LRR M, 122) hydrophytic vegetation and blocker (S.2) Principle (S.2) Principle (S.2) (MLA 127, 147) weither problematic.  Principle (M. observed)  (A. observed)  Hydric Scal Present? Yea	İ	dox Depressions (FB)	1
Mark 147; 1489 Mark (S4) Under Section (F13) (MLRA 194, 122) **Indication of Productivities washington and Program of Productivities (S5) — Promotine Troughain Sole (F19) (MLRA 147) variant Displaying the Section of Production (S2) (MLRA 127, 147) under displaying the Section of Production of Program Makes (S7) (MLRA 127, 147) under displaying the Section of Program of Pr		n-Manganesa Mesesa (F12) (LRR M.	
(Checke State (S4) (Checke State	ļ	MURA 136)	
To find the second (55)  Production (55)  Production (72) (ALBA 127, 147)  The Production (72) (ALBA 127, 147)  The Character (72) (ALBA 1	I	nbric Surface (F13) (MLRA 134, 122)	Indicators of hydrophytic vegetation and
A forcing (* debeured)  A forcing (* debeured)  A forcing (* debeured)  A forcing (* debeured)  A forcing (* debeured)	]	idmont Floodplain Solls (F19) (MLRA 148)	wetland hydrology must be present.
h (hordway)	I	d Parent Material (F21) (MLRA 127, 147)	unices disturbed or problemedo.
(findhet): Hydria Bod Present? Yes	Restrictive Layer (if observed)		
hipotes; Hydric sed Present? Yes	Type:		
	Dapth (Inches):		**
Terrum tags.		i	
	Remarks:		
	-		

### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

	Section and Cherty Mistrophiscouri Piconies	City/County Yellow Creek Twp , Columbiana Co Sempling Date:	1	April 30, 2015	
Applicanil/Owner	Tetre Tech		State: OH SP-31	=	
investigator(s):	E Kernedy	Section, Township Range:	S24, TDN, RZW		
Landform (Metope terreca, eft.):	gentle abope	Local Raied (compane, comme, none):	); concave Stope (%);	9 Z	
Subveption (LRR or MLRA):	LRRN LAC	40 640252 Long	ND 69109\$ Delum:	WGS84	
Soil Map Unit Name: BMD - Barks	BitD - Berks charmery all loam, 15 to 25 percent alopes		effestion	none	
obgic condit	ite typical for this time of year?	Yee X	No Off no, explain in Remerks.)		
Are Vegetation X Soil Are Vegetation Soil	or Hydroboy	Aprilicanily disturbed? Are Telomai Yes Patential Disturbing Complements?	Are Telemed Gircumstances' present?  Yee X No  If needed contain any enterent in Remarks.)		
	alte mep showing samplin	g point locations, transacts, im	portant feetures, etc.		
Hydrophylic Vegetalian Present?	Yee X	2			
Hydric Soil Present?	×  •	Arte within a	2 ×		
Wedand Hydrology Present?	×	┪	W-20		
Remafile. makazilmed wetland (PEM). Organs name EKsp11	EKapil			, <del>, , ,</del>	
HYDROLOGY					
Wetland Hydrology Indicators.			Secondary indicators (manners of two received)	(basingal)	
Primary Indicators (minimum of one is required; check at that apply)	check of that apply)		Burban Sol Crecie (96)		
Surface Water (A1)	Thus Aquatic Plants (814)	rds (814)	Sparsely Vegetated Corpora	Surfece (B6)	
High Wester Textile (A.2)	-1	Oder (C1)	X Drainage Patients (B10)	-	
X Secretary (A)	A Outline Reportment on Living	Outdood Reportments on Living Room (CJ)	Mone Tites (P16)		
Bedirant Decods (82)	Pacent ion fled	Recent fron Perfection in Thed Solu (28)	Onder Baron (CB)	-	
Onli Deposite (85)	Tith Mack Surface (CT)	(C)	Selvetton Vielbe on Aertel Imag	(C3)	
Age Met or Crust (34)	Other (Explain in Remerks)	(Paranta)	(t/O) shared because of Plants (D/)		
Iton Dapouts (BS)			Geomorphic Position (D2)		
Weder-Statend Lanes (819)			Micotopographic Nata (DA)		
Aquette Fearing (813)			FAC-Heuteral Test (DS)		
Field Observations.					
Surface Water Present? Yes	× S	Depth (Inches):			
	×		Wettand Hydrology Present?	_	
Saturation Present? Yes X	2	Dauth (Inches): 0 Y	Y X		
(Incluídes capillary fritige) Describe Recorded Data (streem gauge, monitoring well, serial photos, previous Inspections). If available	nonticring well, serial photos, pre-	dour inspections) if available.			
			İ		
Remerke:					
				_	
US Amy Corps of Engineers			Eastern Mountain and Pledmont - Version 2 @	iori - Version 2 0	

VEGETATION (Five Strats) - Use acientific names of plants	lific names of plants	Sampling Point: 31
1 100 Straiten (Prot etra: 30° )	Absolute Dominent Indicator % Dover Species? Status	Dominaince Test workwheet, Number of Dominark Species That Are OBL. FACW, or FAC  [A]
		Total Number of Dominant Species Across Al Strate: 3 (B)
	Train Comm	Percent of Domhant Species That he 099L FACH or FAC: 00 67% (A/B)
Suding Stratum. (Ptot Stor. 16')	Ιİ	Index worksheet:  1% Cover of Multi
3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		084 species 0 x 1 = 0 FACN species 0 x 2 = 0 FACN species 0 x 2 = 0 FACN species 0 x 3 = 0
Strub Straints (Pres Sine: 16")	0 = Total Cover	10 x 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
2 8		hydrophysia Vegetadon Indicators. 1 - Rapid Test for Hydrophys Vegetation
2		X. 2 - Dominatos Test is -80%. 3 - Prevalence Index is 50 0 4 - Atentholomial Adentitional (Prevalence Index is secondary).
	0 = Total Cover	data in Remarks or on a separate sheet) Problement Hotrochydd Veoreldforn* (Explain)
Herb Stratem. (Plot elear 5	Ιİ	Indicators of hydric and and welland hydrobogy must
3 Trifotem repens		Definitions of Four Vegetation Strate: Tea - Woody plants, excluding whee, 3 in. (7 8 cm) or
		more in dismission at breast height (284), regardless of height. Sapiling - Woody plants, excluding woody whee, epopsimplesy 20 ft or not note to height and less than 3 in 75 Ann 1864.
		Bhrute - Woody plants, excluding woody wines, aproximately 3 to 20 R (1 to 8 m) in height.
\$ 7 T	iiii	Herb - All Inchesona (von-woody) plante, regardless of size, and woody plants less than 3.28 it had. Woody Vines - Al woody vines greater than 3.28 it in halphi.
Woody Vin Stutiern. (Ptot size 300_)	1000 = 100m Cover	Hydrodriffe Vegetation Present? Yes X No
Remarks (Include photo numbers here or on a separate street.)	0 = Total Cover	
US Army Corpe of Engineers		Essiem Mountains and Piscinorit - Version 2.0

ince of Indicators.) Tenture Remarks		devicem		Providen ST a Done Lining Maldedy	Indicators for Problements Hodge Sales	2 cm Muck (A10) (NE.RA 147)	Coast Prairie Redox (A15)	Predmort Floodplain Soils (F19)	(MLRA 147)	Other (Explain in Remarks)			Indicators of hydrophytic vegetation and	universidationally man on problematic			Hydric Soil Present? Yes X No	
1   E	¦	ì	;	<u>                               </u>		! !	ı	i	İ	ı	l		,e `		-		¥	
th market		* *					, r						•	Ē				
Type"		ه اد					(MLRA 1.					c) (CINCK IN,	134, 122)	LEA 127.				
Redox Features	İ	위 🛭		150			rfece (Sd)	#(F2)	2		. E.		3) (MLRA	(F21) (M				
Triffie Description (Osecribs to the depth needed to document the indicator or confirm the absence of indicators).  **Dopth Hatrix Red Confirmed Note: The Confirmed N	ı	6VRS/6		Toe Calibration Defination Ribertained latter Medicated Sand Cales		Dark Surface (S7)	Polywake Selow Surface (SS) (RELRA 147,144) This Dark Surface (SS) (Ast BAA27, 448)	Lounty Glayed Matrix (F2)	Depleted Matrix (F3)	X Depleted Dark Surface (F7)		MLRA 136)	Umbric Burtace (F13) (IRLRA 134, 122)	Red Parent Material (F21) (MLRA 127, 147)				
를 <mark>*</mark>	į	s  8				•		•	•	•	•	•	•	•				
iption (Describe to ti Matrix Cotor (moist)		2 SYN		onfution On Decision	cators.	1	adon (A2)	Hydrogen Sulfide (A4)	ayers (AS)	Cepteted Below Derk Surface (A11)	Thick Dark Surface (A12)	Sendy Mucky Meneral (31) (LACK R, MERA 147, 144)	Sendy Gayed Marks (S4)	metr (58)	betrictive Layer (# observed).			
rofile Descrit Depth (Inches)		2 2		Control of the contro	hydric Soll Indicators.	Hatoed (A1)	Histo Epipadon (A2)	Hydrogen S	Stratified Layers (AS)	Depteted By	Tack Dark	Sentry Mucky Menes MLRA 147, 148)	Sendy Clayed Man	Stripped Matrix (S6)	Sectificative Lay	) John	Depth (inches):	Sementic

Eastern Mountains and Predmont - Version 2 0 US Army Corps of Engineers

### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

Investigator(s):	2				
	E Nemeroy	Section, Tow	Section, Township, Range:	S18, TBN, R2W	N. RZW
Landform (Naskaps, temacs, etc.);	edocys spueß	Local Relief (concerve, convex, none):	convex, none):	anou	Slope (%): 5
Subregion (LRR or MLRA):		Lat: 40 640518 Long"	g80 658676		WGS84
	o 15 percen			sification	trone
Are climatic/hydrologic conditions	Are almetic/hydrologic conditions on the elle typical for this time of year?	× 84 ×	  ≩ 	(if no, expision in Remarks.)	
Are Vegetation , Boll	ar Hydrology	eignificently disturbed?	Are "Normal Co	tences" present?	
Are Vegetation , Soil	II, or Hydrology	naturally problematic?	Yes X No (F needed, explain any ensures in Remarks.)	No No Norman to Plante (L.)	
SUMMARY OF FINDINGS	SUMMARY OF FINDINGS - Attach elte map showing sampling point locations, transacts, important features, etc.	npling point locations, in	maacta, important i	setures, etc.	
Hydrophylic Vegetation Present?	₹.			;	
Hydric Soil Present? Wetland Hydrology Present?	 	× of	Ave within a Yes	×	
Remarks:		1			
successional forest. Original name EKsp10	BEKAD10				
HYDROLOGY					
Wedand Hydrology Indicators.			986	ondery indicators (m)	Secondary indicators (minimum of two required)
Primary indicators (minimum of one is required, check all that explosive	equired; check all that apply?		ı	Surface Boll Crecks (86)	98)
Surtane Water (A1)	1 1	True Aquello Planto (B14)		Spensity Vegatile	Spensely Vegetated Concern Burlace (86)
High Water Table (A.2)	Hydrogen	Hydrogen Buffde Odor (C1)	1	Drahmage Patterna (810)	(810)
Sestembas (A3)	Feedbard	Oxidized Phicospheres on Living Rooks (C3)	l	(816) serul mit exist	14
Water Marks (81)	Table 1	Presence of Reduced Iron (C4)	1	Dy-Season Water Tathe (C2)	Table (C2)
Sedment Deposits (82)	Recent to	Recent from Reduction in Tilled Soils (CS)	ļ	Crayfish Burrows (CE)	ŝ
Drift Deposite (B.5)	Tigh Much	Thin March Surface (C.7)	l	Seturation Visible	Seturation Visible on Aerial Imagery (CS)
Application of the (B4)		Other (Explain in Persents)	I	Shurled or Shuse of Parks (D1)	(LO) WALE
(SSE) amboden sca			l	Caconomic Posters (U.S.)	20
Water-States All Assess All			l	Manufacture Base (CA)	
Aquable Fearns (813)				PAC-Newford Test (DS)	<b>1</b>
Field Observations.					
Surface Water Present? Yes	<b>₽</b>	Depth (Inches):			
Weter Table Present? Yes	×  2	Depth (Inches):	Wedlend Hyd	Wedens Hydrology Present?	
Saturation Present? Yes	×	Depth (Inches):	 <u>*</u> !	× g	
Describe Recorded Data (stream)	incruces copemy image). Describe Recorded Date (abreen gauge, monitoring well, serial photos, previous hespeciature), if available	a, previous inspections), if ave	initie.		
Remarks					

Plants
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names
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Strata
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Maria arcalina   Print series   Maria arcalina   Print series   Maria arcalina   Print series   Maria arcalina   Print series   Maria arcalina   Print series   Maria arcalina	Murbar of Christon's Species  That Ave CRI, EACHY or FAC, Total Number of Deminant Species Across Al Strate:  Percent of Deminant Species  Prevent of Deminant Species  That Ave CRI, FACHY, or FAC  That Ave CRI, FACHY, or FAC  Obl. species  FAC species
Phd Stare   15   100   Total Coner     Phd Stare   15   100   Total Coner     Phd Stare   15   10   Total Coner     Phd Stare   15   10   Y   FACU     Phd Stare   10   Y   FACU     Phd Star	### ##################################
Phot Stee   15   100   Total Const	23.33% 4. MARION DY
Phd Star.   15   100   104	A. MANAGO DY A. S. S. S. S. S. S. S. S. S. S. S. S. S.
PM Stor   15   100   1	A. MARRY DY. A. MARRY DY. A. A. B. B. B. B. B. B. B. B. B. B. B. B. B.
PM Stor.   15   100   1 Tols Const	46 a worksheet.  4 Cover of 10 x 1 = 0  10 x 2 = 0  50 x 3 = 190  60 x 3 = 190  60 x 4 = 396  10 x 5 = 396  10 x 6 = 35  10 x 8 = 366  10 x 8
Prior State 15   Prior	45 Conse of A 1
(PM State 15 ) 0 * Total Cover 10 V FACU 10 V	\$\text{Cover of } & \text{MARPLY by } & \text{MARPLY by } & \text{10} & \text{x 2} & \text{20} & \text
(PM State 15 )	10 x 2 2 20 20 2 2 2 20 20 2 2 2 2 2 2 2
(PM State 15 ) a Total Cover FACU 10 Y FACU 10	60
(PM State 197 ) 10 Y FACU   10	62   1 4 =   369   15   15   15   15   15   15   15   1
Phd State	is, 157 (A) 563  veralmore index = 19.4 v 3,569607261  Vaposition indication.  Vaposition indication.  Vaposition indication.  Vaposition indication indic
(PM State 15 ) 10 v FACM 10 V FACU 1	3.555867.781 regelation regelation regelation regelation
(PM State 15 ) 10 v FACW 10 V FACU 1	Prevalence Index = BM = 356507761  Hydrosphyte Vegesteien Indicaters.  1 - Regist Test for Hydrosphyte Vegesteien  2 - Dominaroo Test is +50%  3 - Prevalence Index is 51 0 <sup>3</sup> 4 - Hosphosphesi Adeptition ( Procein augoriting date in Florancia co on a separate sheet.)
PM 8km   15	Pervalence Index = BA = 355597751.  Hydrophytic Vogetation Indicators.  1 - Read of Teal for Mystophytic Vogetation  2 - Coninterso Teal is +5074.  2 - Deninterso Teal is +5074.  4 - Mentiological Angelosium (Protein Apporting date in Florinsis or on a separate when
(PM state: 6 ) 22 ° Total Conta	hydrophytic Vegetation Indicators.  1 - Rapid Test for Hydrophytic Vegetation.  2 - Dominance Test is >60%.  3 - Prevence befort is \$1.00 for the appoint of the Hydrophytic Vegetation of
10	Hydrosphylick Vegestation Influences.  - I-Regular Test for Hydrosphylick Vegestation  - I-Regular Test is 190%.  - Provinces India is 510%.  - Annualmos Test is 510%.  - Hospitological Adapt lations (Provide supporting date in Florantia or on a separate sheet).
PN   FACU   PN   PACU   PN   PACU   PN   PN   PN   PN   PN   PN   PN   P	1 - Flagod Test for Hydrophydo Vegetation     2 - Dominarce Test is -90%     3 - Pervalence Index is -90%     4 - Mosthological Adequations (Provide augocrafting date in Remarks or on a separate sheet)
(Prit date: 6 ) 22 " Total Coret  25 Y FAC  5 Y FACU	2 - Dominance Test is 260% 2 - Prevalente black is 50 4 - Morphological Adeptition ( Previous augoring date in Remarks or on a separate sheet)
(PM sker. 6 ) 23 * Total Conter   PAC   25	Prevetence Index is 53.0"     A-Morphological Adeptations" (Provide supporting data in Ramarica or on a separate sheet)
(PN) elex. 6 ) 22 * Total Cores   25 Y FAC	4 - Morphological Adeptations' (Provide supporting data in Remarks of on a separate sheet)
(PVd ebcs; 6 ) 23 • Total Cover FAC	
Protester 6 1 100 Cores  23 7 FACU  6 7 CACU	The state of the s
23 Y FAC	Problement Pydroprytic Vegeddon (Expelin)
8 7 800 100 100 100 100 100 100 100 100 100	
)	Indicators of hydric soil and wetterd hydrology must be ownern; unless disturbed or excisionatic.
	Definitions of Fear Vacatation Stratus
	Tree - Woody obside, excluding whee, 3 h. (7.8 cm) or
	more in diameter at breest height (DBH), regardless of height.
	Septing - Woody plants, excluding woody vinse, aproximately 20 it
	(8 m) or more in height and less than 3 in. (7.8 cm) DBH.
	Struth - Woody plants, archiding woody vines, aproximately 3 to 20
	R (1 to 6 m) in neight.
	Harb. All harbaceous (non-woody) plants, regardees of size, and woods stants have than 3.78 find.
i	Woody Vires - Al woody vines greater than 3.20 it in height.
	Vegetation
	Prosent? Yes No X
0 = Total Cover	
marks. (Enclude phote numbers here or on a separate sheet.)	

The second second		

Ventury to the application of the control of the	Teachre    Permit   Permit   Permit
1709"   100"   1	Penatra  Penn  Ger/hom  Ger/hom
1.12A 147; 548]	chayfoam  **Location: PLa Pera Lining sir-betanix, badacters for Problematic Paying Solis**; Cose Prairie Recor (A19)    Plantani Fay 149;   Plant
11.00 v. 427, 548) 47, 548) 48, 122)	deyloom  **Location: Pt.e Pore Lining Serbsens: Indicators for Producered Fujois Soils**; Cose Prairie Rock (LNS)  Great Ast7, 143)  Producer Producials Soils (Fig)  Producer Producials Soils (Fig)  Producer Producials Soils (Fig)
11.00 to 14.7; 14.0) 17. 14.0) 19.00 to 1.00	Acceptor. P.e. Pow Living Sarbsenin. Indicators for Producents: Pythe Soils. Coast Prain's Rock (1914 47) Coast Prain's Rock (1914 47) Coast Prain's Rock (1914 47) Producer Producisis Soils (19) Producer Producisis Soils (19)
11.00 to 14.7 (44.9) 17. 14.9) 19.00 to 14.9 (4.12.9)	*Location: P.e. Pow Lining Sarbsenin. Indicators for Producement Physics Soils*; Coast Prain's Rock (AND) Coast Prain's Rock (AND) Great Prain's Rock (AND) Photomy Frockiels Soils (F19) Photomy Frockiels Soils (F19)
1.12A 147; 548] 47; 5489 41; 7489 44, 1229	*Location: Plue Powe Limp sin-Marin: Indicators for Problemetic Typics Socie*.  Coast Prain's Record (A19)  Gullan 447, 449)  Pedronet Proception Socie (F19)  Pedronet Proception Socie (F19)  Pedronet Proception Socie (F19)
11.00 to 12.00 to 10.	*Location: PL= Pore Lining Merkearis, Indicators for Prodements Hydre Boile*; 2 on March (10) (INLA 147) Coses Prairie Rock (1419) Placture Froducials Solie (1419) Placture Froducials Solie (1919)
11.00. 447, 449 47, 1449 10.00. 14, 1229	**Location: Pie Pere Lining Methests. Indicates the Productive Hydre Soils**. Coast Prain's Race (ILIAN 447) Coast Prain's Race (ILIAN 447) Prain'
77, 448) 77, 448) 128 H,	*Location: Ple Pere Linny Mehitarin. *Location: Ple Pere Linny Mehitarin. *Location: Problemetic Hydric Soles. *Z on Music (A10) (ILIMA 417) *Cosed Prein's Redox (A16) *Plefactor Produkts Sole (F19) *Plefactor Produkts Sole (F19) *Plefactor Produkts Sole (F19)
11.18.A. 147; 54.8) 47, 1489 11.18.E. K.	Ligonom, Front Lings Amelians, Middenom for Problemedic Hydric Sciels*; Zon Much (A10) (MILAN 47)  Cosel Prairie Redox (A10) Professor Frodeland Sciel (F19) Professor Frodeland Sciel (F19) Professor Frodeland Sciel (F19)
Dark Surface (ST)	2 cm Mode (A10) (INLIAN 47);  Cosel Preir's Redox (A10) (PLEA A17, 144);  Predoxed Foodple Soils (F19)  (PLEA A18, 447)
	Coast Prairie Redox (A16) (ALINA 147, 148) Predmont Floodplain Soils (F19) (ALINA 134, 147)
(44)	(MLRA +47, 144) Predmont Floodplain Soile (F19) (MLRA 134, 147)
Depleted district (F.3)  Copieted district (F.3)  Depleted district (F.3)  Rector Depressions (F.3)	(MLRA 194, 147)
Redox Dark Surtone (FS) Deplemed Dark Surtone (FS) Redox Depressions (FS) Front-Mengmense Messess (FS) (LRR M, MLTAA 139) Under Gerbaco (FS) (MLRA 134, 122)	
Depoised Dark Surface (F7)  Macker Deposabour (F8)  Front-Mangerees Masser (F12) (LMR M, MILAK 199)  MILAK 199)  United Surface (F13) (MLM 184, 122)	Very Shallow Dark Surface (TF12)
Redox Daywellor (§ §)  Int. Architecture Measure (§ §) (LRR M, INLAN 155)  INLAN 155)  Unbelo Serbon (§ §) (MLM 154, 122)	Other (Explain in Remarks)
Inter-Mangerase Masses (F12) (LMR N, mILMA 136) Unbric Surface (F13) (MLRA 122)	
HILLOGA 196)  123)  Linding Surface (2015) (AMLPA 134, 122)	
	Andreases of harbonished consistent and
Samoy reason (55)	westend hydrology must be present.
Stripped Mattix (S6) Red Parent Material (F21) (MLRA 127, 147)	uniese disturbed or problematic
Andread III also see a see a see a see a see a see a see a see a see a see a see a see a see a see a see a see	
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### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

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BAE - Berts channery sit lown, 25 to 40 percent slopes	NWI cleasification. nx
*	X No (6f no, explain in Remerts, )
Manager at 1	Yes X No
Are Vegetaéon , Soll , or Hydrology naturally problematic?	(If needed, explain any answers in Permants.)
BUMMARY OF FINDINGS - Attach sits map showing sampling point locations, transects, important features, etc.	, transects, important features, etc.
Hydrophylic Vegetation Present? No.	
문 X X	And within the Xee X No
Wettend Hydrology Present? No Yee X No W	Wedand? W-21
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pern wedand, Original name EKap?	
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Wedand Hydrology Indicators.	Secondary Indicators (minimum of two required)
The America Columnia of the statement comes as the statement of the America (Statement Statement	
ļ	X Overage Patents (B10)
8 Animation (A3) X Cooking Phone (C3)	
(82)	
Abelian o One (84) One (84)	Seturation Velicle on Aerial Imagery (CS)
	Geomorphic Position (D.2)
hundahan Visible on Aerid Imageny (87)	1 1
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Field Observations,	
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Seturation Present? Yes No X Depth (Inches)	- X X X
Describe Recorded Desa (streem gauge, monitoring well, serial phobos, previous trapections), if available	to a deposit of the second of
Remerks.	
US Amy Corps of Engineers	Eastern Mountain and Pedmont - Version 2.0

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Dominance Test worksheet: Number of Dominant Species That Are OBL, FACSY or FAC (A)	Total Number of Dominant Special Across M Strets: 3 (B) Percent of Dominant Special That Are OBL, FACM, or FAC, 33 SSM, (MB)	x 2 = 10 x 2 = 10 x 3 = 60 x 3 = 60 x 3 = 60 x 3 = 60 x 3 = 60 x 3 = 60 x 4 = 60 x 5 = 0 x 189 x 6 = 0 x 7 = 10 x 8 = 0 x 8	Hydroxycid Vegetalion in holosobra:  1 - Rapid Test for hydroxycia Vegetalion  2 - Dominano Test is -50%   X 3 - Promiseros belas is 51 0   4 - Horphotopia Aspellator (Provide seporting data in Reminate are on a experime ahead)  — problematic hydroxycia Vegetalion (Expen)	be present where distributed oppositioning.  Definitions of Four Vegetablem Bitteria.  Thes - Woody plants, according where, 3 hr. (7 8 cm) or more in connected at these applied (1964), for 3 cm, groomstelly 20 kg.  (8 nn) or more in height and less than 3 hr. (7 8 cm) DBH.  (8 nn) or more in height and less than 3 hr. (7 8 cm) DBH.  Here - All height and less than 3 hr. (7 8 cm) DBH.  Here - All height connected from-encody plants, regardless of sats, and woody plants have than 3.28 k bit.  Whouly Where - All stoody vives greater than 3.28 k histight.	Hydrophylds Vegetation Present? Yes X No	
Absolute Dominant Indicator % Cover Species? Status 6 Y FACU		5 "Total Cover"	15 Total Cover	10 N FACU 10 N FACU 10 N FACU 6 N N 70 N TAXU	0 *TOM Cover	Arabia sheet,)
Ires Siminn (Pot size: 30 )	4 6 6 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Sactor Stream. (Pot Steer 15	2 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 Protein applies Junea dulas Junea dulas Junea sons Authorisefform applies Symphotothory applies Symphotothory 11	Woods Vina Strikter, (Pick state, 30	Remarks, (occlude photo numbers here or on a separate aheat.)

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Control of the Contro		Redox Femilian	,		
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on RM=Reduc	Type: O-Concentration, D-Depisition RM-Reduced Natrix, MS-Awared Sand Grains	d Send Grati	, j		*Location PL= Pora Living MeMastr.
					Indicators for Problematic Hydric Soils
	Dark Surface (87)			!	2 cm Muck (A10) (MLRA 167)
•	Thin Dark Surface (S9) (MLRA147, 144)	(S9) (MLRV	(147, 148)	ř	ONUNA 142, 1481
•	Lourny Glayed Matrix (F2)	arts (F-2)			Pledmont Floodplein Solls (F19)
•	Depleted Metrix (F3) Revive Derk Surface (F6)	() ()			(MLRA 136, 147)
Depleted Below Dark Surface (A11)	X Depleted Derk Surface (FT)	riscos (FT)			Other (Explain in Remerks)
•	Redox Depressions (F8)	# (F8)			
Sendy Mucky Meneral (S1) (Life N.	http://wargenees Masses (F12) (LRR M.	<b>(F12)</b>	LAR M.		
	Umpric Surface (F13) (Nd,RA 136, 122)	13) (MLRA	36, 122)		*Indicators of Incircatoriic wooduling and
	Pledmont Poodplein Solle (F19) (MLRA 148)	afn Soda (F16	(MURA 148)	_	welland hydrology must be present,
•	Red Perent Metental (F21) (MLRA 127, 147)	Lad (F.2.1) (ML	RA 127, 147)		unless disturbed or problematic.
				r	
					Hydric Boll Present? Yes X No

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# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

Investigatorie):	2				
	E Namedy	Section	Section, Township, Ranger.	Yellow Creek Township	
Lendform (hillstope, temsos, etc.):	adopt	Local Reflet (so	Local Rader (concerns, convex, nove):	Pone	Stope (%): 10
S. Anna School Co. Let DAY	300		-		I
	E VICE	40 038087			
Sol May Unit Name Bit	BkE - Berks channery alt loem 25 to 40 percent stopes	Dercent stopes		NWI deselfication.	none
Are climatic hydrotogic conditions Are Vecetation	Are climatic hydrotogic conditions on the site hydroti for this time of year? Are Venetition Soil Soil of Hydrotogy a	ionilicanth disturb	×	No (final explain in Remarks.) Am "Normal Clean expenses" consent?	î.
	or Hydrobogy	naturally problematic?		Yes X No (Fineshed, explain any answers in Flaments.)	. Ia
BUMMARY OF FINDINGS.	BUMMARY OF FINDINGS - Attach also map showing sampling point locations, transects, important features, etc.	pling point locations	s, transacts, Impo	ortant features, etc.	
Hydrophykic Vegelation Present?	*	×	in the Samoled		:
Hydric Soil Present?	<b> </b> ≱ ;	× :	Arms within a Yes	*  £	ا,
Remarks:	<u> </u>	- - -			
atrub. Original name EKapt.					
HYDROLOGY					
Wedend Hydrology Indicators				Secondery Indicators	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required, chack of that apply)	required, check of that apply			Surface Sol Create (98)	Versite (946)
Surface Water (A1)		Thus Aquade Plants (614)		Sperment Vega	Sparsely Vegetated Concare Buriace (86)
High Window Table (A2)	Mydrogen	Mydrogen Builde Odor (C1)	į	Dramage Patterns (B10)	(B10)
		Oxidized Phispapheres on Unity Rooks (C3)	ĵ	How Tim Unit (819)	
Sedment Deposits (9.2)		Parent Inn Badocton is Timed Solts (CS)	•	Charles Roman (Ch.)	Conflict Reserve (73)
Dell Deposite (8.9)	The March	Thir Mach Surface (C7)		Setudion Va	Seturation Viable on Aeriel transpory (CS)
Age Made or Creat (B4)		Other (Explain in Remerts)		All Sharped or San	Sturted or Streeped Plants (D1)
Iron Deposits (845)		•		Geomorphia Position (D.2)	toetten (D.2)
Inscription Visite on Aerial Imagery (B7)	Dery (B.1)			(Europe Aquiters (EUS)	(6CD) P.4
Water-Statusd Learns (89)				deutodospy	Minch spographic Plates (D4)
Aquette Fearns (813)				FAC-Heutral Total (DS)	\$0) III.
Flets Of constitutions			-		
Surface Water Present	÷	Careth Contact V			
	  -   	Decid (bottom)	_ <u>i</u>	Mattered Maderalogy Present?	
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(includes capitary fings) Describs Recorded Data (stream	euge, monitoring well,	pravious inspections), if	┪		
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VEGETATION (Five Strats) - Use acleritific names of plants.	ffic names of plants.	Sempling Point 34
Ton Statum (Plot stor 30) 1 Prunce seroths	Absolus Dominant Indicator % Cover Species? Status 8 Y FACU	Domhurze Test worksheet. Number of Domhurs Species That Are OSB, FACH or FAC: 0 (A)
2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		Total Number of Dominant Species Across AB Strain: 4 (B)
Sucher Strature (Pat Bare (5))	5 = Total Cover	Percent of Demirant Species That Are OBL, FACH or FAC Providence India sectablished.
4 10 20		0 x 3 = 0 7 x 4 = 26 0 x 6 = 0
Shub Stratum (Phot Street 15 )	0 = Total Corer 75 Y ND	April 1
2 5 3		Hydrophylis Vegetalion Indicators.  1 - Rapid Ties for hydrophylic Vegetation  2 - Cembranos Teal is -50%.
9.80		Prevalence Index is 50 0     4 - Morphological Adeptetions (Provide supporting data. In Fernance or on a separate press)
¥	- Total Cover	Problematic Hydrophylic Vegatation <sup>1</sup> (Esplain)
1 Poe ap 2 Symphyddeblum ap 3 Achtkee mellebrum	15 Y NO	<sup>3</sup> indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic hydrological and its properties along
	2	The Woody plants, excluding whee, 3 hr. (7 6 cm) or more in dismesse at treest height (DBH) regardless of height.
50 A. 40		Bapiking - Woody planta, excluding vecody vines, aproximately 20 ft. (8 m) or more in height and less than 3 in. (7 6 cm) DBH.
10		R (1 to 6 m) in headri. Herth - All hardecouse (non-vicody) plante, ingercless of size, and vicody plants has lives 2.28 ft.st. of size, and vicody plants has lives 2.28 ft.st.
21	47 = Total Cover	Woody Vines - All woody whee greater than \$28 it in height.
Woody Ying Stratum; (Prot else: 30")		
	0 = Total Cover	Fylocophylic Vogeration Present? Yes Ko X
Remarks (include photo numbers here or on a separate sheet.)	entia treet.}	

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Depth Leading Live Chief to the	Promis Description (Describe to the depth heading to decument the majoritor of confirm the assence of indicatoring.  Depth Matrix  Matrix	fragolection at accessors.
Color (moist)	% Color (moint) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remerks
0-5 10YR4/3	100	lbem
5-9 10778478	100	cliylcam
yper C=Concentration, D=Depletion, RM	Typer C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Mesived Send Green	*Location: Pt.= Pore Lining, SteMastix
tydric Boll Indicators.		Indicators for Problematic Hydric Soils
Historic (A1)	Denk Sunface (97)	2 cm Much (A10) (MLRA 147)
Histor Epipedon (AZ)	Polyvalue Below Surface (SB) (MLRA 147,146) This finit Surface (SD) (MR Band7 148)	Obsert Prairie Redox (A15)
Hydrogen Sulfide (A4)	Loamy Glayed Mattix (FZ)	Pledmont Floodplein Solls (F19)
Stratted Layers (AS)	Depleted Metric (F3)	[MURA 138, 147)
2 cm Muck (A10) (LRR N	Redox Dark Surface (F6)	Very Shallow Dark Burlace (TF12)
Departed Below Derk Suntacti (A11)	Deplement Deart Surface (F7)	Other (Explain in Remerks)
Search Marky Mineral (5.1) (198 M.	PORODI LADORENSE (FS)	
INLEA 147, 148)	MLRA 136)	
Sandy Chayed Matrix (S4)	Umbric Burlace (F13) (MLRA 134, 122)	*Indicators of hydrophysic vegelation and
Sundy Redox (SS) Stringed Metrix (SS)	Piedmoni Floodpien Solis (F19) (MLRA 148) Rad Perent Material (F21) (MLRA 122, 147)	welland hydrology must be present, soften distributed or problematic
Restrictive Layer (if observed)		
198	1	
Depth (Inches):	1	Hydrin Boll Present? Yes No X
Remarks.		

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

The March of the following the	F. Karmondy   E. Karmondy   Section, Tomosthy P. Ranger     I. KR. N				
Fire M. P.A.	Fig. 20   Local Related Concerns, correct, cores,	estigator(s):	E Kernedy	Section, Township Ren	DEC S16, T9N, R2W
See   Mark PAb     See     See     See     See     See     See	anner: BRC Bart channers yal bean of but Spercent stopes NM BRAN Page Section of the Section of	ofform (nileiope, lemnos, etc.):	adoja	Local Relief (concave, comma, n	conceve
Annual Conditions on the site bytesis for this firm of year?	Annual Controller on the site typical for this time of year?	region (LRR or MLRA):			Deturn
Trickopic conditions on the able typical for this time of year?	Trickopic conditions on the able bypical for this time of year?  Sol	•	channery sill loem, 6 to 15 percent	apobea	
- Soil — or Hydrology — significantly distributed? Are Thomas City to the Soil — or Hydrology — significantly distributed? Weeker The Soil — or Hydrology — network problemsel? (I weeker proper profession Present) — or Hydrology — network point locations, transacts, importance of the Soil of Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of the Soil of Soil of the Soil of the Soil of Soil of the Soil of Soil of the Soil of Soil of the Soil of So	. Sol of thydrology significantly disturbed? Are thored Cro.  Yes Sol of thydrology induced problematic? (If researd entering point locations, importance of the second control of	dimeticity drologic conditions on the s	te typical for this time of year?	Yes X	(ff no, explain in Romanta.)
The second order of the second order of the second order of the second order	Negation 1, Soil of the country proteins of the country proteins of the country o				omal Circumstances' present?
HARTY OF FIND NIGS - Attach site map showing sampling point locations, transactis, important features, etc.  Year X No.	Water OF FIND BIOLS - Attach alte map alrowing sampling point locations, transacta, important features, etc.  The Sample of Marie Control of M				od, explain any anames in Remarks.)
Sol Present   Yea   X   No	Total Propertion Present Total	MARY OF FINDINGS - Affects	nellomes edwods own still	noint locations framewith	Important features at:
# 1	# 1	archele Vanadation Present?	X = X	mount mounts, is seen as,	Miles (2011) (42) (42)
Present   Parameter   Parame	Thresent   Tea	c Soil Present?		<u> </u>	×
State   Stat	Spiral carry Eldack.	and Hydrotogy Present?		1 1	W 22
### Bit   Committee   Committe	gived rearre Elicação.  19 feoidescence.  10 feoidescence.  10 feo	rke.			
Second continue and   Second continue   Second	99 feedicestorm.  14-10.  14-1	rettand. Original name EKsp6.			
90' feedl'extoren.  ***********************************	99 feeds centern.  40 feeds cent				
, see a see	a s s s s s s s s s s s s s s s s s s s	ROLDGY			
Workland Hydrology Present?		nd Hydrology Indicators.			Secondary Indicators (minimum, of two
	Weeken Hydroto	Indicators (minimum of one is required; o			Surface Sol Create (96)
*	× × × × × × × × × × × × × × × × × × ×	Auritana Water (A1)	True Aquetic Plen	b (814)	Spensely Vagatated Contains Buris
Week and Hydrotic	Weetend Hydroto	Agn Woder Total (A.2)	-	Oder (C1)	1
Weekend Pycholo	Wedge of Action 1 Action 1 Action 1 Action 2 Act	Anjumbon (A3) Kater Marite (B1)	1	nement on Living Roots (C3)	Month Trien (Johns (2016)
Weekend Hydrolo	Section 1 Section 2 Section 2 Section 2 Section 3 Sectio	Sediment Deposits (B2)	Pacent Iron Redu	don in Tiled Sols (CS)	Crayflat Burrows (CB)
Weekend Hydroto	Weakend Hydroto	Mil Deposits (BS)	Thin March Surface	(2)	Seduration Valida on April Imagery
Week not Pytholo	Weekend Hydrodo	April Med or Oracl (B4)	Other (Explain in )	(emerks)	Burned or Bressed Plants (D1)
Weekling A Market A M	Weekend Hydrodo	ron Deposits (86) Fundation Volitie on Aeriel Imeger (87)			Geomorphic Position (D2)
Weedland Hydrolo	Weetherd Hydrolo	Value-Statuted Leaves (DIS)			1 1
	<u> </u>	squatte Fauna (B13)			FAC-Neufert Test (DS)
1.		Observations.			
<u>-                                    </u>	<del></del>		×	h (Inches):	
*  	×		×	h (Inches):	Wethend Hydrology Present?
be Racorded Data (de sem gauge, monitoring well, series photos, previous heppections) if annulable. As.	be Rescrided Cata (de earn gauge, montectrig well, eartel photoe, previous trapections) if avelebbe.	_ ** (ebu	F -		×
ita,		be Recorded Deta (streem gauge, n	ondoring well, sents photos, previ	ous impactions) if available.	
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Donvinne 7 tel worksheet Number of Dominen Species That An OBL, FACH or FAC 2 (A)	Total Number of Comment Species Acres A Smite:  Percent of Comment Species That Are USB, FACH or FAC	Prevalence Index worksheet	Hydrophysic Vegetadion britications.  1. Raisof Stell for Hydrophysic Vegetadion  X. 2. Dominance Test is 200%  3. Legiphospical Adequation of Provide asporting data in Remarks or on a expension in New Jones in Remarks or on a expension in New Jones in Remarks or on a expension (Explain)  Problematic Hydrophysic Vegetadion' (Explain)  * Indicators of hydric and and wellend hydrobysy must	To present, clears distributed of problematic.  Definitions of Feat Feptishon Senta.  Tree - Woody plants, excluding when, 3 in, (7.8 cm) or more in demines at leves any (10.94), presentables of height.  Registra, - Woody plants, excluding woody when, approximately 20 it (9 in) or more in height and less them 3 in, (7.8 cm) DSH.  Brinds, - Woody plants, excluding woody when, approximately 3 to 20 it (9 in in height.  Herd - All hethcaccus (non-ecody) plants, inguithes of size, and woody plants less them 3.28 it all Woody Wees - All woody when greater than 3.28 is his height.	Hydrophylle Vegetation Present? Yes X No	
Absolute Dominant indicator TimeStratum (Pict class: 30") % Cover Species* Statum	6. 6. 1 Total Coret		(Plot labo	Commonwealth		Terrenta (Indude pindo numbera hera or on a separate alvat.)

Sampling Point:

10.00   10.0	Commence of the control of the contr	1			D. dan Banks	!		
C M deprioring deprivation deprioring deprivation deprioring deprivation deprioring deprivation deprioring deprivation deprivatio	(Inches)	Cotor (motet)		1	*	Type	Loc.	Texture
Constitution of proteins of pr	2	10YR4/2	æ		•	ا	2	ckyhoem
And seed of problems of the solid of the sol	3.12	2 576/2	8	10YRS/B	\$	ا	æ	chaydoans
A consider Fit. From Lintry, Me-Medit Held cates for Problematic hydric Solisis.  2 Zon News (Alto) (Bullet 417)  Coast Presis Bodon (Alto)  Grant 417, 148)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 147)  (Bullet 124, 148)  (Bullet			İ		į			
A coston Fig. Pros Living, Mc-Medit Medicates for Problemation by date Soisis.  2. Zon Much (Alt) (Bulled 447)  47, 148)  6. Cosel Press Reday (Alt)  79, 148)  70, 148)  70, 148)  70, 148)  70, 148)  70, 148)  70, 148)  70, 148)  70, 148)  70, 148)  70, 148, 147)  70, 148, 147)  70, 148, 148, 148, 148, 148, 148, 148, 148			İ		ן וֹ	֓֟֝֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		
A consider Fit. From Living, Me-Medit in the decisions for Problematic hydric Solisis.  2 To history (Alt) (Bulled, 447)  2 To history (Alt) (Bulled, 447)  Code Preside Rodor (Alt)  (Code Preside Rodor (Alt)  (Bulled, 144)  (Bulled			j					
A coation: Fig. Prox Living, Mechanix Indicators for Problematio Hydris Solisi  2 con News (Alto) (BLLM 447)  47, 144)  (BLLM 147, 144)  (BLLM 147, 144)  (BLLM 147, 144)  (BLLM 147, 144)  (BLLM 147, 144)  (BLLM 147, 147)  (BLLM			İ		j	Í		
Accelor Ft. Pros Litting, Newherk indicators for Problematic Hydris Soils.  2 con Newh, (All) (BLUA 457)  47, 148)  Gode Paris Redoc (All)  (BLIA 147, 148)  (BLIA 147, 148)  (BLIA 147, 148)  (BLIA 147, 148)  (BLIA 147, 148)  (BLIA 147, 148)  (BLIA 147, 148)  (BLIA 147, 148)  (BLIA			Ì		į			
A coation Fig. Prox Living Mechanist  Intal 147,148)  47,148)  47,148  47,148  47,148  47,148  47,148  47,148  47,148  47,148  47,148  48,122  49,918/40 District Sold Fig.  48,122  49,918/40 District Sold Present?  44,127,147  44,127  44,			j		İ			
Hollocations for Tyritory by Marke Solisis  2 on Muck (A10) (BLUAK 447)  2 on Muck (A10) (BLUAK 447)  47, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154, 149)  (BLUAK 154)  (BLUA			į		9			2
Dark Surface (ST)	Hyperte Boll indice	Monte:	Name Proposition	THE WHITE HE SHAME THE	0			Indicators for Problemedia Hydric Solis
Epipedon (42)	Hetoed (A1)	i		Dark Surface (S7	_			2 cm Mach (A10) (MURA 147)
The Dark Series (N)	Hetic Epiped	on (A2)	•	Polyvalus Below	Surface (S6)	(MLRA 147,14	=	Coset Prairie Redox (A16)
Lower Object Mark (F1)	Black Histor	£3		Thin Dark Surfec	(SB) (MLR	A147, 148)		(MLRA 147, 148)
Seed Lyaper (14)  Seed Lyaper (14)  Morein (14)	Hydrogen Su	Ede (A4)	•	Loemy Gleyed M	eletix (F-2)			Predmont Floodplain Softs (F19)
And the burn Surface (A)  The Surface (A	Stratsed Ley	ers (A.S)	Ī	Daylesed Heartz	£ 1			(MLRA 134, 147)
The Service (A.12)  The Se	S GM MUCK	KIU) (LIKK PQ		Madox Dent Sura	(0)			Very Charles of Barnets
AN AST, Stag MENON (ST) (LARR N, MENON MENON (ST) (LARR N, MENON MENON (ST)) (LARR N, MENON MENON (ST)) (LARR N, MENON MENON (ST)) (MENON MENON (ST)) (MENON MENON (ST)) (MENON MENO		DW LABRE SURBOR (ATT)		A CAPAGE LIBRAL A	(1.1)			Other (Experts in regardant)
MACA 130) INTERFECT (46) The Control of Property (12) (PLEA 136, 122) Interfect (13) (PLEA 136, 122) Interfect (13) (PLEA 136, 122) Interfect (13) Interfect	Sends Mark	Creek (A12)	•	FIRST LANGE	Manager (F1)	7.4 SR M		
9 Glayed Metrit (84) Unitrite Surface (F.13) (MLRA 194, 122) "Buddestion of hydrophysic wagesiden and by Present (85) Petron (	M. BA 147	. 14m		R 84 130	Ì			
Witchen (SG) Place (SG) Product Poolphin Sch (Fig) (MLRA 187, 147) weekend hydrickogy most be present, and Make (SG) Rad Pave Makerial (F21) (MLRA 187, 147) where Schurbad or problemate.  Rad Pave (R observed)  N (Arches): Hydric Ecol Present? Yee X	Sandy Glaye	J Metric (84)		Umbric Surface (	F13) (MLRA	136, 122)		*Indicators of Inythophytic vegetation and
Pard Perent Makerite (39) where defaulted (721) (MLDA 127, 147) where defaulted or problematic.  The Layer (if observed) hydric Boal Present? Yee X hydric Boal Present? Yee X	Sandy Redo	S.		Piedmont Floods	an Sole (F)	19) (MLRA 144)	_	wetland hydrology must be present,
h (finalmen)  Nyderic Bod Freeward? Yea X	Stripped Mai	rk (36)		Red Perent Mate	dal (F21) (M	URA 127, 147)		uniess deturbed or problematic.
In United It because of the property of the Interest of the In			1					
hydric Ecol Present? Yes X	Restrictive Layer	(M'observed)						
h (Inches): Hydric Bell Process? Yes X	ž,							
Remerks.	Depth (Inche	ĕ						×
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# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

TOTAL SECTION TO THE EXECUTION SECTION TO SECTION TO THE SECTION TO SECTION T	irvestigator(s):			
Londinum pations, among with the pations among words   Long   L		E Kørnedy	Section, Township Range	
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Solution   Ris or M LAX;   Contract   Cont	Lancacarril grandpe, manage, manage	action	l	and the same of th
Sol May Utel Name: Bit E. Sends Characay gill from 25 to 40 percent at page 4 for may be forwards and characteristics of present of the sends of majority debuggers of the sends of the sen	Subregion (LRR or MLRA):		40 639441	
An ethniciphydriologic conditions on the side typical for this time of year?  An Vegetation Soil Soil On the side typical for this time of year?  An Vegetation William Soil On the side typical for this time of year?  An Vegetation William Soil On the side map althoughing sampling point locations, transactis, Important familinas, etc.  Hydrophic Vegetation Present?  Welliam MARY OF FINIORGS - Attach alls map althoughing sampling point locations, transactis, Important familinas, etc.  Hydrophic Vegetation Present?  Welliam Hydrology Present?  Welliam Hydrolo		ME - Bertal Charmery sall toem, 25 to 40 pt	roent stopes	
An Vegetation Soid or hydrotogy adminish deburband? Are Wormed Chrometerser present?  And Vegetation Boid or hydrotogy adminish problematic? (I meable or other than the state of th	And offered Contrations	on the olds boined by this time of	* **	Of constants in Remarks.)
Ves X No Vegetation	Ana Vegetation	Boll , or Hydrobgy	grifficantly disturbed?	mel Circumstances" present?
SUBMINARY OF PINDRGS - Attach also map aboveling sampling point focations, transacts, important features, etc.  Hydrophytic Vegetion Present?  Yes X ho		ar Hydrology		fee X No
Yea   X   Yea   Yea   Yea   Yea   X   Yea   X   Yea   Yea   Xea   Yea   Xea   Xea   Yea   Xea	SUMMARY OF FINDINGS	! - Attach elte mep showing sampl	ing point locations, transacts, it	mportant features, etc.
OTE.         Free	Hydrophytic Vegetation Present		    }	
Yea	Hydric Soll Present?	×	-   &	*
97 indications.  14-10	Wetland Hydrobogy Present?	X PRA	No.	W-23
97 indications.  14.10	Remerker		i	:
99 indication.  14-(4-1)  14-(4-1)  15-(4-1)	purpos wed			
O on is required, clack at the apply)	HYDROLOGY			
Corn is magained, check at the gopty	Wetland Hydrology Indicator			Secondary Indicators (minimum of
The Aquatic Petrol (E14)   Signatural Vogelated Control	Primary Indicators (minimum of one	his required; check at their apply)		Burtace 8cd Cracte (B6)
Previous Saldis Cutr (C1)   X   Outbert (Previous Saldis Cutr (C1)   X   Outbert (Previous or Induction to That Bode (C3)   The North Purious of Pathoda to That Bode (C3)   The North Purious (C7	Surface Winter (A1)		Plants (B14)	
X	High Wester Table (A.2)	Hydrogen Su	Made Octor (C1)	- 1
Presence of Machinari Inn (Ct)   Present (Ct)   P	X Subcration (A.3)	- 1	methers on Living Roots (C3)	Mose Trim Lines (B15)
	Water Martin (81)	Presence of	Reduced Iron (C4)	Dry-Deseron Wotter Table (CZ)
	Bedmant Deposits (B2)	Paraert bont	Spakedian in Thed Both (CB)	Casyfibit Burrows (CB)
1	Carl Deposite (R.3)			
(609)	Age mai of crue (ps)			The second secon
1959	Francisco Valida en Aeriel la	(C)		Section Applied (D3)
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Yee No X No X Daysh (Inches):  19.		×		
Yes X No No No No No No No No No No No No No		×		Wetland Hydrology Present?
(Induces appeary rings) Describe Recorded Date (at sem gauge monitoring walk sentil photos, previous inspections) if available;	:	₽ ×	•	ا*
	(Included captillary trings) Describe Recorded Deta (stres	am gauge monitoring wal, serial photos, I	previous Inspections) if available:	
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				data in Remerks or on a separate sheet)
i	g	- Total Cover		Problematic Hydrophytic Vegetation" (Explain)
March Stratutis (Prot eigns 67 )	į	],	-	
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Lydelpie alternitore	ļ.,	٦	FACE	Definitions of Four Vegetation Birata.
Fraguita viginione	2	z	FACU	Tree - Woody plents, audicing whee, 3 in. (7.6 cm) or
	֓֞֜֜֜֞֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֡֡֓֓֓֡֜֜֡֡			mone in demoiser at breast height (DBH), regardless of height.
	į	ĺ		Sapting - Woody plants, excluding woody wnee, aproximately 20 ft
	j	j		(6 m) or more in height and likes than 3 in (7.6 cm) DBH.
	İ	ĺ		Shrub - Woody plants, excluding woody whee, aproximately 3 to 20 R (1 to 8 m) in traine.
	İ	j		
	ļ	ĺ		of size, and woody plants has then 3.28 it sall.
	j	١		Woody Vines - M woody vines greater than 3.28 ft in height.
	25	Total Cover		
Woody Vine Stratum: (Pint store: 30")				
	Ì	ĺ	-	
	į	ا		Hydrophytle
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	]_	Total Cover		
Remarks. (include photo numbers here or on a separate sheet.)				

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(factors) Cofor (motes)				
		Redox Featur		
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4-12 10YRSH	8	10YR6/8 20 C	*	clayfoan
*Typer C=Concentration, D=Dept	Metion, RM=Redu	Typer C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Mesked Sand Grains		Location PL= Pore Lining M=Matrix,
Hydrie Soil Indicators:				Indicators for Problematic Hydric Bolls
Hatoad (A1)		Dark Styless (S7)		2 cm Muck (A10) (MLRA 147)
Black Hodec (A.3)		Thin Dark Surface (59) (MLRA147, 148)	(44)	(PELSA 147 148)
Hydrogen Sunde (At)		Loany Glayed Martic (F2)		Pledmont Floodplain Solle (F19)
Stratified Layers (A5)		Depleted Marrix (F3)		(MLPA 136, 147)
2 om Muck (A10) (LRR M		Redox Dark Surface (F6)		Very Shebow Derk Burtace (TF12)
Thirk Dark Surface (A12)	r.	Refre Commence (F)		
Sendy Mucky Meneral (S1) (LRR II,	LRR M,	Jron-Manganese Masses (F12) (LRR M.	ž	
MLPA 147, 146)	,	MLPA 136)		
Sandy Glayed Matrix (SA)		Umbric Burtece (F13) (MLRA 139, 122)	8	Indicators of hydrophytic vegetation and
Stringer (Matrix (SS)		Red Pleast Meterial (F21) (MLRA 149)	2,160	wedend hydrology must be present, unless disturbed or problematic
()			,	
Restrictive Layer (if observed):	ا ا			
1,70 E				
Depth (Inches)		•		Hydric Boll Present? Yes X No
				-
Remarks:				1

Appendix D:
Ohio Rapid Assessment Method for
Wetlands v. 5.0 Rating Forms

### **Background Information**

Milliation. EnviroScience Inc.  Address. S070 Stow Road, Stow, Ohio 44224  Phore Number 330-688-0111  Phore Number 330-688-0111  Phore Number 330-688-0111  Veguation Community(se) PEM/PFO  HOM Classics) Depression  Location of Wetland: Wu-1  Veguation Community(se) PEM/PFO  HOM Classics) Depression  Location of Wetland: Mu-1  Veguation Community(se) PEM/PFO  HOM Classics) Depression  Location of Wetland: Mu-1  Veguatio
PEM/PFO Ssion  wetlands and water resources map  40 649235, -8  40 64925, -8
W-11  W-1  PEM/PFO ssion  wetlands and water resources map  40 849235.8
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(A)		
Wetland Stas (acres, hectures) 0 587 acres onsite		
Sketch Include north arrow, relationship with other surface waters, regelation zones, etc. Please refer to site wettands and water resources map.	Mes, etc.	
Comments, Nurrative Discussion, Justification of Category Changes		
Final score: 47.5	Category: 2	

### Scoring Boundary Worksheet

INSTRUCTIONS The initial step in completing the ORAM is to identify the "scering boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated entitle marth located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or solated from other surface waters often form lists coingious areas or heterogeneous complicases of wetland and upland. In separating wetlands for accorning purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries are coingious or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interactions should be scored as a surface water and in determining a wetland's is scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fence, and edifficult to eaablish the scoring boundary for the wetland being streams, lakes, or tvers, and estimine or coastal wetlands. These situations are discussed below, however, it is recommensed that Rater contact Otho EPA, Dyvision of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clanification of the appropriate sooring boundaries of a particular wetland.

	Stape in property establishing scoring boundaries	done?	not applicable
Step 1	Identify the welland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Stap 2	Identity the iocalions where there a physical evidence that inducingly changes rapidly Such evidence holiudes both matural and humanisticus distributing, constrictions caused by forms or these points where the water worker worker pacifys in induction fields, goins where agentical inflows occur at the confluence of hiers, goints where agenticant inflows occur at the confluence of hiers, of other factors that may restrict hydrologic infaraction between the wellands or parts of a lingle welland.	×	
Step 3	Delineate the boundary of the vestiand to be maked such that all areas of interest that are configured to and within the areas where the hydrology does not change algorithm this. I.e. areas that have a the hydrology does not change algorithm the first have a high degree of hydrologic hierarchon are included within the scoring boundary.	×	
Step 4	Determine if artificial boundaries, such as property lines, slate kines, noeds, milloud enhabruhments, etc., are present. These should not be used to setablish acontrig boundaries unless they coincide with areas where the hydrologic regime changes.	×	
Step 5	In all Instances, the Rater may enlarge the informune accing boundaries discussed here to accer together weltends that could be accined separately		×
Step 6	Consult ORAM Manual Section 5.0 for how to establish econing boundaries for wellstands that form a parthwork on the landscape, devided by entitical boundaries, configuous to streams, lakes or fiveral or for dust classifications		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

#### Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit of the literature and by submitting a Data Services Request to the Ohio Department of Natural Acras and Preserves. Natural Heritage Data Services, 1889 Fountain Square Court, Building F.-1, Columbus, Ohio 43224, [44-265-4651 (phone), 614-265-3096 (fax), http://www.dur.site.ch.us/ding. The renamining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note. "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species of as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

*	Guestion	Circle one	
-	Critical Habitat. Is the welland in a township, section, or subsection of a United States Geologies Survey of Armine Couloming that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangement plant or armine species? Moving and Calmany 1, 2001, of the federally like armine species which can be found in Ohio, the Indiana Bast has the official makinet designated (50 CFR 17 SEq.)) and pricing and the priving power has had critical instituted segretation (55 FR 41812 July 6, 2000).	YES Westand should be evaluated for possible Category 3 status Go to Question 2	Go to Guestion 2
7	Threatwhed or Endangeved Species. is the wetland known to contain an individual of, or documented occurrences of federal or state-lated threatened or endangered plant or enimal species?	YES Weltand is a Category 3 weltand Go to Question 3	Go to Question 3
m	Documented High Quality Wattend. Is the welland on record in Natural Heritage Database as a high quality wellend?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
+	Significant Breeding or Concentration Ava Does the wetand contain documented regionally significant breeding or nonbreading waterfowl, nedropical songburt, or shorebird concentration areas?	YES Weltand is in Category 3 weltand Go to Question 5	Go to Question 5
40	Category 1 Wellands: is the velland less than 0 Shedrares (1 acre) in alse and hydrologically isolated and either 1) comprised of hydrologically isolated and either 1) comprised of hydrologically percent stream eighty per cent area cover) by Phalents entretivences, Lyfvrom selicents, or Phragmites euctralis, or 2) an adolitional pond greated or excavated on mained tends that has little or no veginistor?	VES Welfand is a Category 1 welfand Go to Question 8	Go to Question 6
•	Bogs is the wettend a past-accumulating wettend that 1) has no significant with the northway 2 appoint an adoption moses, perfolarity (2) has addopting moses have 200% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species from Table 1 is ~25%?	YES Wetland is in Category 3 wetland Go to Question 7	NO Go to Question 7
7	Fens. Is the weltand a carbon accumulating (peat, muck) weltand that it submated during most of the year, primarily by a discharge of free flowing, miveral trial, ground welter with a circummediate ph (5-6-0) and with one or more plant apecies itsed in Table 1 and the cover of invasive species issied in Table 1 and the cover of invasive species.	YES Welland is a Category 3 welland Go to Question 8a	Go to Question its
ž.	** "Od Gewind Forest" is the welland a Forestow welland and is the forest of variety characterized by, but not limited to, the following characteristics overstoy carcopy tress of great age (acceding at least 50% of a projected maximum statushale age for a species). The past of the maximum statushale age for a species, the past 50% of a projected maximum statushale age for a species, the past 50% of 100 years, and algorithm and multilayers campoines, aggregations of campy trees inferspersed with carcopy gare, and algorithms in uniform of standing deed sings and downed logs?	YES Wetland is a Celegory 3 wetland Go to Questlon 8b	Go in Question &

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			(
gg g	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest cancov consisting of	YES	<b>₽</b>
	deciduous trees with large clarineers at breast height (chin), generally clameters greater than 45cm (17 7m) dbh?	Wetland should be evaluated for possible Category 3 status	Go to Question Se
		Go to Question 9a	(
ä	Lake Erie coastal and tributary wedands is the westand located at an elevation less than 1575 feet on the USCS map, adjects to this elevation, or shows a tributary to take Erie that is accessible to fish?	YES Go to Question 96	Go lo Question 10
æ	Does the welland's hydrology result from measures designed to prevent entering and the less of anualin plants. In the welland is	YES	NO
	perially industryinally restricted from Lake Erie due to takeward or landward dikee or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Question 9c
		Go to Question 10	
2	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrological influence.	YES	ON
	bodde allestions, or the welfard can be characterized as an "estuaries" welfard with lake and river influenced riychology. These fictives sanctioned objective welfards expensively welfards estuaries welfarsh, river mouth welfards, or those controlled by submersed exquality westerities, or those controlled by submersed exquative wedesits in	Go to Question 9d	Go to Question 10
2	Does the welland have a predominance of native species within its	YES	ON
	regerand Constitutions, including the results of desired for the same and s	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
3	Does the welland have a predominance of non-native or disturbance interest rative plant species within its woodston communities?	YES	ON
		Wetterd should be evaluated for possible Category 3 status	Go to Question 10
		Go to Question 10	(
₽	Lake Plain Sand Pratines (Dak Openings) is the welland located in Lucae, Folian, Henry, or Wood Counties and can the welland be characterized by the following description the welland has a sandy aubstrate with releaspersed organic matter, a weter table often within	YES Wetland is a Category 3 wetland	Go to Question 11
	everal riche of the Burstan, and other with a confirmable of the granificous vegetation listed in Table 1 (twoody species may also be present). The Ohio Department of Natural Resources Division of Natural Reas and Presentes can provide assistance in confirming the type of webtend and its quelity.	Go to Question 11	(
ŀ	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies	YES	<b></b>
	were formerly located in the Darby Plains (Medison and Union Counties). Sanduaky Digine (Medicol Counties).	Wetland should be	Complete
	Countries, northwest Chic (e.g. Eric, Huror, Lucas, Wood Counties), and northwest Chic (e.g. Eric, Huror, Lucas, Wood Counties), and northwest of unestant Chic Counties (e.g. Chicke Manner Ma	Celegory 3 status	Rating
	Montgomeny, Van Wort etc.).	Complete Quantitative Rating	

#### Table 1 Characteristic plant species.

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invasiva/exotic app	fen species	bog species	Oak Opening species	wet prairie species
Еугінгын зайсағы	Zygadenus elegens var glaucus	Calla palustru	Carex cryptolepus	Calamagrastis canadensis
Myrsophythem spicatum	Cocaine plantagmen	Carex atlantica var capillaces	Cares lasiocarpa	Calamographic stricts
Nayes minor	Carez flava	Carex echinate	Carex stracts	Caver atherodes
Phalans arenanacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumil
Phragmates anatralla	Carex stracts	Carea insperma	Calamagnostis soricta	Carex pellita
Potamogeton crispus	Deschamping camplings	Chamaedapine caipculate	Calamognostis canadensis	Cores servine III
Ranumentus ficana	Eleocharu ronellan	Decodon verticilians	Overcus palustris	Gentiana andrewail
Rhammus frangula	Eriopherum viralicarinatum	Eriophorum vurginaum		Helianthus prossereration
Typha angustyolia	Сенфанория пр.	Laru laricina		Lietria spicale
Typha agianest	Lobelia talmii	Исторандые тистопация		Lysimachia quadriflora
	Parmassia glauce	Schechzeria palustris		Lythrien alatum
	Potentilla fruticosa	Sphagmum spp.		Руспан/денит мурги/алып
	Rhammus alnifolia	<b>Уассиния мастосатров</b>		<b>Stipham terebunhungceum</b>
	Rhymchosport capillacea	<b>Рассілінт согутьюю</b>		Sorghantrum mutang
	Sair cardida	<b>Уассилин алусосра</b>		Sparting pectingle
	Solit myracoides	Woodwardia virginuca		Solidago raddellu
	Solix serissma	Xyrts difformis		
	Solidage ontoensis	ļ.		
	Toffeldia glutinosa			
	Priglochus maratamam			
	Trigiochin palustre	:		

End of Narrative Rating. Begin Quantifative Rating on next page.

5.0 Fleid Form Quenclistine Restric	
Rater(s): B. Slaby	4/29/2015
2   2   Metric 1. Wetland Area (size).	
* * * * *	(1) plan (1) d (4)
Note of more apparent (12)   Check et delablaciose doserved   Check et delablaciose doserved   Check et delablaciose doserved   Check et delablaciose doserved   Check et delablaciose doserved   Check et delablaciose doserved   Check et delablaciose doserved   Check et delablaciose doserved   Check et delablaciose doserved   Check et deserved	
' <u>'</u>	
A flace or none appeared (s)   Chros. all distributions observed   A flace or none appeared (s)   Chros. all distributions observed   A flace or none or no recovery (s)   X described   X flace and or no recovery (s)   X described   X flace and or no recovery (s)   X described or none	

21	Lendtedve F	action facilities		
SILB:		1	Kateria): B Staby	4/29/2015
41.5				
0 41.5	Metric	Metric 5. Special Wetlands.	ij	
max 10 pts. sucholal		Check all that apply and exxra as indicated.		
		Bog (10)		
		Old strongth farmed (10)		
		Mature forested wedand (5)		
		Lake Erie coestaMributery wedend -urrestricted hydrology (10)	-urrestricted hydrology (10)	
		Lake Eris countai/irfoutery wettend-restricted hydrology (5)	metricled hydrology (5)	
		Lake Plain Sand Prairies (Oak Operings) (10)	nfrgs) (10)	
		Relict Wet Prairies (10)		
		Yorown occurrence state/laderal thr	Wrown occurrence state/federal threatened or endangered epicies (10)	
		Significant migratory songtwishwater four hebites or usage (10)	r fowl habitat or usage (10)	
R 47.E	Metric	6. Plant communiti	Metric 6. Plant communities, interspersion microfonography	z da especial
1	Ba. Wetter	Sa. Wettend Vegetation Communities.	Vegetation Community Cover	Vegatation Community Cover Scale
		Score as present using 0 to 3 scale	0	Absent of comprises <0.1ha (0.2471 acres) conliguous area
	~	Aquetic bed Emergent	-	I resent and either comprises small pert of wetland's vegebbors and as of moderate quality, or comprises a elgrificant pert but is of low quality
		gues		Present and either comprises significant part of wedland's vegetation
	•	Formet	2	end is of modernile quality, or comprises a small part and is of high quality.
		Muchata	-	Present and comprises significant part, or more, of welland's woodston and to of hish counts.
		Open Water	•	
	1	Other	4 1 1	1
	Score only one	cone.	Retribut Description of Vegetation Quality	mon Quenty
		Hgh (5)	å	Low app oversity and/of predominance of normative or destructance tolerant native apacies.
		Moderately high (4)	рош	Native app are dominant component of the vegetation, attrough
		Moderate (3)		continue and or designation of the state of the continue of th
	×	Moderately low (2)		presence of rare, threstened, or endangered app
		(1) Mod (1)	Mgh	A predominance of native appeares, with normalive sup and/or distributes became reference and should be size allowed and both
	Sc. Covers	None (0) 6c. Coverage of investive plants, Returns		app diversity and offer, but not sharps, the presence of rare, the state of contract and the contract and the contract and the contract and the contract and the contract and the contract and the contract and the contract and the contract and the contract of the contract and the
	Teble 1 OR	Fable 1 ORAM long form for list. Add or	Mudflet and Open Water Clean	an Quality
	dectrical post	declact points for coverage.	0	Absent <0 that (0.247 acres)
		Extensive >75% cover (-5)	-	Low 0.1 to <1ha (0.247 to 2.47 acres)
		Moderate 25-75% cover (-3)	64	Modernius f to <4ha (2.47 to 9 86 acres)
	×	Sparse 5-25% cover (-1)	6	High 4ha (9 88 acres) or more
		Nearly absent <5% cover (0)	Microtopography Cover Scale	
		Absent (1)	0	Abent
	6d. Microkopography. Score at present usin	pography. resent using 0 to 3 scale	-	Present in very small amounts or if more common of marginal quality
		Vegetated humanucka/huseucka Costse woody debris >15cm (Bir)	8	Present in moderate amounts, but not of highest quality or in amail amounts of highest quality.
	-	Standing dead > 25cm (10th) (bh		
	-	Amphiblen breeding pools		Present in moderate or greater amounts and of highest quality
47.5 GRANE	TOT (	GRAND TOTAL (max 100 pts)		
Refer to the most recent ORAL	ecore cellbra	ation report for the accuting breekpoints best	Mer to the most recent ORAM access collection report for the accerting breakpoints between catagories at the following address: http://apa.catae.ch.i.actae/doi/A011.html	App. office of solders 401.401.html

### **ORAM Summary Worksheet**

		circle answer or	
		insert	Result
Namative Rating	Question 1 Critical Habitat	YES (NO)	If yes, Category 3
	Question 2 Threatened or Endangered Species	YES (NO	If yes, Calegory 3
	Question 3 High Quairty Natural Wetland	YES (NO	If yes, Category 3
	Question 4 Significant bird habitat	YES (NO	lf yes, Category 3
	Question 5 Category 1 Wellands	YES (NO	If yes, Category 1.
	Question 6 Bogs	YES (NO	If yes, Category 3
	Question 7 Fens	YES (NO	If yes, Category 3
	Question 8e Old Growth Forest	YES (NO	If yes, Category 3
	Question 8b Mature Forested Welland	YES (NO	If yes, evaluate for Category 3, may also be 1 or 2
	Question 9b Lake Erie Wellands - Restricted	YES MO	If yes, evaluate for Category 3, may also be 1 or 2
	Question 9d Lake Erie Wellands – Unrestricted with native plants	VES (NO)	If yes, Category 3
	Question 9e Lake Erle Wetlands - Unrestricted with Invasive plants	YES (NO)	If yes, evaluate for Category 3, may also be
	Question 10. Oak Openings	YES (NO	If yes, Category 3
	Question 11 Relict Wel Prames	YES (NO	If yes, evaluate for Category 3, may also be 1 or 2
Quantitative Rating	Metric 1 Size	2	
	Metric 2 Buffers and surrounding land use	8	
	Metnc 3 Hydrology	21	
		105	
	Metric 5 Special Welland Communities	0	
	Metric 6 Plant communities, interspersion, microtopography	9	
	TOTAL SCORE	47.5	Category based on score breakpoints 2

Complete Wetland Categorization Worksheet.

# Wetland Categorization Worksheet

Choices	Circle one		Evaluation of Categorization Result of ORAM
Did was answer "Yes" to any	YES	(N)	is grantitative rating access face than the Calogory 2 account
of the following questions	) !		Properties of the property of the property of the
Succession for the second succession to	Wolland	)	substitute (excentral grey cure)? Il yes, recyanda une
Nametha Bating Mas 2 3	and the second		Disk graff of the World in Control and the Control of the Control
4, 6, 7, 84, 9d, 10	Calegory 3 wetland		assessments to determine if the welfand has been over-
Out uni socume "Vac" to ony	75.0		Explicate the surficed when the 45 country to 50.00
of the following questions.	?	)	Rule 3745-1-54(C) and 2) the cuentitative ratios some If
	Welland should be		the wetland is determined to be a Category 3 wadand using
Namative Rating Nos. 1, 85,	evaluated for		either of these, it should be categorized as a Category 3
90, 9e, 11	possible Category		wettand. Detailed biological and/or functional assessments.
	3 Stehns		may also be used to determine the wetland's category
Did you answer "Yes" to	, ES	<u>?</u> )	is quantitative rating score greater than the Category 2
Norted Dation A.	Walland to	)	econing presented (experiency lary play zone)? If yes,
	Calegorizad ex p		reconstitutes and Cataloguey of the Western Lasting the Harrange of catalogues and Applications and Applications and the control and the contr
	Category 1 welland		functional assessments to determine if the weltand has
			been under-categorized by the ORAM
Does the quantitative score	YES	9	If the soons of the westland is located within the scoring
fall within the acoring range		)	range for a perticular category, the wettend should be
of a Category 1, 2, or 3	Wedand is		assigned to that category in all instances however, the
wettend?	assigned to the		namative criteria described in OAC Rule 3745-1-54(C) can
	appropriette		be used to clarify or change a categorization besed on a
	category based on		quantitative score
	Me scoring range		
Does the quantitative score	<u>)</u>	2	Rater has the option of assigning the wetland to the higher
Catagories 1 or 2 or Catagories	Welland		or the two categories of to assign a category based on the
2 or 3 mellipsyle?	monitored to the		resums of a noviagod wedard assessment metroo, e.g.
A CE O MONTH NAME OF THE PARTY	Minhor of the hon		TUTICATON BESSERTING TO DOCUMENT BESSERVENT OF THE STATE
	munder of the two		CONSIGNATION OF THE PREPARE CHICANS IN CARC NOW 5/40-1-
	Companies of		
	Collectory hereaf on		
	detailed		
	assessments and		
	the nemative		
Does the welfand officension	Criteria		A conflored may be and an extension of the first factors of
exhibit moderate OR superior	2	)	A weather they be under the section and the memory by
Professionale OR habitest OR	Welford was	Wellow	holis contra pilles may be decreded by human authorise
necreational functions AND	undercelecorized	analoned to	but the waterd may attli white superior hydrologic
the welland was not	by this method. A	Cafaconyas	functions because of its has landscape modified size local
categorized as a Category 2	written justification	determined	or regional significance etc. In this circumstance, the
wedend (in the case of	for recateoorization	by the	narrative criteria in OAC Rule 3745-1-54(CH2) and (3) are
moderate functions) or a	should be provided	ORAM	controlling, and the under-categorization should be
Category 3 wetland (in the	on Background		corrected. A written justification with supporting reasons or
case of superior functions) by	Information Form		information for this determination should be provided.
This method?			
		_	

	Dry 2 Category 3	
1000	Catego	
nai Ca	Ų	ľ
FIR	Category 1	
	Choose one	

# End of Ohio Rapid Assessment Method for Wetlands.

#### \$

### Background Information

Name. Emma Kennedy	
Date 04/29/2015	
Affilation. EnviroScience Inc	
Address. 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
e-mail address. EKennedy@EnviroScienceinc com	
Name of Wetland: W-2, W-3, W-4, W-5	
Vegetation Communities) PEM	
HGM Class(se) Depression	
Location of Wedand, include map, address, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
	·
LaisLong or UTM Coordinate 40 648653, -80 726999, 40.648749, -80 72703; -80 726964	3, -80 72703; 5, -80 726964
kuad Nøme	West Point
County	Columbiana
Томпя'нр	Madison
Section and Subsection	
: Unit Code	#05030101
	04/29/2015
National Welland Inventory Map	×
Oho Wetland Inventory Map	
Soil Survey	×
Delineation reportmep	×

Risad W Werner to Tefer to D18 acre D012 acre D013 acre D012 acre D013 acre D013 acre D038 acre	Name of Weitland. W2; W3, W4; W-5 Weitland Size (ecres, hectares). Total 0.0.060 acres on site Sketch include north arrow, institutionality with other surface waters, wagestison zones, etc.	Please refer to site wetlands and water resources map. W-2 0.018 acres onsite W-3 0.002 acres onsite W-4 0.001 acres onsite W-5 0.038 acres onsite		Comments, Narrative Discussion, Justification of Category Changes	
---	---	--	--	---	--

### Scoring Boundary Worksheet

PINSTRUCTRONS. The mutal step m completing the CNAM is to identify the "scering boundaries" of the weitand being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the sooring boundary of an solidate detail marsh blocade in the middle of a farm field will lately be the same as that welland is jurisdictional boundaries. To determine the weiland boundaries in other instances, however, the scoring boundary will not be as easily determined. Wellands that are small or soliated from other surface waters often form lately expenses of welland is the main criterion that should be used Boundaries of form later of the relation of the seal boundaries. The sparating wellands for accorning purposes, the hydrologic regime of the welland is the main criterion that should be used Boundaries to ever a surface waters often or ordinated in determining a welland is stoomy boundaries, the gradients interaction should be scored as a rariel welland. In determining a welland is stoomy boundaries, use the guidelines in the ORAAM Mannal Section 5 0 in certain mistances, it may be difficult to establish the scoring boundary for the welland boundaries and the ORAAM wannal Section 5 0 in certain mistances, it may be difficult to establish the scoring boundary for the welland but a striking boundaries use problem subations include wellands that form a patchwork on the landscape, wetlands divided by artificial boundaries and estimatine or coastal wellands. These stitutions are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wellands Section if there are additional questions or a need for further clanfication of the appropriate sooring boundaries of a particular welland.

	Steps in properly establishing acoring boundaries	done?	not applicable
Step 1	Identify the wettand area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the locators where there is physical evidence that hydrology changes rapidly Such evidence hydrology school evidence hydrology because the such surface to the points where the water would y tangen rapidly at support or the significant follows occur at the confluence of rivers, others where significant follows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wellands or parts of a single welland.	×	
Step 3	Delineate the boundary of the welland to be raied such that all areas of interest last are configurate, to end within the areas where the hydrology does not change algorithmantly, i.e., areas that have a high degree of hydrologic hieraction are included within the sooring boundary.	×	
≯ deng	Determine it afficial boxedires, each as properly lives, state lines, reads, relicod embalments, etc., are present. These should not be used to establish acoring boundaries unless they coincide with areas where the hydrologis regime changes.	×	
Step 5	In all totacross, the Pater may enlarge the minimum scoring boundaries discussed here to score logather wetlands that could be scored separately	×	
Step 6	Consult ORAM Manual Section 5.0 for how to setablish ecolog boundaired or wetenothe that form a petichwork on the landecape, dwided by settlicial boundaires, configuous to streams, lakes or rivers, or for dual cleasifications		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

#### Narrative Rating

INSTRUCTIONS Answer each of the following questions (Questions I, Z, 3 and 4 should be answered based on information obtained from the site visit of the literature and by submitting a Data Services Request to the Ohio Department of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building FL; Lohumbus, Ohio 43224, 614-265-453 (phone), 614-265-43096 (fix.), http://www.dur.gate.oh us/datap. The renamining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these welland types. Note "Critical habitat" is legally defined in the Endangeried Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database

*	Queetkon	Circle one	
-	Critical Habitat. Is the weitend in a township, section, or subsection of a buffed State Geocycles Survey of Starring Custoring that has been designated by the U.S. Fish and Wildlie Sorvice as "critical habitat" for any threatened or endangered plant or animal species? Note as of Laruary 1, 2000, of the federally listed endangered or breatened species which can be found in Ohio, the Indiana Bat has had critical stabilities designed (SOCFT 17 SEs) in on the pring piover has had critical habitat processed (SF RR 41912 July 6, 2000).	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	Go to Question 2
7	Threatened or Endergered Species is the welfard known to contain an individual of, or documented occurrences of lederal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland Go to Owestlon 3	Co to Question 3
-	Documented High Quality Wetland. Is the welland on record in Natural Hantage Delabases as a high quality wetland?	YES Welland is a Category 3 welland Go to Question 4	Co to Question 4
•	Significant Breeding or Concantration Area. Does the westand contain documented regionally significant breeding or northaneding westerlow, rectropical songoint, or shorebird concentration areas?	YES Wetland is a Category wetland wetland Go to Queetion 5	(NO) Go to Question 5
<b>w</b>	Catagory 1 Wedande It the welland less than 0 5 hedanse (1 acre) in the set of hydrologically lesiched and either 1) comprised of vegeblon that is dominated (greate than eight) per cent area cover) by Phaéris suradineosa. Lyfrum selcent, or Phragmites sustraits, or 2) an action pond created or excavated on mined lands that has little or no vegetion?	gory	NO) Go to Question 6
•	Boga. Is the wetland a peat-accumulating wetland that 1) has no algorithm into a conflower, 2) appoint additionses, particularly Schegura spp. 3) the accident increase have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	gory	NO Go to Question 7
<b>+</b> 4	Fers. Is the weltered a carbon accumulating (peat, muck) weltend that it is saturated during most of the year, printrially by a decaying of the flowing mineral stat, ground water with a circumsurated by 16.9 (b) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 and the cover of invasive species listed in Table 1.	YES Wetland is a Category 3 wetland Go to Question 8a	Co to Question (%
4	"Old Growth Forest." It has welland in forested welland and is the frosts chemical and is the forest chemical and is the projection manners in the forest chemical and projection manners in statements on a forest specification and the statement of the manners and manners and the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of statement of a statement o	YES Wettend is a Category 3 westand. Go to Question 8b	Go to Question &

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			(
g	Mature forested wetlands, let be wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of	YES	€
	decictuous trees with large diameters at breast height (cbh), generally diameters greater than 45cm (17 7m) dbh?	Welfand should be evaluated for possible Category 3 status	Go to Question 9a
		Go to Question 9a	(
3	Lake Erie coastal and tributary wetlands. Is the welland located at an elevation less than 1575 field on the USCS map, adjacent to this an elevation less than 1575 field on the USCS map, adjacent to this control of the USCS map.	YES Goth Overflow Ob	NO Go fro Grandin do
4	Pose the useffeed's hadrofees seen a from magazines declared to	SO TO CORRIGO BD	NO CORRECTION
2	Coos are weller as injury least, interesting to the partial process of against plants, is the welderd is partially hydrologically restricted from Lake Erie due to lakewerd or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Question 9c
ļ		So to Cuestion 10	6
2	Are used the water level to he welland it primary hydroxycola influence, i.e. the welland is hydroxycolarly unrestricted (no lakewerd or upland border alterations), or the welland can be characterized as an "estuante welland with lake and river influenced hydroxycy. These include sandbar deposition wellands, estuante wellands, river mouth wellands, river mouth wellands, river mouth wellands, or those dominated by submersed equatic vegoalion.	YES Go to Question 9d	Go to Question 10
2	Dose the welfand have a predominance of native species within its	YES	ON
	Vegetation communities, amougn non-native of disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question Se
		Go to Question 10	
2	Does the welland have a predominance of non-native or disturbance between rative plant species within its vegetation communities?	YES Welland should be evaluated for possible Category 3 status	NO Go to Question 10
		Go to Question 10	(
10	Lake Plain Sand Pratifes (Oak Openings) is the welland located in Lucas, Foliath, Henry, or Wood Countries and can the welland be characterized by the following describion: the resilient has a sandy substrate with hiterspensed organic matter, a water table often within	YES Wettand is a Cetagory 3 wetland.	Go to Question 11
	aversa misse of the surveys. But offers the assertance of the grammerous vegetation listed in Table 1 (throofy species may ske to be present). The Ohio Department of Malural Resources Division of Malural Aces and Presence can provide sessitiance in confirming this tree of welfand and is querily.	Go to Question 11	(
=	Relict Wet Prairies. Is the welland a relict wet prairie community fromhological to some or all of the species in Table 1. Extension prairies	YES	(A)
	were formerly located in the Darby Plains (Nadison and Union	Wetland should be	Complete
	Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties),	eveluated for possible Celegory 3 status	Quentitative Rating
	and portions of western Ohio Counties (e.g. Darke, Mercer, Milami, Montgomery, Van Wert etc.).	Complete Quantitative Reting	

ļ

invasive/exotic app	fen species	pod sbecies	0ak Opening species	wet prairie species
Губития зайсата	Zygodenus elegans var glaucus	Calla paisatra	Carex cryptolepus	Calamograstis canadensis
Myriophyllum spicatum	Cocalta plantagmes	Cares atlantics war capillaces	Carex lassocurpa	Calamograstis stricts
Najas minor	Carex flava	Carex echinata	Canex stricts	Carex atherodes
Phalaris arandinacea	Cares sterilis	Carer oligosperma	Cladum marucoldes	Corex burbanesi
Phraymites australis	Cares stricts	Carex Insperma	Calamagrastis stricts	Carex mellus
Polamogeton crispus	Deschampsia cuespribra	Chamaedaphne cabculata	Calamagreen is considerate	Carrie surfreellii
Kammenins ficana	Eleocharts rostellata	Decodon verticillatur	Querras palustris	Gentland andrewell
Rhammus françula	Епорнотим мітаватімалим	Eriophorum virginicum		Helianthus prostesserratur
Typha anguatifolia	Gentlanopals spp	Lanz laricina		Lietris spicete
Typho xglasce	Lobelia kalmii	<b>Nenoparthus mucronalus</b>		Lystmachta moonflore
	Parmassia glauce	Scheckzene palustnie		Lythron alation
	Potentilla fruticosa	Sphagmum app		Pronanthemum wrgmianum
	Rhammus alnyolus	<b>Уассінічня тастосатров</b>		Suphice terebrichmoceton
	Rhynchospora capillacea	Увестиния солутболия		Sorghastrum nutang
	Salix candida	<b>Увесичит</b> вхусосов		Sparting pectings
	Solix myracoides	Woodwardsa virgunica		Solidago riddellii
	Salet seriesuna	Xyris difformis		
	Solidago ahioends			
	Tofieldia glutinosa			
	Triglochus maratimuse			
	Third and an articular			

End of Narrative Rating. Begin Quantitative Rating on next page.

ORAM v 5.0 Fleid Form Quantitative Reting	W-2, W-3, W-4, W-5	က္
Site: South Field Energy Interconnection Facilities	Mes Rater(s). E. Kennedy	412912015
1 1 Metric 1. Wetland Area (size).  ***Read one size class and session score.  ***Select one size class and session score.  ***The state of the stat	1. Wetland Area (size).  is bess and seign some.  so serse (20.2m) (sp. 00.0m)  stor-so serse (10.1 to <0.0m) (spe)	
10 to 25 same (4 so cito) 3 to cito anne (4 so cito) 3 to cito anne (5 so cito) 3 to cito anne (5 so cito) 3 to cito anne (5 so cito) 3 to cito anne (5 so cito) 4 to cito anne (6 so cito)	10 to 425 mass (4 to <10,1 ha) (4 pb) 4 to 42 mass (4 to <10,1 ha) (4 pb) 6.3 to <3 mass (7/2 to <1/2 ha) (2 pb) 6.3 to <3 mass (7/2 to <1/2 ha) (2 pb) 6.4 to <3,2 mass (7/2 to <1/2 ha) (1 pl) 40.1 sores (0.04 ha) (1/2 ha) (1 pl)	
Metric 2. Uplan	Metric 2. Upland buffers and surrounding land use.  22. Catalos serge bufer with, Seed only one and seeing score. Don'd obbe chad,  24. The control of the control of the second seeing buffers and professional seed of the second seeing of control of the seed of the second of the see	USO. had. hame to
20 Hisman Very Naverow 20 Hisman of enverting to 21 Hisman of enverting to 22 COW ON BANK MODERATE VE	MARSOW Buffers average (Din to <25m (20th c-625t) around well-and pertinater (1)     VERY WARDOW Buffers average <10m (<25th sound well-and pertinater (6)     This makes of a contract of the contract of t	(i) (ii) (iii) (iv) (iv) (iv) (iv) (iv)
20 30 Metric 3. Hydrology.	logy.	CornectMty
High pM groundwater (s)  X Other groundwater (s)  X Other groundwater (s)  X Seasonal/Internitien's ex	High plr (pourbowine (s) Cher grandwate (s) Predichidron (1) Seasonaliniam libert lauritos weller (3)	
3c. Maximum water depth. Saled only one and easing soon. 3c. Maximum water depth. Saled only one and easing soon. 3c. 12(2 feb.)(3) 3c. 12(2 feb.)(3) 3c. 12(2 feb.)(3) 3c. 12(2 feb.)(3) 3c. 12(2 feb.)(4) 3c. 12(2 feb.)(5)	Vereinfall suffice water (Miss of stewart (5))  Vereinfall suffice water (1)  Of 127 (201) (3)  Of 60 7 (157 to 27 (801) (2)  Of 60 7 (157 to 27 (801) (2)  Of 60 7 (157 to 27 (801) (2)	yorkstudion. Score one or did chads.  Sent-to permanently hundelockstumied (4)  X. Regularly involutiostystumied (5)  Seasonally involution (20)  Seasonally involution (20) (1)
Aberra or nove appeared (12)  X Recovered (1)  Recovering (1)  Recovering (1)	* <b>   9</b>	point source (constormester)  standy graden  Total badRRP track  architecture desting  Other desting
9 39 Metric 4. Habitat Alte	Metric 4. Habitat Alteration and Development.  Le Subsers delutione. Som on or doubt check and semple processes (s) Recovered (s)	
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П	Check el c	avorani dajdas/grups
A Faccinit or no recovery (1)	overy (1) ceercutting	

ORAM v 5.0 Fleid Form Quantitative Reting	n Quantibative	Rating W-2, W-3, W-4, W-5	N-4, W-5	
Site. South	ald Energy for	South Field Energy Interconnection Facilities Rater(s	Rater(s). E. Kennedy	4/29/2015
L	Г			
ကို	<b></b>			
30	_	Metric 5. Special Wetlands.		
_[	٦Ť	Check at that apply and acore as indicated.		
	L	Bog (10)		
		Fen (10)		
		Old growth forest (10)		
		Meture forested wetend (5)		
		Lake Erie countal/tributary wetland -urrestricted hydrology (10)	ficted hydrology (10)	
		Lake Erle countai/tributary wetland-restricted hydrology (5)	of hydrology (5)	
		Lake Plain Sand Prairies (Oak Openings) (10)	(5)	
		Refict Wet Prairies (10)		
	j	Known occumence state/federal firrestened or endengered species (10)	or endengered species (10)	
		Significant migratory sungbirdwinter fow habitat or usage (10)	ablast or usage (10)	
		Category 1 Welland. See Question 1 Qualifostive Rating (+10)	Ballive Rating (-10)	
1 40		Metric 6, Plant communities, interspersion, microtopography.	nterspersion, mic	rotopography.
max 20 pls. subbia	٦	St. Wedand Vigotation Communities.	Vegatation Consmunity Cover Scale	Scale .
		present using 0 to 3 scale.	0	Absent or comprises <0 Ths (0.24.71 acres) configurate area
		Aquatic bed	,	Present and either comprises small part of welfand's vegelation and is
	-	Emergent	-	of moderate quality, or compress a significant part but is of for quality
	٥	Shrub		Present and either comprises supriticed part of wedend's vegetation
	٥	Forest	N	and is of moderate quality, or comprises a small part and is of high quality
		1		Present and comprises significant part, or more of wedand's
		Open Water	•	vegetation and to of high quality
		1		
	6b. Horizo	6b. Horizontal (plan view) intersperator.	Narrathe Description of Vagetation Quality	Affect Quality
	Score only one.	yane		Low top diversity and/or predominance of normative or disturbance
		High (5)	MG	Identry native species
		Moderatory high (4)	poul	Native app are dominant component of the vegetation, eithough
		Moderate (3)		normanew and or calculations a present many app can emp be present, and species diversity moderate to moderately high, but generally with
		Moderately low (2)		presence of rare, finantened, or endengered epp
	×	Low (t)	hgh	A predominance of netive species, with normative spp and/or
				disturbance tolerant native app absent or virtually absent, and high and discoults and others had not chance the commence of man
	Sc. Cover	Coverage of investive plants. Refer to		applications of an designed app
	Table 1 Of	Table 1 ORAM long form for list. Add or	Mudflat and Open Water Class Quality	Quality
	Degrad bo	deduct points for coverage.		Absent <0 ths (0.24/ acres)
		Edminive >75% cover (-5)	-	Low 0.1 to <ths (0.247="" 2.47="" scress)<="" td="" to=""></ths>
		Moderate 25-75% cover (-3)	2	Moderate 1 to <4/te (2.47 to 9.88 ecree)
	×	Sparse 5-25% cover (-1)	8	High Ahe (9 55 acres) or more
		Nearly absent <5% cover (0)	Microtopography Cover Scale	
		Absent (1)	•	Abert
	6d Micros	8d. Microlopography		
	Score all pr	present using 0 to 3 scale	-	Present in very arnel amounts or if more common of marginal quality
	٥	Vegetaind hummuckshuseucks	8	Present in moderate amounts, but not of highest quality or in small
		Coarse woody debrie > 15cm (Ser)		emounts of hypher query
	•	Standing dead >25cm (10h) dbh	•	
ſ	,	Amphiciaen breeding pode		Present in moderate or greater emounts and of highest quality
200	TOT CH	A1 / 400		

40 GRAND TOTAL (max 100 pts)
New to the most rocal CNAM scorn calibration report for the scoring brailepoints between conspores at the following soldness: this Japan

### **ORAM Summary Worksheet**

	Result		If yes, Category 3	If yes, Calegory 3	If yes, Category 3	If yes, Category 3	If yes, Category 1	If yes, Calegory 3	If yes, Category 3.	If yes, Category 3	If yes, evaluate for Category 3, may also be 1 or 2	If yes, evaluate for Category 3, may also be	If yes, Category 3	if yes, evaluate for Category 3, may also be 1 or 2	If yes, Catagory 3	If yes, evaluate for Category 3, may also be 1 or 2							Category based on score breakpoints Modified 2
circle	Insert	Score	YES (NO)	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO		YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	-	6	8	6	٥	-	40
			Question 1 Critical Habitat	Question 2 Threatened or Endangered Species	Question 3 High Quality Natural Wetland	Cheston 4 Significant bird habitat	Question 5 Category 1 Wetlands	Question 6 Bogs	Question 7 Fens	Question 8a Old Growth Forest	Question 8b Matura Forested Wetland	Question 9b Lake Ene Wetlands - Restricted	Question 9d Lake Ene Wetlands – Umestricted with native plants	Question 9e Lake Ene Wetlands - Unrestricted with invasive plants	Question 10 Oak Openings	Question 11 Relict Wet Praines	Metric 1 Size	Metric 2 Buffers and surrounding land use	Metric 3 Hydrology	Metric 4 Habitat	Metric 5 Special Wetland Communities	Metric 6 Plant communities, interspension, microtopography	TOTAL SCORE
			Narrative Rating														Quantitative Rating	•					

Complete Wedand Categorization Worksheet.

# Wetland Categorization Worksheet

Did you extraved "Yes" to any YES" Welland is a freedy of the blowing gwastions of the blowing gwastions welland us a category of the welland us and the blowing gwastions and the blowing gwastions welland us a category of the welland us and the blowing gwastions of the blowing gwastions and the blowing gwastions and the blowing gwastions and the blowing gwastions and the blowing gwastions and the blowing gwastions and the blowing gwastions and the blowing gwastions and the blowing gwastions and the blowing gwastions and the gwasting welland is desirable category of the blowing gwastions and the gwasting gwastions and the gwasting gwastions and the gwasting gwastions and the gwasting gwastions and the gwasting gwastions and the gwasting gwastions and the gwasting gwastions and the gwasting gwastions and gwasting gwasting gwastions and gwasting gwastions and gwasting gwastions and gwasting gwastions and gwasting gwastions and gwasting g	Choloes	Circle one		Evaluation of Categorization Result of ORAM
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Westernal is collegated to a callegated to by the membro a callegated to be a callegated to by the membro a callegated to by the membro a callegated to be a callegated	of the following questions		)	threshold (excluding gray zone)? If yes, reevaluate the
24. Category 3 wedand  25. Category 3 wedand  26. Second about to a wedaused for a wedaused for a category 1 wedand  26. Wedand is a category 1 wedand  26. Second about to a category 1 wedand  26. Second about to a category 1 wedand  27. E.S. NO  28. Wedand is a category 1 wedand  28. Wedand is a category 1 wedand  28. Wedand is a category 1 wedand in a category to the actegory and a category wedand in the category as a category wedand in the category as a category was done of category as a category as a category as a category as a category as a category as a category as a category as a category as a category as a category as a category as a category as a category as a category as a category as a wedand was a wedand to provided A category as a wedand to provided A wedand to p		Welland is		category of the wetland using the nametive catteria in OAC
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higher of the hor calegories or assigned to a calegorie or assigned to a calegory based on desarrant and the narrative criteria Vestand was Westand to Underdesportate and the method A written healthcasted or determined for mestingorization or the should be provided on Background information form	Category 1 or 2 or Category	Wedand is		results of a norrapid wetland askessment method, e.g.
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easigned to a calegories or calegories or calegory based on detailed sassesments and the nametre criteria Welland was Welland is uniforcategorized with the name of the named		higher of the two		consideration of the narrative criteria in CAC rule 3745-1-
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Welland wes Welland is understand yelland is understand yellan	exhibit moderate OR superior		)	still advits one or more superior functions and a westignal's
uniformation assigned to by the method of white method of well as well	hydrologic OR habitat, OR	Welland was	Wetland	high: communities may be demarked by human activities.
by this method A calegory as written buildington determined for recalegorization by the strond to provided on Badground Information Form	necreational functions AND	undercalegorized	assigned to	but the wetland may still exhibit superior hydrotopic
written pastification determined for recatigorization by the should be provided of the first of	the wetland was not	by this method A	calagory as	functions because of its type, landscape position, size, local
for recategorization by the should be provided ORAM on Background information Form	categorized as a Category 2	written kustification	determined	or regional significance, etc. In this circumstance, the
should be provided ORAM on Background by Information Form	wetland (in the case of	for recategorization	by the	narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are
on Background by Information Form	moderate functions) or a	should be provided	ORAM	controlling, and the under-categorization should be
nor tunctions) by Information Form	Category 3 wetland (in the	on Background		corrected. A written justification with supporting reasons or
	case of superior functions) by	Information Form		Information for this determination should be provided.
	Pomen and			

	Category 3	
nal Category	Category 2	
	Category 1	
	Choose one	

End of Ohio Rapid Assessment Method for Wetlands.

### Background Information

Name. Ann Gilmore/Mary Gilmore	
Date 11/24/2015	
Affiliation EnviroScience Inc.	
Address. 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
e-mail address. agilmore@EnviroScienceInc.com	
Name of Wetland: W-6	
Vegetation Communit(Res) PEM	
HSM Classics Depression	
Location of Wettand Include map, address, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
oordinal e	-80 726646
USGS Qued Name	West Point
County	Columbiana
Township	Madison
Section and Subsection	
Hydrotogic Unit Code	#05030101
Ωie Veit	11/24/2015
Netional Welland Inventory Map	×
Chio Wetland Invertion Map	
Soil Survey	×
Delineation reportinap	×

Name of Welfand 187, 6	
1	
Sketch Include north arrow, relationship with other surface waters, vegetation zones, etc.	Mc.
Please refer to site wetlands and water resources map.	
e Discussion, Justification of Catagory Changes	
Final score: 47	Category: 2

### Scoring Boundary Worksheet

INSTRUCTIONS The mutual step m completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated estatial marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contigeous areas or heterogeneous complexes of wetland an upland. In separating wetlands for accorning purposes, the bytologic regime of the wetland is the main criterion that should be used. Boundaries between contigeous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes a negatificantly. Areas with a fight degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's accounts boundaries, use the guidelines in the ORAAM Mannal Section 5 0 in certain nationes, at may be difficult to establish the seconing boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or nationed minathionistic wetlands that are contiguous with streams, and estuamne or costait wetlands. These situations are discussed below, bowever, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clanification of the appropriate socining boundaries of a particular wetland.

	Steps in property establishing acoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the locations where there is physical evidence that hydrology observed upon the partial evidence that hydrology observed but nearth and former induced changes including, consintions caused by berms or deas points where the water worldly changes rightly at inspite or falls, points where algorithms inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wellsho	×	
Stap 3	Deinwate the boundary of the welland to be rated auch that all areas of interest that see configurations is mad within the areas where the hydrology does not change algoffcantly, i.e. areas that have a high degree of hydrologic hieraction are included within the scorting boundary.	×	
Stap 4	Determine & artificial burdiaries, such as property larges, sides innes, music innes, music innes, music innes, music innes, music protesar. Three artificial nut used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes	×	
Step 5	In all instances. The Reter may eviluge the informun accurage bounderies discussed here to accer together wedends that could be accord apparately		×
Step 6	Consult ORAM Manual Section 5.0 for how to establish econing boundaries for wetlends that form a patchwork on the landscape, devided by artificial boundaries, contiguous to streams, lakes or hivers, or for dual classifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

#### Narrative Rating

INSTRUCTIONS Answer each of the following questions Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the hierature and by submitting a Data Services Request to the Ohio Department of Natural Resources. Division of Natural Areas and Preserves. Natural Heritage Data Services, 1889 Fourtam Square Court, Building F.-1, Columbus, Ohio 43224, 614-265-463 (plorae), 614-265-4096 (fax), http://www.dir.silste.oh.is/diago. The renaming questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these welland types. Note "Critical habital" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

34	Orasilos	Cumple and	
	ALCOUNT I	Cettle time	
-	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrande that has	YES	<b>₽</b>
	been designated by the U.S. Fish and Wildlife Service as "critical	Wetland should be	Go in Question 2
	Note as of January 1, 2001 of the federally letted entervened or	Eventated for possible	
	threstened species which can be found in Ohio, the Indiana Bat has	ample of todays	
	had critical habitat designated (50 CFR 17 85(s)) and the piping plover has had critical habitat connected (65 FR 41812 link & 2001)	Go to Question 2	ļ
7	Threatened or Endangered Species. Is the welland known to cordan	YES	[NO]
	an individual of, or documented occurrences of federal or state-listed		)
	threatened or endangered plant or enimal species?	Wetland is a Category 3 wetland.	Go to Question 3
		Go to Question 3	(
•	Documented High Quality Wetland. Is the welland on record in	YES	(on)
	Malure i from 1808 L'enzades es e l'Kan questry weutend?	Wedand is a Category	Go to Question 4
		Go to Question 4	
	Significant Breeding or Concentration Area. Does the welland	YES	(ON
	contain documented regionally significant breading or nonbreading		)
	waterfowl, neofropical songbird, or shorebird concentration press?	Wetland is a Catagory 3 wetland	Go to Question 5
-	Catagory 4 Wolfands to the melicial lase than A.S. hardware (4 ages)	CIONESPOLI D	
,	design of the control of the second of the following of the second of th	3	
	vegetation that is dominated (greater than eighty per cent areal cover)	Wetland is a Catagory	Go to Question 6
	by Phalants arundinacea, Lythrum salicarie, or Phregmiles australis, or	1 wedand	
	<ol> <li>an addic pond created or excavated on mined lands that has little or an incompation?</li> </ol>	9 1 2 1	
,	TO Vergetation?	Go to Cuestion 6	
-	Bogs. Is the wettand a peal-accumulating wetland that 1) has no storificant inflore or outflows. 2) succeeds artificially message.	YES	<u> </u>
	particularly Schednurs app. 3) the acidochilic mosass have >30%	Wetland is a Category	Go to Question 7
	cover, 4) at least one species from Table 1 is present, and 5) the	3 wetland	
	COVER OF ITWESTIVE SPACKES (600 18048 1) IS 4.076?	Go to Question 7	(
7	Fens. Is the wetland a carbon accumulating (peal, muck) wetland that	YES	(ON)
	is saturated during most of the year, primarily by a discharge of free		; );
	nowing mineral mort, ground water with a circumneutral pn (5.5-9.0) and with one or more plant apacles listed in Table 1 and the power of	Wedend is a Calagory	Go to Cheetion de
	invasive species fisted in Table 1 is <25%?		
1		Go to Question Ba	
ž	"Old Growth Forest," Is the welland a forested welland and is the formal characterized by his not limited to the following characteristics.	YES	ON)
	coversions canony these of preset and (expending at least 50% of a	Wetherd is a Colector	2 mg
	projected maximum attainable age for a species); #tile or no evidence	3 wedand	
	of human-caused understory disturbance during the past 80 to 100	400000000000000000000000000000000000000	
	years, an all-aged structure and mutifilityered canoples, aggregations of canopy best interspensed with canopy gaps, and significant numbers	Go to Cuestion 8b	
_	of standing dead snage and downed logs?	_	

κņ

<b>a</b>	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest cencor consisting of	YES	<b>№</b>
	decidences frees with large dameters at breast hegiti (dbh), generally diameters greater than 45cm (17 7m) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	(
8	Lake Erie coastal and tributary wetlands is the wetland located at	YES	(ON)
	an elevation less than 575 feet on the LAGS map, adjacent to this elevation or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
a	Does the welland's hydrology result from measures designed to present emelor and the loss of equational to the united to	YES	ON
	partially hydrologically restricted from Lake Erie due to lakeward or tendward dikes or other hydrological controls?	Wetland should be evaluated for possible	Go to Question 9c
		Go to Question 10	
3	Are Lake Ene water levels the welland's primary hydrological influence,	YES	ON
	border alterations, or the welland can be characterized as an	Go to Question 9d	Go to Question 10
	"estuante" wetland with lake and there influenced hydrology. These include sandbar deposition wellends, estuaries wetlands, river mouth wetlands, or those doministed by submersed equatic vegetation.		
3	Does the welland have a predominance of native species within its	YES	NO.
	Volgouinal Catalinames, survogal Inchiserve La Listableane Exversa, netive species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
å	Does the welland have a predomnence of non-native or disturbance tolerant native clerk scenae within its vecetation comment less?	YĒS	ON.
		Wedand should be	Go to Question 10
		evaluated for possible Category 3 status	
		Go to Question 10	
10	Lake Plain Sand Prairies (Oak Openings) is the welland located in	YES	(ON)
	Lucas, Futon, Herry, or Wood Countes and can the wedand be characterized by the following description, the westland has a sandy	Wettend is a Category	Goth Quantition 11
	substrate with interspensed organic metter, a water table often within	3 wedand	
	several inches of the surface, and often with a dominance of the comminents vacatation listed in Table 1 function and the standard and the	St. Charles 11	
	present). The Chio Department of Natural Resources Division of	II IMBOO GO	
	Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quelity		_(
F	Relict Wet Prairies is the wetland a reict wet prame community	YES	(ON)
	committed by some of all of the speciet in labe 1. Extensive prairies	Manage of the Asia	) [
	Were runnerly accased in the Derby Planta (Mediaton and Union Counties), Sendusky Planta (Wyandot, Crawford, and Merion	evaluated for possible	Complete
	Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties).	Calagory 3 status	Rating
	And portors of western Chio Columns (e.g. Dame, mercer, mistra, Mortgomery, Van Werl etc.).	Complete Quantitative	
		יישניי	

invasive/exotic app	fen species	sepeds Soq	Cak Opening species	Wet prairie species
<b>Еубячы зайсала</b>	Zygudenus elegans var glaucus	Calls painstru	Carer cryptolepus	Calamagrostis canadensis
Myrtophyllum spicatum	Cacalta plantaginea	Carex atlantics var capillaces	Carex lastocarpa	Calamoerostu atricta
Najas musor	Carex flows	Caner eclusate	Carex stricts	Carer atternates
Phalaru arundinacea	Cores storilly	Carer olisomerme	Cadium marismides	Corner Australiani
Phragmates australis	Carex stricts	Carex framerad	Calamormetis stricts	Corner medito
Potamogeton Granus	Deschantasa caetalasa	Chamandanime cathersias	Calomorphist canademis	Contraction of the Contraction o
Ramerculus ficaria	Eleocharia rostellata	Decodor verticilistes	Chemine sochustria	The second of
Rhammer francula	Ericonorum wrudearmanes	Entoniorum wirotonom		Marie annual ann
Proha ampairtiolia	Gestianonsis ma	Loris lancam		Company of the Compan
Typha velance	Lobelta kalmu	Nemonatchus -ucronatus		DESCRIPTION OF THE PARTY OF THE
	Parauma glauce	Scheckzenia palustria		Lubranialan
	Potentila fraticasa	Sofognam soo.		Protontheman virginional
	Rhammus aintfolia	<b>Уассиция мастосогром</b>		Subhion terebadhaconus
	Rhymchospora capillacea	<b>Уассілим</b> согитбовим		Sarahaminan mutane
	Salir candida	Увесиния акмененя		Sparting pertings
	Salts myricoides	Woodwardsa vygsnes		Solidore reddistill
	Solit serissima	Auris differents		
	Solidare objection			
	Tofieldia phainasa			
	Priglochia maritaman			
	Prefocus netestos			

End of Narrative Rating. Begin Quantitative Rating on next page.

ORAM v 6.0 Field Form Quantitutive Rating	Ournituding Rating	W-6	
Site: South Flack	South Field Energy interconnection Facilities	Ann Gilmore/Mary Gilmore	11/242015
2 2 mar 6 gt. passed	Metric 1. Wetland Area (\$12e). Selections size class and assign score.  760 score (\$202a) (\$pb).  250 score (\$202a) (\$pb).  250 score (\$202a) (\$pb).  250 score (\$100 score) (\$pb).  261 to (\$100 score) (\$100 score) (\$pb).  261 to (\$100 score) (\$100 scor	Metric 1. Wetland Area (size).  Select one size class and assign accor.  -50 some P202nal (i) pis)  250 some (10 to 420 some (	USG.  buck.  manier (4)  chronien (5)  (9)  c. (7)  (9)  (1)
ma 30 pts. materials 3c. Macdinum water dep	Metric 34. Sours X X X X X X X X X X X X X X X X X X X		3b. Connectivity. Score all that appty    Onest incompared to the content of the
	X   None or none apparent (12)   Recovering (3)   Recovering (3)   Recovering (3)   Recovering (4)   Recovering (4)   Recovering (5)   Recov	Chick at desirctances observed	point source (norationmester) Altray grading not deed/RR track drading Other clearing
15 47	Metric 4. Habitat Alteration and Deve at Steams deturence, Soor one of doubs shock and swarps X. None or one upeant (4) Recovered (2) Recovering (2) Recovering (2) Recovering (3) Recovering (4) Rebull (every good (3) Cood (5) Recovering (3) Rebull (every good (4) Rebull (eve	Metric 4. Habitat Alteration and Development.  X. Someties deturbance. Some one or double check and average  X. Someties deturbance. Some one or double check and average  (Someties or none appeared (4)  (Someties or none appeared (5)  (Someties or none appeared (5)  (Someties or none or none appeared (6)  (Someties or none or none or none or none are none or none and are none or none to see (5)  X. Poor to see (5)  X. Poor to see (5)	
47 A source line page	×		Arrichaeping renoval restinacionalista del renoval accimentation desdring desdring frames frames frames frames

Contractive or your control of the

47 GRAND TOTAL (max 100 pts)
Nefer to the most of the score conference interests to scoring breakpoints to be seen

### **ORAM Summary Worksheet**

	91	Result	If yes, Category 3	if yes, Category 3	If yes, Catagory 3	If yes, Category 3	if yes, Category 1	If yes, Catagory 3.	If yes, Category 3	If yes, Category 3	If yes, evaluate for Category 3, may also be 1 or 2	If yes, evaluate for Category 3, may also be 1 or 2	if yes, Category 3	If yes, evaluate for Category 3, may also be 1 or 2	If yes, Category 3	If yes, evaluate for Category 3, may also be 1 or 2							Category based on score breakpoints 2
circle	Tree I	SCORE	YES (MO)	YES (NO	YES (NO	YES CAS	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO)	YES (NO	YES (NO	2	14	9	15		0	47
			Guestion 1 Critical Habitat	Question 2 Threatened or Endangered Species	Question 3 High Quality Natural Wetland	Question 4 Significant bird habitet	Question 5 Category 1 Wellands	Question 6 Bogs	Question 7. Fens	Question 8a. Old Growth Forest	Question 8b Mature Forested Welland	Question 9b Lake Erie Wetlands - Restricted	Question 9d Lake Ene Wetlands — Unrestricted with native plants	Question 9e Lake Ene Wetlands - Unrestricted with invasive plants	Guestion 10 Oak Openings	Question 11 Relict Wet Prames	Metric 1, Size	Metric 2 Buffers and surrounding land use	Metine 3 Hydrology	Metno 4 Habitat	Metric 5 Special Wedand Communities	Metric 6. Plant communities, interspersion, microboography	TOTAL SCORE
			Narrative Rating														Quantitative Rating						

Complete Wetland Categorization Worksheet.

# Wetland Categorization Worksheet

Did you answer "Yes" to any of the following questions Namstive Redrig Nex. 2. 3, 4, 6, 7, 8a, 9c, 10 Did you answer "Yes" to any of the following questions	YES	ON.	te constitution ration acres than the Calebrate Constitution of
of the following questions Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 64, 10 Did you answer "res" to any of the following questions	2	?	
Nemative Reting Nos. 2, 3, 4, 8, 7, 8s, 96, 10.  Did you enswer "Yes" to any of the following cuestions.		`	Person of the control
Nemative Reting Nos. 2, 3, 4, 8, 7, 8a, 9d, 10  Did you answer Yes' to any of the following questions		)	THESTOOD (SYCHOLD GRAY ZONE)? If yes, reevaluate the
A, 6, 7, 8a, 9d, 10 Did you arrawer "Yes" to any of the following questions	Wedend Is		category of the welland using the nametive criteria in OAC
4, 6, 7, 8a, 9d, 10  Did you answer "Yes" to any of the following questions	categorized as a		Rule 3745-1-54(C) and blological and/or functional
Did you answer "Yes" to any of the following questions	Category 3 wedand		assessments to deferrate if the wettend has been over- categorized by the CRAM
of the following questions	VES.	QN	Evaluate the wetland soins the 1) paratine criteria in OAC
		)	Rule 3745-1-54(C) and 2) the quantitative ration serves if
	Welland should be		the welland is determined to be a Category 3 welland using
Nametive Reting Nos. 1, 8b,	eveluated for		either of these, it should be categorized as a Calegory 3
9b, 9e, 11	possible Calegory		wetland. Detailed blological and/or functional assessments
	3 starus	(	may also be used to determine the wetland's category
Old you enswer "Yes" to	YES	(ON)	is quantitative rating score greater than the Category 2
:		)	scoring threshold (including any gray zone)? If yes,
Nametive Rating No 5	Wetand to		reevaluate the category of the welland using the namelive
	categorized as a		criteria in OAC Rule 3745-1-54(C) and biological and/or
	Cetegory 1 wedayd		hundonal assessments to determine if the welland has
Does the quantitative score		Q <sub>2</sub>	if the arrow of the western is breated within the environ
fall within the scoring pange	)	?	rance for a particular category, the welfand should be
of a Calegory 1, 2, or 3	Weland is		assigned to the calegory. In all instances bowever the
weethand	pesitoned to the		narration reflects described in OAC Date 3745-1-54/C) can
	acomoniate		be used to clarify or chance a catecodization based on a
	calegory based on		Outendative score
	the scoring range	(	
Does the quantitative score	YES	ON	Rater has the option of assigning the welland to the higher
fell with the gray zone for		_	of the two categories or to assign a category based on the
Calegory 1 or 2 or Category	Weland is		results of a normapid wetland essessment method, e.g.
2 or 3 wedands?	assigned to the		functional assessment, triological assessment, etc., and a
	higher of the two		consideration of the nemetive criteria in OAC rule 3745-1-
	categories or		SE(C).
	assigned to a		
	category based on		
	Announcements and		
	the nemative		
	criterie		
Does the wetland otherwise	YES	QQ.	A wetland may be undercategorized using this method, but
exhibit moderate OR superior		)	still exhibit one or more superior hindbons, e.g. a welland's
nyaroogic UK nabitat, UK	Welland was	Wedend is	biotic communities may be degraded by human activities,
recentant uncount AVD	Dezuodeneanen	OI Deudisse	but the wetend may still exhibit superior hydrologic
Colombiad as a Calculus	of the method A	Company and	functions because of its type, language position, 6256, 1908
walland (in the case of	for montaneous	1	remarked outland in CAC Date 3745-4-54/01/21 and 421 are
moderate functions) or a	should be provided	NA GO	contaction and the index of and about the should be
Cataonry 3 welland (in the	on Reckonsor	_	controlled & widten has been with a most than an
case of superior functional by	Information Form		information for this determination should be provided
this method?			
		_	

Category	
Final Category 2	
Ose one Category	

End of Ohio Rapid Assessment Method for Wetlands.

### **Background Information**

Name. Ann Gilmore/Mary Gilmore	
Delia 11/24/2015	
Amilaton, EnviroScience Inc.	İ
Address 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
e-mail addinase. AGilmore@EnviroScienceInc.com	
Name of Wetland: W-7, W-8	
Vegetation Communit(les) PEM	
HGM Class(es) Depression	
Location of Wetland, Include map, address, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	<u>-</u>
	_
	_
Lait Drig or UTM Coordnate 40 645928, -80 726759, 40 646036	-80.726583
LSGS Quad Name	West Point
County	Columbiana
Township	Madison
Section and Subsection	
Hydrologic Unit Code	#05030101
SiaVeit	11/24/2015
National Wedand Inventory Map	×
Ohio Wetland Inventory Map	
Sold Survey	×
Delineation reportimap	×

Watand Size (serse, heckway)  Watand Size (serse, heckway)  Please refer to site wetlands and water resources map.  W-7: 0 049 acres onsite  W-7: 0.012 acres onsite  Comments, Marative Discussion, Justification of Category Charges
Willand Size (ecres, Inschere)  Statch Include north arrow, residenting with other audices witers, vegeration zones, etc.  Please refer to site wetlands and water resources map.  W-7: 0.049 acres onsite  W-8: 0.012 acres onsite  W-8: 0.012 acres onsite  Comments, Marrative Discussion, Justification of Category Changes
Wetland Stra (excres, hectare)  Swetch knotide north arrow, relationable with other surface waters, vegetation zones, etc.  Please refer to sife wetlands and water resources map.  W-7: 0 049 acres onsite  W-8: 0.012 acres onsite
Wetland Size (scres, hacteres) Total 0.061 acres onsite Statch include north arrow, relationship with other surface writers, vegetation zones, stc. Please refer to site wetlands and water resources map. W-7: 0.049 acres onsite W-8: 0.012 acres onsite
Wetland Size (sures, hectares) Total 0.061 acres onsite Statch kniude north arrow, relationship with other surface waters, wegtation zones, str. Please refer to site wetlands and water resources map. W-7: 0 049 acres onsite W-8: 0.012 acres onsite
Wetland Size (scree, hectains) Total 0.061 acres onsite Statch knotch arrow, relationship with other auriscs waters, vegetation zones, etc. Please refer to site wetlands and water resources map. W-7: 0 049 acres onsite W-8: 0.012 acres onsite
Wetland Size (ecres, hectaire) Total 0.061 acres onsite Statch include north arrow, relationship with other surface weters, vegetation zones, etc. Please refer to site wetlands and water resources map.
Wetland Size (ecres, hectares) Total 0.061 acres onsite
Name of Wetland, W_7, W_8

### Scoring Boundary Worksheet

INSTRUCTIONS The mutal step in completing the ORAM is to identify the "scoring boundaries" of the wedland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundaries, and in mash located cattal ments hocard in the middle of a farm field will likely be the same as that welland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wellands that are small or uplated from other surface waters often form large contiguous areas or heterogeneous complexes of welland and upland. In separating wellands for scoring purposes, the hydrologic regime of the welland is the main criterion that should be used. Boundaries between configuous or connected wellands should be established where the volume, flow, or velocity of water moving through the welland changes significantly. Areas with a high degree of hydrologic interaction should be secred as a single welland. In determining a welland's scoring boundary for the wetland being rated. These problem situations include wellands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fence, roads, or rairoad embalishments, wellands that use contiguous with streams, lakes, or rivers, and estuarne or coastal wellands. These situations are discussed below, bowever, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 4011Wellands Section if there are additional questions or a need for further clanification of the appropriate scoring boundaries of a particular welland.

	Steps in property setablishing acoring boundaries	done?	not applicable
Step 1	Identify the welland area of inferest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Ideatify the locations where there is physical enderice that hydrology changes include Such evidence includes both netters and humaninciaed changes including, constitions caused by beins or disea, points where the water workly changes insplying insplict or fish, points where significant inflows occur at the confluence of hers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.	×	
Step 3	Delineate the boundary of the welland to be raied such that all alreas of interest that are configured to are raied sense where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interection are included within the scoring boundary.	*	
Step 4	Determine if auticial boundaries, such as properly lines, state lines, noteds, related emberhoments, etc., are present. These should not be used to establish scoring boundanes unless they coincide with areas where the hydrologic regime changes	×	
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wellands that could be scored separately		×
g degs	Consult ORAM Manual Section 5 0 for frow to establish scoring boundaries for wellands that form a patchwork on the landscape, divided by artificial boundaries, configuous to streams, lakes or rivers, or for fullsi clessifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

'n

#### Narrative Rating

INSTRUCTIONS Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site wist or the literature and by submitting a Data Services Request to the Ohio Department of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fourtain Square Court, Building F.-1, Columbus, Ohio 43224, (14-265-4653 (phone), 614-265-3096 (fax), http://www.dur.stalg.chj.uk/ding. The renaming questions are designed to be answered primarily by the results of the site wist. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical labritai" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a latest opened ornact the Region 3 Headquarters of the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally isted threatmed or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database

*	Question	Carcle one	
F	Critical Habitat. Is the welland in a township, section, or subsection of	YES	(ON)
	a United States Georgical Survey 7.5 minute Littlediangle trait near been designated by the U.S. Fish and Wildlife Service as "critical	Wetland should be	Go to Question 2
	habitat for any threatened or endangered plant or animal species?	evaluated for possible	
	twostened acecies which can be found in Orio, the Indiana Bat has	Calegory 5 seams	
	had critical habitat designated (50 CFR 17 85(a)) and the piping plower has had critical habitat proceed (65 FR 41912 July 6, 2000)	Go to Question 2	(
7	Threatened or Endangered Species. Is the wetland known to contain	YES	(ON)
	an individual of, of documented occurrences of tederal or state-listed.  Overstoned or entlancered plant or minnal species?	Welland is a Category	Go to Question 3
	•	3 wetland.	
		Go to Question 3	(
m	Documented High Quality Wetland. Is the wetland on record in	YES	(ON)
	rainta horinaga Leaskasa as a sa lagu kusan watan ka	Wetland is a Category	Go to Question 4
		Sold of the state	
-	Storiff cant Breadling or Concentration Ass. Does the welland	VES CLOSSICE +	
,	contain documented regionally significant breeding or nonbreeding	}	)
	weterfowl, neotropical songbird, or shorebird concentration areas?	Wetland in a Calagory	Go to Question 5
		3 Wedand	
		Go to Question 5	
H7	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in eace and historical contains and aither 1) connected of	YES	<b>?</b>
	vegelation that is dominated (greater than eighty per cent ereal cover)	Wetland is a Category	Go to Question 8
	by Phalatta arundinacea, Lythrum salicaria, or Phragmiles australis, or 2) as additional conditions for the last or an additional production of the last or an additional production of the last or an additional production of the last or an additional production of the last or an additional production of the last or an additional production of the last or an additional production of the last of the la	1 welfand	
	Ly an action point created or exceptible or management and management may make the or	Go to Question 8	(
•	Bogs. Is the wettend a peat-accumulating wettend that 1) has no	YES	ON)
	egrings in now or duriows, z) supports excepting masses, noticellarly Schooling and 3) the address in masses place 20%.	Wetland Is a Category	Go to Question 7
	cover, 4) at least one species from Table 1 is present, and 5) the	3 wedand	
	cover of invasive species (see Table 1) is <25%?	Go to Question 7	(
-	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that	YES	(ON)
	Rewing, mineral rich, ground weler with a circumneutral ph (5.5-8.0)	Wetland is a Category	Go to Question 8a
	and with one or more plant species listed in Table 1 and the cover of	3 wettend	
	Investme appeals talled in 1806 1 is <25%?	Go to Question 8a	(
3	"Old Growth Forest." Is the welland a forested welland and a the	YES	(ON)
	Corest Characterized by , but not attack by, the increming character buck.  Descriptory cannoty trace of drawl and exceeding at least 50% of a	Wetland is a Category	Go to Question Bb
	projected maximum attainable age for a species). Ittle or no evidence	3 wetland	
	of human-caused understory disturbance during the past 80 to 100 years, an all-aged structure and multilayered canopies, aggregations of	Go to Question 8b	
	canopy trees interspensed with canopy gaps, and significant numbers of already and significant numbers		
	Of BUSHOUNG USED STORES STORE TO AVAILABLE INVESTIGATION		_

K

98	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest cancov consisting of	YES	<b>9</b>
	deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17 7m) dbh?	Wetland should be evaluated for possible Category 3 status	Go to Question Se
		Go to Question 9a	(
3	Lake Frie coastal and tributary well ands. Is the welland located at	YES	(ON)
	an elevation less than 5/5 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
ą	Does the welland's hydrology result from measures designed to	YES	ON
	prevers electrical and the loss of aqueto please, i.e. the waters as partially hydrologically restricted from Lake Erie due to lakeward or landuckerid dithe an extra hydrological production.	Wetland should be available for possible	Go to Question Sc
		Category 3 status	
		Go to Question 10	
ä	Are Lake Erie water levels the wettand's primary hydrological influence, in the wettand is hydrologically upperficient for telescond or unland.	YES	9
	border attentions), or the wetland can be characterized as an	Go to Question 9d	Go to Question 10
	estuante vedand witi lake and her influences nydovyy. Trese holide sandbar deposition vedands, estuante evitands, river mouth wellands or those dominised by submersed aquatic venetation.		
2	Does the welland have a predominance of native species within its	YES	ON
	vegetation communities, afficuation non-native or disturbance tolerant	The state of the s	
	native species can also be present?	Wettend is a Category 3 wetland	Go to Chestion as
		Go to Question 10	
3	Does the welland have a predominance of non-naive or disturbance indicates near a predominance of the production communities?	YES	NO
	Secretary in the secretary	Wetlend should be	Go to Question 10
		evaluated for possible Category 3 status	
		Go to Question 10	(
10	Lake Piein Sand Preiries (Oak Openings) is the welland located in	YES	ON)
	characterized by the following description the welland has a sandy	Wedand is a Category	Go to Question 11
	substrate with interspensed organic matter, a water table often within several inchast of the surface, and often with a dominance of the	3 wedand	
	grammeous vegetation listed in Table 1 (woody species may also be	Go to Question 11	
	present, the Unio Lepterners of natural resources unrecent of Natural Areas and Presences can provide assistance in confirming this		
÷	Type of wedern and as guality Relict Wet Prairies is the wettend a relict wet prairie community	YES	
:	dominated by some or all of the species in Table 1. Extensive prairies		)
	were formerly located in the Darby Plains (Medison and Union	Wedand should be	Complete
	Counties), northwest Onio (e.g. Ehe, Huror, Lucas, Wood Counties),	Catagory 3 status	Rating
	and portions of western Unio Counties (a g. Lierke, Mercer, Merni, Montgomery, Van Wert etc.).	Complete Quantitative Retor	
		Burney	

invasive/exotic spp	fun species	Secret Dod	Dak Opening species	wet orairie species
Lythrum salicaria	Zygadows elegan war glaucus	Calle polusirs	Cares cretologue	Calabiagnostis canadensis
Myriophyllum spicetum	Cacatta plantaginea	Cares atlantica was cavillaced	Carex lassocured	Columperostic stracts
Najas manor	Carest flava	Carez echinata	Cores stricts	Canex atherodes
Phalaris anundinaces	Correx sterrilis	Cares oltensperme	Cladum mariscoides	Carex bushalestil
Phragmates australis	Carex stricts	Cares trumerand	Calamagnostis stricta	Carry nellise
Potamogeton orlepus	Deschampsia caestri tora	Chamaedanime cairculata	Colomornostis canadensis	Cares surfaciliti
Ranamentius ficants	Eleocheru nostellata	Decodon verticuliane	Ouest-us naturaria	Greentana andrenesti
Rhammus francula	Enougheruse wind confinction	Actoriograms wiresmicaell		Hellandrur States exertatus
Typha enguatiolia	Gentionopals and	Laris territing		Linke month
Typha relance	Lobelta kalmu	Nemoposithus mucrospatus		Lysimachia anadriflora
•	Pamassia yisuca	Schechzeria palustria		Lyderum alatum
	Potentilla fruncosti	Sphagenew App.		Pystanthemam virginiamum
	Rhammis almjoita	Увестини инстрои		Suphium terebimhunaceum
	Rhymchospora capillacea	<b>Увесиным солумьюмим</b>		Sorghastrum mutans
	Salix condida	Vaccinium otivoscous		Sparting pectings
	Salu myrroudes	Woodwardie Wyzmics		Solidogo riedellii
	Sala serissuma	Xpris defformula		)
	Solidago ohsoensis	3		
	Tofieldia glutanasa			
	Trigiochus maritimum			
	Production and			

End of Narrative Rating. Begin Quantitative Rating on next page.

5 0 Fleid Form Chamiftelive Rating	
Srte: South Field Energy internation Facilities Ann Gilmore/Mary Gilmore 11/242015	242015
Metric 1. Wetland Area (size).	
ric 3. Hydrology.  urea of Weer Score at the upply  ric 3. Hydrology.  Over groundwer (s)  recipied of (s)  Season intermitted suffice water (s)  Season intermitted suffice water (s)  Season intermitted suffice water (s)  Season intermitted suffice water (s)  Some of the Core and subject of the core of th	(*) Soors all that supply ((*) year footbalent (1) Behaven reheardwise and other human use (1) Part of wellend coulement (supply forest), complex (1) Part of wellend coulement (1) Part of wellend coulement (1) Part of premium of part of the (1) Part of the (1) Part of the (1) Part of the (1) Part of the (1) Part of the (1) Part of the (1) Seasonably hundred (2) Seasonably substituted (1)
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15 45 Metric 4. Habitat Alteration and Development    Metric 4. Habitat Alteration and Development	
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ORAM*

метру (мактоп	South Fleid Energy Interconnection Facilities	Ann Gilmore/Mary Gilmore	4/29/2015
Matric 5.	Metric 5. Special Wetlands.	ds.	
heck all that a	Check all that apply and score as indicated.		
٦	Am (10)		
T			
Ī	(nc) up-		
8	Old growth forest (10)		
3	ture forested wedand (5)		
ľ	On Take consequently the characters and	and the second district of the latest terms of	
T		or a second contract of the second contract o	
1	ke Erle coastal/infoutery weth	and-restricted hydrology (5)	
3	ke Plain Sand Prairies (Oak.)	Doenings) (19)	
Ī			
2	act Wet Pratries (10)		
Š	OWN OCCURRENCE State/fedgra-	President or endengared species (10)	
1	Application of references assessed to the control of the control o	A STATE OF THE PERSON NAMED IN COLUMN NAMED IN	
Ī	Andrew Armedian Comment	forth affects on control to the	
8	legory 1 Wedlend. See Quer	ition 1 Quellative Rating (-10)	
Metric 6.	. Plant commun	itles, interspersion, mic	rotopography
Vertend	Cottoffee Communities	Version of the second	
COTT BY DEBERA	of using 0 to 3 scale		Abient or composes (1) No 10 24 V series produces and
	, in the second	) 	Present and either comortises arreal cart of wedgand's vecelation and is
1		-	of moderate castify or comprises a storificant part but is of low easily
- <u>T</u>	ergent		
8	9		Present and either compress significant part of walkind's vegetation
T	1	8	and is of moderate quality or comprises a small part and is of high
<u> </u>			Agenb
MA.	diet.	•	Present and comprises significant part, or more, of wedend's
٦	an Water	n	vegetaeon and a of high quality
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D. Horizonia	Communication of the state of t	Martititue Description of Vege.	ation Quality
core only one.		1	Low app diversity and/or predominance of normative or disturbance
Ŧ	h (5)	3	tolerant native species
- N	demissiv Non (4)	рош	Netive top are dominant component of the vegetation, atthough
T			normative and/or disturbance tolerant netive app can also be present,
1	demale (3)		and species diversity moderate to moderately high, but generally we
MON	densising low (2)		presence of new, threatened, or endangered app
<u> </u>		Apir.	A predominance of netwe species, with populate and and/or
	=		disturbence interant malive and absent or victually absent, and birth
	(c) 1		spp diversity and often, but not stream, the presence of rare,
	firvestve plants. Refer to		breakined, or endengmed upp
able 1 ORAM &	brug form for lat. Add or	Mudflat and Open Water Class	Chalky
adual points for	r coverage.	ō	Absent <0 This (U.247 acres)
2	enave > 75% cover (-5)	•	Low 0.1 to <1he (0.247 to 2.47 acres)
<u>}</u>	Arrate 25-75% cover (-3)		Medicals of the office (2 47 to 0 88 connect)
Ī			(maxim co e co . e 2) maxim i militarous
<u>*</u>	INTER D-25% COMMIT (-1)		High the (9 88 acres) or more
×	nty absent <5% cover (0)	Microtopography Cover Scale	
Ī	(3)		Abend
Morolopo	4	Ī	
nesed le soc	Lump 0 to 3 scale	<del>-</del>	Present in very arnel amounts or if more common of margins' quality
0	letaied hummockehuseucks		
8	TRE WOOCH GEORGE > 15cm (Bk	N	Frankfull moorate amounts, but not of highest quality or in small emounts of highest quality
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TOTAL (	(max 100 pts)		
ore cultibration m	sport for the accerng breedpoorts	between categories at the following address: http:/	Non-state ohusedwar4014601 Anni
	Metric G Score at passe (Score	Additional of the plant Sund Public (2016)  (Add. The District Control of the Public Sund Public (2016)  (Add. The District Control of the Public Sund Public (2016)  (Add. Web Public Sund Public (2016)  (Add. Web Public Sund Public (2016)  (Add. Web Public Sunday (2016)  (Add. Web Publ	referci. Are statisficated try (10) wit Openings) (10) wit Openings) (10) wit Openings) (10) wit Openings) (10) where their liabilities or seape (10) where their liabilities or seape (10) where their liabilities or seape (10) where their liabilities or the forms with the openings of the openings of the openings of the openings of the openings of their liabilities of the between calegories or the following software. Imp.)  Sas 2 (Sin) 3  Witterbetogography Corey Scale (Sin) 4  Witterbetogography Corey Scale (Sin) 4  Witterbetogography Corey Scale (Sin) 4  Witterbetogography Corey Scale (Sin) 4  Witterbetogography Corey Scale (Sin) 4  Witterbetogography Corey Scale (Sin) 4  Witterbetogography Corey Scale (Sin) 4  Witterbetogography Corey Scale (Sin) 4  Witterbetogography Corey Scale (Sin) 4  Witterbetogography Corey Scale (Sin) 4  Witterbetogography Corey Scale (Sin) 4  Witterbetogography Corey Scale (Sin) 4  Witte

### **ORAM Summary Worksheet**

i		circle answer or	
		insert	Result
Namative Rating	Question 1 Critical Habitat	YES (NO)	ff yes, Catagory 3
	Question 2 Threatened or Endangered Species	YES (NO	If yes, Category 3
	Question 3 High Quality Natural Welland	YES (NO	If yes, Category 3
	Question 4 Significant bird habitat	Mes Mes	If yes, Category 3
	Question 5 Category 1 Wellands	YES (NO	If yes, Category 1
	Question 8 Bogs	YES (NO	If yes, Category 3
	Question 7 Fens	YES (NO	if yes, Catagory 3
	Question 8a. Old Growth Forest	YES (NO	If yes, Category 3
	Question 8b Mature Forested Wetland		If yes, evaluate for Category 3, may also be 1 or 2
	Question 9b Lake Erle Wellands - Restricted		If yes, evaluate for Category 3, may also be 1 or 2
	Question 9d Lake Ene Wetlands – Unrestricted with native plants		If yes, Category 3
	Question 9e Lake Erie Wellands - Unrestricted with invasive plants	NES (NO)	If yes, evaluate for Category 3, may also be
	Question 10 Oak Openings	VES (NO	If yes, Category 3
	- 1	YES (NO	If yes, evaluate for Category 3, may also be 1 or 2
Quantitative Rating	Metric 1 Size	0	
	Metric 2 Buffers and surrounding land use	14	
	Metric 3 Hydrology	16	
		15	
	Metric 5 Special Welland Communities	0	
	Metric 6 Plant communities, interspension, microlopography	-	
	TOTAL SCORE	46	Category based on score breakpoints 2

Complete Wetland Categorization Worksheet.

# Wetland Categorization Worksheet

of the following questions Westerd is a Name Profe to any VES anisported as a Category 3 welland to 6. f. f. de. of 10 Category 3 welland to 6. f. f. de. of 110 Category 3 welland to 6. f. f. f. de. of 110 Category 3 welland to 6. f. de. of 110 Category 3 welland to 6. f. de. of 110 Category 4 welland to 7 status 6. de. of 110 Category 1 welland 12 category 1 welland 12 category 1 categorized sea Category 1 categorized sea categorized sea Category 1 categorized sea Category 1 categorized sea Category 1 categorized sea Category 1 categorized sea Category 1 categorized sea Category 1 categorized sea Category 1 categorized sea Category 1 categorized sea Category 1 categorized sea Category 1 categorized sea Category 1 categorized sea Category 1 categorized sea Category 1 categorized sea Category 1 categorized sea Categorized sea Categorized sea Categorized sea Categorized sea Categorized sea Categorized sea Categorized sea Catego	So of the stand of	le quantitative rating score viese then the Calegory 2 according threshold cloudiding gray crop? If yee reversiants the category of the well-than confine in OAC fluid 3745-44(1) and biological and/off brackional assessments to determine if the well-and tase been over-calegoryce by the CARA in well-and tase been over-calegoryce by the CARA in well-and tase been over-calegoryce by the CARA in a state of the calegory and in the size of the calegory and in the well-and to determine the well-and cole and of the calegory 3 well-and calegory and the well-and to determine the well-and of scalegory 4 well-and beautiful the calegory 2 well-and calegory 2 according to the well-and calegory 2 well-and calegory 2 according to the seal of the calegory 2 according the calegory of the well-and 5 calegory 2 according the calegory of the well-and 5 calegory 2 according the calegory of the well-and 5 calegory 2 according the calegory of the well-and has been under a calegory of the well-and has been under a calegory of the well-and should be assigned to that calegory in all well-and should be assigned to that calegory in all well-and should be assigned to that calegory in all well-and should be assigned to the well-and to calegory the well-and should be assigned to the calegory of the calegory the second and and tankfallers according the states of the well-and to calegory the second and auth-and and tankfallers according the second of a memory the second carry or change a calegorization based on a quantifiative according the second of a second of
, e, la , 20 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	<del></del>	threathold (exicution) grays zone)? If year inversibate the category of the well-hard using the name of the category of the well-hard using the name of category of the well-hard using the name of category of the well-hard using the name of categories of the threath of categories of the well-hard using the 1) hardward categories of the well-hard using the 1) hardward soon of the well-hard using either reting above of these, it should be to allogories as a Category 3 well-hard is also come the threath of the categories as a Category 3 well-hard between the threath of the category of the well-hard is category as well-hard between the threath of the category as a category as well-hard threather threather of the category of the well-hard threather threather of the well-hard threather of the category of the well-hard threather threather of the category of the well-hard threather threather of the category of the well-hard threather threath
e 6 6 80 800 800	<del></del>	reservation countrating by a group in 1 pro- fall a 3/45-46(c) and blooplea and/or hardhous assessments to determine if the welland has been one- calegorized by the CRAM.  Featurable the welland tarry fit welland has been one- calegorized by the CRAM.  Rule 3745-1-54(C) and 20 the quantitative rations in CAF.  Rule 3745-1-54(C) and 20 the quantitative rations are of the welland tarry great in 1 prantitive orders in CAF.  Rule 3745-1-54(C) and 20 the quantitative rations accorded to welland belonging a welland classified and or farcing a second or the welland belongory 3 welland classified and a second or the welland or selectory and a control of the second or the welland or selectory as a calcular and a control or the welland or selectory as a calcular and a control or the welland or selectory or the welland selectory or the welland selectory as and or further in CAC Rule 3745-1-54(C); and Rule and the control seessaments to determine if the welland has been under calculations for the welland has been under calculations of the welland has been under calculations of the welland should be assigned to that calculation of the All 3745-1-54(C) can be used to during a calculation bessed on a quantitative order and
m & 88 806	<del></del>	Analysis of the welland upong the natural cancer in OAC Flue 3745-1-54(C) and biological and/or functional seasessements to determine if the welland has been orest- calegorized by the QPAM. Evaluate in OAC Fina 3745-1-54(C) and 21, the quentifiative criteria in OAC Fina 3745-1-54(C) and 21, the quentifiative relings soon if the welland is determined to be a Citegory 3 welland using where of been, it should be calegorized as a Citegory 2 welland. Detailed biological and/or functional assessment and qualitative rating soon greater that he Citegory 2 sooning threshold (including any great zone)? If yes, revealuse the category of the welland's category 2 sooning threshold (including any great zone)? If yes, revealuse the category of the welland's category 2 sooning threshold (including any great zone)? If yes, revealuse the category of the welland single in enautive functional assessments to determine if the welland should be sessioned to the welland school be sessioned to that category. If not it is a remarke oritisis described in OAC Rule 3745-1-54(C) can be used to carry or change a categorization besed on a quantitative soone.
·	<del></del>	What a 3/42 - 54(c) and thougheat and/or harbforms assessment to defermine if the welland has been one-disalgorated by the CGAM.  Featurab the welland turing the 1) Transtitute orders in CAC.  Paul 3745-1-54(C) and 2) the quantitative rations in CAC.  Paul 3745-1-54(C) and 2) the quantitative rations in CAC.  Paul 3745-1-54(C) and 2) the quantitative rations one if the welland being as a Catagory 3 welland being a subsequent of these. It should be categorized as a Catagory 3 welland cutted at the quantitative at elegent of the category 3 welland cutted at the quantitative at engage the greatest than 10 Catagory 3 welland the subsequent at the quantitative at engage the greatest than 10 Catagory 2 county 1 the quantitative and present that the Catagory 2 county through the caracter of the welland step greatest than 10 Catagory 1 the welland has been under category or the welland should be assigned to that catagory in all relations however. The season of carrier of county or change a catagorization beased on a quantitative acree or an equalitative acree.
à 25 25	<del>_                                    </del>	essessements to determine if he wetland has been orec- categorized by the CRAM.  Evaluate the wetland using the 1) nametive criteria in CAC.  Find 3745-6-4(c), and 2) the quantitative criteria are of the 3745-6-4(c), and 2) the quantitative reting some if the wetland is determined to be a Citagory 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed bloogical and/or functional assessment in quantitative rains 3 corn or greater that the Category 2 sooning threshold (problem) and yet a Category 2 sooning threshold (problem) are greater that the Category 2 sooning threshold (problem) are greater that the Category 2 sooning threshold (problem) are greater that the Category 2 sooning threshold (problem) are greater that the category 2 and bis objective and the peen under-categorized by the Other in the wetland a located within the according been under-categorized by the Other in the section of the wetland as located within the according the section of the wetland as located within the according to the category in all instances power the warmalive orients described in OAC Rule 3745-1-54(c) can be used to clarify or claring a categorization besed on a quantitative soon.
£	<del></del>	Evaluate the wettend using the 1) nametive criteria in OAC flut 33(25-15-6(1)) and 2) the quantitative prints occer if the wetland is observement to be a Category 3 wetland using earlier of the category 2 in the category 3 wetland between the category 2 in the category 2 wetland Detailed bloogical and/or functional assessment in equality the rainty also to greater that the Category 2 sooning threshold (problem) are greater that the Category 2 sooning threshold (problem) are greater that the Category 2 sooning threshold (problem) are greater that the Category 2 sooning threshold (problem) are greater that the Category 2 sooning threshold (problem) are greater that the Category 2 and bloogical and/or benefit and OAC Rule 3145-45(C) and belonging a proper or greater than the sooning threshold to the category in the detailed should be assigned to that category in all instances however the remarker orients described in OAC Rule 3145-1-54(C) can be used to category the distances however the remarker orients described in OAC Rule 3145-1-54(C) can be used to category category and the detail of category are subsect on a quantitative soon.
. á 88 856	<del></del>	Fig. 3745-1-54(C) and 2) the quantitative reting access if the westland is observed to be a category 3 westland category 4 westland category 4 westland category 4 westland category 4 westland category 4 westland category 4 westland category 4 westland category 4 westland category 6 westland 4 westland 6 wes
£ 25 256		the weithout in determined to be a Category 3 weithout using either of these, it should be calegorred as a Category 3 weithout be calegorred as a Category 3 weithout be because the category of the category of the category of the category of the category of the category of the weithout in the category of the weithout the Category of the weithout the category of the weithout the category of the weithout the category of the weithout the category of the weithout the category of the weithout the category of the weithout the category of the weithout the category of the weithout in the weithout has been under category of the weithout has been under category of the category in the Office of the category of the category of the category of the section of the weithout the category in that it is also can have the earthout of the category in that it is also as these we the remarks or that adeas the OAC faule 3146-15(c) can be used to categorication based on a quantitative soors.
á 88 858		auther of heave, it should be calegorated as a "Category 3" welfand. Detailed blokploal and/or functional assessment may also be used to determine the welfand's calegory a coming threshold (hockeling any gaze parts)? If yes, exercised retailed soon greater than the Calegory I show that the calegory of the welfand ball of the welfand build the natified excluding the calegory of the welfand build the harmstone functional assessments to determine if the welfand has been under cartigorized by the Opchu. If the welfand has been under cartigorized by the Opchu is a strong for a particular calegory. The welfand should be assigned to that category in welfand should be assigned to that category in all insurces however the warmalive oritisis described in OAC Rule 3745-1-54(C) can be used to death or charing a calegorization based on a quantitative soon.
88 888		wetland Delabed beloogical and/or kindroot assessments are passed belooping to the passed belooping the passed belooping the passed belooping to the passed belooping to the passed belooping the passed bel
28 256	<del></del>	may also the used to determine the welland's category is a quantitative rainty across present that the Calegory 2 county threshold (housing any grow zone)? If yes, enervalues the category of the welland bailing the narrative criteria in QAC Rais 3745-154(C) and biological and/or funder in QAC Rais 3745-154(C) and biological and/or been under-categorized by the ORAM in the according to the ORAM in the according to the ORAM in the according to the ORAM in the according to the ORAM in the according to the ORAM in the according to the ORAM in the according to the ORAM in the according to the ORAM in all instances however the remarker criteria described in OAC Rais 3745-1-54(C) can be used to clarify or change a calegorization besed on a quantitative some.
28 256		in quantitative atting soon agenter than the Calegory 2 sooning threatened including any gray zene)? If year, reveralments the category of the welland using the narrative criteria in for Calesi 3475-44(C); and chookpar and or lunchoring seesaments to determine if the welland has been under categorized by the ORAM.  The second of the welland is focased within the according the property in the welland should be assigned to that category; the welland should be assigned to that category in all relations a house. The service for a category in all relations to the welland should be assigned to that category in all relations to the category the according to the total category and all the category and all the category and all the category and all the category and the categorization beased on a quantitative according
		sooms therebody (notified are gas) zone)? If yes, everytheir in CAC Ruis 3745-1-44(C) and biscoperation in CAC Ruis 3745-1-44(C) and biscopera and/or handsome beassenwher to defermine if the welland has been under-categorized by the OSAM.  If he score of the welland is located within the sooring recyae for a service or stopport, it is welland should be sessioned in this category. It is welland should be sessioned in this category, it is welland should be sessioned to this category. It is velland a follower the nemalive critical deerched in OAC Ruis 3745-1-54(C) can be used to clarify or change is categorization based on a quantitative soore.
		revenleute the category of the western dusty the nemative retrievals in QAC Rule 3745.1-54(C) and biological and/or functional assessments to determine if the weetland has been under-categorized by the ORAM. Been under-categorized by the ORAM is smooth of the weitland is focated within the accing the pack to another category; the weitland should be assigned to that category. In all instances however, the remarker category in all instances however the he used to dearly or change is categorization based on a quantitative accie.
		critical in OAC Rules 34(24-44(C)) and blookycal and/or functional assessments to determine if the welland has been inject-categorded by the ODAM. But OACM been inject-categorded by the ODAM is the Control of the welland is located within the according range for a particular calegory, the welland should be sessioned by the category of that it hall accord browner the remarking other category of the late of the category of the session of the category of the session of category and the category of the catego
<del>-                                    </del>		In Auctional essenantes to determine if the welland has been under categorized by the GDAM.  The access of the welland is located within the scoring in the access of the welland is located within the accept in the access of the welland is located within the accept in the acceptor; the welland should be assigned to that category in all instances however the nemaline oritized searched in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative soors.
<del>                                     </del>		The accept of the working is located within the accring renge for a producer capitory; the well-and should be assigned to that category; in all instances however the nemalive critical described in OAC Rule 3745-1-54(C) can be used to carrie or clearly or change a categorization based on a quantitative score.
<del> </del>		in mypa ko a particular calegory. The verifiend should be assigned that calegory in that freatment present the example in the calegory of the freatment present the more than the calegory of the seed to calegory and the calegory and applicative based on a quantitative score.
<del>- 1</del>	5 pe	sestined to that category in all falances however the nemative critisal described in OAG Rule 3745-1-54(c) can be used to durify or change a categorization based on a quantitative score.
	5 90	namely to chief described in OAC Rule 3745-1-54(c) can be used to darify or change a categorization based on a quantitative score.
- 1		be used to darify or change a categorization based on a quantitative score.
<del>-  </del>	ng an	process to county or county is categorization bessed on a quantitative score.
T	e du	Christian and an annual and an annual and an annual an a
>		
	ON	Rater has the colon of essioning the welland to the higher
		of the two categories or to assion a category based on the
		results of a nonzecid wedand assessment method, e.g.
higher of the categories or	<b>P</b>	functional assessment, biological assessment, etc. and a
categories or	- 04	consideration of the narrative criteria in OAC rule 3745-1-
		<b>2</b> €(C).
sesigned to a		
category based on	6	
Delaled Delaled	-	
The more set of	2	
	_(	
Does the welland otherwise YES	9≥	A wettand may be undercatecorized using the method, but
exhibit moderate OR superior	)	still exhibit one or more superior functions, a S. a welland a
hydrologic OR habitat, OR Welfand was	Wetternd is	biolic communities may be decraded by human activities.
	_	but the welland may still exhibit superior hydrologic
-		functions because of its type, landscape position, size, local
3,5	_	or regional significance, etc. In this circumstance, the
	_	namative criteria in OAC Rufe 3745-1-54(C)(2) and (3) are
_	wided ORAM	controlling, and the under-categorization should be
_	_	corrected. A written justification with supporting reasons or
Case of superior handbons) by Impormation Form	E	imornation for this determination should be provided.
CHE INECTION?		

	Category 3	
Final Category	Category 2	
	Cutagory	
İ	Choose one	

End of Ohio Rapid Assessment Method for Wetlands.

### Background Information

Address 5070 Stow Road, Stow, Ohio 44224 Phore Number: 330-688-0111 e-mail address: BSlaby@EnviroScienceInc.com Name of Wetland: W-9 Vegstation Communities) PEM HGM Cleasies) Depression Location of Wetland Include map, address, north arrow, landmarks, distances, roads, etc. Please refer to site wetlands and water resources map.	
Affiliation. EnviroScience Inc. Address 5070 Stow Road, Stow, Ohio 44224 Phore Number: 330-688-0111 e-mail address. BSIably@EnviroScienceInc.com Name of Wetland: W-9 Vegetation Communit(tes) PEM HGM Cleastes) Depression Location of Wetland include map, address, north arrow, landmarks, distances, roads, etc. Please refer to site wetlands and water resources map.	
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Please refer to site wetlands and water resources map.	
Lestong or UTM Coordinate	00300
<u> </u>	2000
	West Point
	Columbiana
	Madison
Section and Subsection	
: Unit Code	#05030101
i	04/29/2015
dej	×
Ono Wedand Inventory Map	
	×
Delivestion report/map	×

-	T			
	ones, etc.			
	Sketch Include north arrow, relationship with other surface waters, vegetation zones, etc.	игсез тар.	4+12004	
ocros consto	th other surface w	Please refer to site wetlands and water resources map.	Comments, Narrative Discussion, Justification of Calegory Changes	
0 040	relationship wi	wetlands ar	slov, Justificati	
Name of Wedand W-9 Wetland Size (acres, hectares)	de north arrow,	efer to site	farrative Discus	
Name of Wetland W-9 Wetland Size (acres, hect	Sketch Inclu	Please n	Comments, h	

### Scoring Boundary Worksheet

INSTRUCTIONS. The mutal step m completing the ORAM is to identify the "scering boundaries" of the weiland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an solitated calital ments hocarde in the middle of a farm field will likely be the same as that wetland a jurisdictional boundaries in other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other isolates waters often form large configuous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the bydrologic regime of the wetland is the main criterion that should be used. Boundaries between configuous or connected wetlands should be established where the voltume, flow, or velocity of water moving through the wetland changes againforantly. Areas with a high degree of hydrologic interaction should be seved as a single wetland. In determining a wetland's scoring boundary for the wetland being rated. These problem situations include wetlands that form a parchwork on the landscape, wetlands divided by artificial boundaries like property fence, and, or national embalarments, wellands that are contiguous with a streams, lakes, or nivers, and estimation or coastal wellands. These situations are discussed below, bowever, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 4011Wellands Section if there are additional questions or a need for further clanification of the appropriate scoring boundaries of a particular welland.

	Staps in properly establishing acoring boundaries	done?	not applicable
Step 1	Identify the weldend area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify this locations where there is physical enderone that hydrology changes and homer-induced thanges including, constrictions caused by berms or these protests where the water encody or began study is a protest or the water the water workly or began study is a protect or filter, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the westlands or parts of a single wellend.	×	
Step 3	Delineate the boundary of the welland to be rated such that all areas of inferest that are configured in and within the areas where the hydrology does not change algorithming. Le areas that have a high degree of hydrologic hieraction are included within the accining boundary.	×	
Stap 4	Determine if articial boundaries, auch as property lines, state lines, roads, arbad enhabrimsts, etc., are present. These should not be used to setablish accing bounderies unless they coincide with areas where the hydrologic regime changes.	×	
Step 5	In all instances, the Rater may enlarge the minimum scoring.  boundsines discussed here to some together wellands that could be scored separationy.		×
Step 6	Consult OFAM Manual Section 5.0 for how to establish scoring boundaines for wellsands that form a paichwork on the landscape, divided by artifical boundaines, configuous to streams, lakes on rivers, or for olds classifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

#### Narrative Rating

INSTRUCTIONS. Answer each of the following questions (paestons 1, 2, 3 and 4 should be answered based on information obtained from the site visit of the literature and by submitting a 1 bata Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Squee Court, Ruldings F-1, Columbus, Ohio 45224, 614-265-51965 (fax), http://www.dur.slate.ohi.us/dings F-1, Columbus, Ohio 45224, 614-265-51965 (fax), http://www.dur.slate.ohi.us/dings F-1, Columbus, Ohio 4524, 614-265-51966 (fax), http://www.dur.slate.ohi.us/dings F-1, Columbus of these wetland types. Note "Crincal habitat" is legally defined un the Endangered Species Act and is the geographic area containing physical or biological features easential to the conservation of a listed spaces or as an area than may require management considerations or protection. The Rater abould contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database

# -	Question Critical Nabitat. Is the welland in a lownship, section, or subsaction of a United States Geological Stowey 7 S minute Quadrengle that has been designated by the Us Fish and Widdle Service as "critical habitat" for any threshened or endangered plant or animal species? Note, se of Jenuary 1, 2001, of the feedershy listed endangered or	Curche and YES	(P)
- ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	tical Rabitat. Is the welland in a township, section, or subsection of hield States Geological Survey 7 & minite Chapterage that has no designated by the U.S. Fath and Widlies Service as "chical Main for any breathened or endangered plant or animal species?" his as of January 1, 2001, of the federally listed entangered or	YES	INO
**************************************	an designated by the U.S. Fish and Wildlife Sarvice as "critical Mar for any threstened or endengened plant or enimal species? Its as of January 1, 2001, of the federally listed endengened or	_	<u>)</u>
2 4 2 2 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5	that the say unsurend or entering over plant or entire species.  Its as of January 1, 2001, of the federaly lated or enteringered or	Wettend should be	Go to Question 2
2 2 2 2 2		Category 3 status	
5 E # #	us existed a policies which can be counted in Orixo, the inclinate beings and the bidge prover has called a being a being prover the first settled better a section for ED 44440 into 2000.	Go to Question 2	
Ě	The state of Endangered Species. Is the welland known to contain	YES	(OV)
	an instruction by, or occurrention occur remove at record as to exist the state of	Wetland is a Category	Go to Question 3
		Go to Question 3	(
<u>د</u> م	Documented High Quality Wetland. Is the wetland on record in Natural Lecture Perspace to a both control and and	YES	<u></u>
	Transman function to the contract of the contr	Wetland is a Category 3 wetland	Go to Question 4
		Go to Question 4	(
ols +	Significant Breeding or Concentration Area. Dose the welland	YES	(on)
3 1	contain occurrence reportery againment treeding or managemy waterfowl, neotropical songbird, or shorebird concentration areas?	Wetland is a Category	Go to Question 5
	Cotemps ( West style   10 West sand one than the file harderes (1 month)	Go to Question 5	On Contract of the Contract of
_	in size and hydrologically isolated and either 1) comprised of	3	) (C
<b>9</b>	vegetation that is dominated (greater than eighty per cent great cover)	Wetland is a Category	Go to Question 8
និស	by making armonymental, by main saverage of mined lands that has little or	N. STORE L	
7	no vegetation?	Go to Question 8	
0	Bogs. Is the welland a pest-eccumulating welland that 1) has no	YES	<b>2</b>
8	eginicals micros in Guidose, 2) supporte accidoses para intereses, perfectants Scheduler and 13) the acidocytic mosses have 230%	Wetland is a Catagory	Go to Question 7
8	cover, 4) at least one species from Table 1 is present, and 5) the	3 wetland	
8	COVER OF INVESTIVE SUPERIOR (SEE SECRET) IS ACCOME.	Go to Question 7	(
<u>.</u>	Fens. Is the wellend a carton accumulating (peet, muck) welland that	YES	ON)
2	flowing mineral rich, ground water with a circumneutral ph (5.5-9.0)	Wetland is a Category	Go to Question Sa
\$	and with one or more plant species listed in Table 1 and the cover of	3 welland	
<u> </u>	Trysone species select in 1808 1 is <25%?	Go to Question Ba	_(
<u>.</u>	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	(ON)
.≨ 8	forest characterized by, but not limited to, the following characteristics	Welland is a Catagoric	)
8	projected maximum attainable age for a species); little or no evidence	3 wetland.	O I COMPANY
5 5	of human-caused understory disturbance during the past 50 to 100 years, an all-aced structure and multilavered canopies, accepations of	Go to Question 8b	
8 6	Cancry trees interspersed with cancry gaps, and significant numbers of standing dear states and downed loss?		

S

			(
8	Mature forested wetlands, is the wetland a forested wetland with 50% or more of the cover of unow forest cancer consisting of	YES	
	deciduous trees with large diameters at breast height (dich), generally diameters greater than 45cm (17 Tin) dich?	Wetland should be evaluated for possible Calegory 3 status.	Go to Question 9s
		Go to Question 9a	(
ä	Lake Erie coastal and tributary wettends. Is the welland located at	YES	(N
	an elevation rest than 3/3 rest on the USCS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	Ge to Question 36	Go to Cuestion 10
2	Does the wetland's hydrology result from measures designed to	YES	ON
	partially hydrologically restricted from Lake Ene due to lakeward or	Wetland should be	Go to Question 9c
	landward dives or other hydrotogical controls?	evaluated for possible Category 3 status	
		Go to Question 10	
æ	Are Lake Erie water levels the wetland's primary hydrological influence.	YES	O <sub>2</sub>
	border attentions), or the wetland can be characterized as an	Go to Question 9d	Go to Question 10
	"estuarine" wettend with take and river influenced hydrology. These include sandbar deceation wettends, estuarine wettands, river mouth		
ı	wellands, or those dominated by submersed equatic vegetation.		i
3	Does the welland have a predominance of native species within its	YES	ON .
	vegelation constitutions, although non-native or disturbance tolerant native energies can also be present?	Wetland is a Cateonry	Go to Ouesdon Se
		3 wettand	
		Go to Question 10	
3	Does the wetland have a predominance of non-native or disturbance shows a new restriction exercises?	YES	ON.
		Wettend should be	Go to Question 10
		evaluated for possible Calegory 3 status	
	     	Go to Question 10	(
₽	Lake Plain Sand Prairies (Oak Openings) is the welland located in	sak	ON)
	characterized by the following description. the welfand has a sandy	Wedand is a Catagory	Go to Question 11
	substrate with interspersed organic matter, a weter table often within several inclusion of the surface, and often with a dominance of the	3 wedand	
	grammacus vegetation listed in Table 1 (woody species may also be	Go to Question 11	
	present) The Chio Department of Natural Resources Division of Natural Apprecase and Beneating the presidence for the president of the presidence and president for the presidence and president for the presidence and president for the president for		
ļ	type of wedand and its quality		
÷	Relict Wet Prairies is the wedend a relict wet prairie community	, sax	ON)
	were formedy increased in the Darby Plains (Mediano and Union	Wetland should be	Complete
	Counties), Sandusky Plains (Myandot, Crawford, and Marion	evaluated for possible	Quantitative
	Counties), northwest Ohio (e.g. Erle, Huron, Luces Wood Counties), and notions of weeten Ohio Counties (e.g. Darte, Money Marri	Celegory 3 status	Rating
	Montgomery, Van Wert etc.).	Complete Quentitative	
		Kaling	

Invasive/exotic spp	fen species	pod sbecies	<b>Bak Opening species</b>	wet prairie species
Lytierum solicorus	Zygodenus elegans var glaucus	Calla palustra	Carex cryptolepus	Calamagrostis canadensis
Myrtophylhom spycatum	Cacalia plantagmea	Carex atlantica var capillaces	Carex lanocarpa	Calamograstis stricts
Najas minor	Carex flava	Cares echunata	Canes atricts	Carex atherodes
Phalary armánocea	Cares sterills	Carex obgosperma	Cladium maris coldes	Carer burbaunst
Phrasmies australis	Carex stricts	Cares trienerma	Calamagnostis stricta	Carex pellita
Рофинодекон стария	Deschampta caerpinsa	Chamaedaphne cairculata	Calamagnostu canadensis	Carex sartwells
Rammenhas Rearia	Eleocharts rostellatz	Decodon verticiliatus	Owercus palustris	Gentlana andrewai
Rhammus frangula	Eriophorum wiridicarinatum	Eriophorum virginicum		Hellandus grosseseratus
Pypha angustifolia	Gentianopsis sop.	Lant lariana		Lietris spiceta
Typha zglawca	Lobelia kulmii	Nemoponthus mucronatus		Lysimachta quadriflora
i	Paraassa glauca	Schechaeria palustria		Lythrum alatton
	Potentille frankcom	Subapram app.		Personthermon virginiamus
	Rhammes almfolia	<b>Уассініня мастосатрок</b>		Supham terebinthinocean
	Rhynchesport capillaces	<b>Уассіліза</b> согитаровит		Sorghantron metan
	Saltx condute	<b>Уассіліня</b> агуооссов		Spartma pertinate
	Sala myrrovdes	Woodwardsa virginica		Solidage riddellil
	Sales sertsama	Xyrts difformis		
	Solidaro omoensis			
	Tofieldia giutinosa			
	Triglochus martinium			
	Transchin polustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

### ORAM Summary Worksheet

	Result	If yes, Category 3	If yes, Category 3	If yes, Category 3	if yes, Category 3	If yes, Category 1	If yes, Category 3	if yes, Category 3	If yes, Calagory 3.	if yes, evaluate for Category 3, may also be 1 or 2	If yes, evaluate for Category 3, may also be 1 or 2	If yes, Category 3	If yes, evaluate for Category 3, may also be 1 or 2	If yes, Catagory 3	If yes, evaluate for Category 3, may also be 1 or 2							Category based on score breakpoints 2
circle	insert	YES (NO	YES (NO	YES (NO)	YES MO	YES (NO	YES (NO	YES (NO	YES (NO)	VES (VO	YES (NO	-		YES (NO	YES (NO)	0	11	21	13	0	1	97
		Question 1 Critical Habitat	Question 2 Threatened or Endangered Species	Question 3 High Quality Natural Welland	Question 4 Significant bird habitat	Question 5 Category 1 Wetlands	Question 6 Bogs	Question 7 Fens	Question 8a. Old Growth Forest	Question 8b. Mature Forested Wetland	Question 9b Lake Ene Wedands - Restricted	Question 9d Lake Ene Wetlands – Unrestricted with native plants	Question 9e Lake Ene Wetlands - Unrestricted with invasive plants	Question 10. Oak Openings	Question 11. Relict Wet Praines	Metric 1 Size	Meinc 2 Buffers and surrounding land use	Meiric 3 Hydrology	Metric 4 Habitat	Metric 5 Special Wedand Communities	Metric 6 Plant communities, Interspersion, microtopography	TOTAL SCORE
		Namative Rating														Quantitative Ratino	•					

Complete Wedand Categorization Worksheet.

# Wetland Categorization Worksheet

	ero entre		Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any	YES	NO.	is outstillative ratios again (see than the Category 2 account
of the following duestions			Proschold fevolution may area? If we may also the
	Wefand is	)	estances of the welland using the partition extension OAC
Namative Rating Nos. 2.3	Cathococized as a		Rule 3745-1-54(C) and highwigst angles investment
4, 6, 7, 8a, 9d, 10	Category 3 wedand		assessments to determine if the wettend has been over-
Old vou answer "Yes" to any	YES	(§	Evaluate the seatend using the 11 negration and and in Old C
of the following questions.	!	)	Rule 3745-1-54(C) and 2) the quantitative rating score. If
	Wetand should be		the welland is determined to be a Category 3 welland using
Nerrative Rating Nos. 1, 8b,	evaluated for		either of these, it should be categorized as a Category 3
90, 9e, 11	possible Category		wetland. Detailed blological and/or functional assessments
2	3 status		may also be used to determine the wetend's category
On you shower test to	153	<u> </u>	is quantistive rating score greater than the Cetegory 2 expring threshold (includion any gray zone)? If we,
Narrative Rating No. 5	Wetand is		reveluate the category of the wetland using the narrative
Ì	categorized as a		criteria in OAC Rule 3745-1-54(C) and biological and/or
	Category 1 wetland		functional assessments to determine if the wedand has
Does the quantitative score	(YES)	QV.	If the score of the wetland is located within the scoring
fall within the acoring range	)		range for a particular category, the wetland should be
of a Category 1, 2, or 3	Wetand is		assigned to that category. In all Instances however, the
wetland?	edigned to the		namative criteria described in OAC Rule 3745-1-54(C) can
	appropriate		be used to clerify or change a categorization based on a
	category based on		quantitative score
Poses the mineral letter accord	Une BOOKING THROO		
(all with the "pray zone" for	2	)	of the two categories or to session a category beand on the
Category 1 or 2 or Category	Wetland is		results of a noneoid welland assessment method, a o
2 or 3 wedands?	sesioned to the		functional management, biological semestrant, etc. and a
	higher of the two		consideration of the narrative criteria in CAC rule 3745-1-
	Categories or		54(C).
	assigned to a		
	calegory based on		
	detailed		
	assessments and		
	criteria	(	
Does the welfand otherwise	YES	NO)	A welland may be undercategorized using this method, but
exhibit moderate OR superior		)	still exhibit one or more superior functions, e.g. a wetland's
hydrologic OR habitat, OR	Wedend was	Wednerd is	biotic communities may be degraded by human activities,
recreetional functions AND	undercategorized	assigned to	but the wettend may still exhibit superior hydrologic
the wettend was not	by this method A	calegory as	functions because of its type, landscape position, size, local
Categorized as a Category 2	written justification	Delimined	or regional significance, etc. In this circumstance, the
Wednesda functional or a	nor recattegorization	6 A	namente citéme en character (2) and (3) and (3) and (4) and (5
Calegory 3 wedland for the	on Backomund		controlling, and the choose categorization and be
case of superior functions) by	Information Form		information for this determination should be provided.
this method?			

	Category 3
al Category	Category 2
틴	Category 1
	Choose one

End of Ohio Rapid Assessment Method for Wetlands.

### **Background Information**

Neme. Brian Slaby	
Data 04/29/2015	
Affiliation EnviroScience Inc.	
Address 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
e-mail address BStaby@EnviroScienceInc com	
Name of Wetland: W-10, W-11	
Vegerlation Continualities). PFO	
HGM Clear(es). Depression	
Location of Westand. Include map, address, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
	-
Lattong or UTM Coordinate 40 648807, -80 719299, 40 648657,	-80.718814
USGS Quad Name	West Point
County	Columbiana
Township	Madison
Section and Subsection	
Hydrologic Unit Code	#05030101
Site Viet	04/29/2015
National Welfand Inventory Map	×
Ohio Welland Inventory Map	!
Soli Survey	×
Delineation report/map	×

W-10, W-11		
Wetland Size (acres, hectares) Total 0 610 acres onsite		
Steech include north arrow, relationship with other surface waters, vegetation zones, Please refer to site wetlands and water resources map.	<b>.</b>	
W-10: 0 101 acres onsite W-11. 0 510 acres onsite		
Possessie Handle Describe Landbridge Control		
Comments, rairance Discussings, Justinication of Campon		
Final score: 47.5	Category: 2	

### Scoring Boundary Worksheet

INSTRUCTIONS The minal step in completing the ORAM is to identify the "scoring boundaries" of the wedland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "junisdictional boundaries." For example, the scoring boundary of an isolated catian instails becard in the middle of a farm field will likely be the same as that welland's jurisdictional boundaries. In other inspances, however, the scoring boundary will not be as easily determined. Weltands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous completes of weltand and upland. In separating weltands for accring purposes, the hydrologic regime of the weltand is the main criterion that should be used. Boundaries between contiguous or connected weltands should be established where the volume, flow, or velocity of waster moving through the weltand changes aganficantly. Areas with a high degree of hydrologic interaction should be accred as a single weltand. In determining a weltand's storing boundaries, use the guidelines in the ORAM Mannal Section's of the ordination section is of a single at the extension mastroes, it may be difficult to establish the accoung boundary for the weltand being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands davided by artificial boundaries in the property fence, and, or rationed embalishment, wellands that are contiguous with stream, and estuarine or coastal wellands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Weltands Section if there are additional questions or a need for further clanification of the appropriate scoring boundaries of a particular welland.

*	Steps in properly establishing ecoring boundaries	done?	not applicable
Step 1	Identify the weltand area of sharest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the locations where there is physical evidence that hydrology changes and adult of the changes including constrictions caused by berms or these profits where the wide reports are the first points where the wide voicily changes reportly all parties or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the welfants or parts of a single welfant.	×	
Step 3	Delinears the boundary of the wellsend to be rised autor; that ell areas of inferest large are configured to and within the areas where the hydrology does not change significantly. Le areas that have a high degree of hydrologic hieraction are included within the accring boundary.	×	
Step 4	Determine if anticlal boundaries, such as properly lines, state lines, roads, stated enhandrants, sic., are present. These should not be used to establish according boundaries unless they coincide with areas where the hydrologic regime changes.	×	
Step 5	In all instances, the Rater may enlarge the minimum accurage boundaries discussed here to acces together wellands that could be acced separately		×
Step 6	Consult ORAM Manual Section 5 0 for how to establish scoring boundaries for without being betterwish on the landscape, divided by artificial boundaries, configuous to streams, lakes or fiven, or for duel clessifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

8

#### Narrative Rating

INSTRUCTIONS Answer each of the following questions (Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit of the liberature and by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Acras and Preserves, Natural Heritage Data Services, 1889 Fouristan Square Court, Building 7-1, Columbus, Ohio 43224, 614-265-4613 (phone), 614-265-3096 (fax), http://www.dur.aslite.ohias/dage. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these welland types. Note "Critical habital" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should comact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether entited habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wedand is listed in the appropriate State of Ohio database

*	Question	Circle one	
-	Critical Habitat. Is the weitand in a township, section, or subsection of a United States Geological Survey 7.5 minute. Quadrande that has	YES	ON)
	been designated by the U.S. Fish and Widtife Service as "critical habitist" for any threatened or endangered plant or animal species?	Wettand should be evaluated for possible	Go to Question 2
	Note as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has	Calegory 3 status	
	had critical habitat designated (50 CFR 17 85(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000)	Go to Question 2	(
7	Threatened or Endurgened Species. Is the welland known to content an individual of, or documented occurrences of federal or state-listed	YES	(N)
	threelened or endangered plant or animal species?	Wetland is a Category 3 wetland.	Go to Question 3
		Go to Question 3	(
473	Documented High Quality Wetland. Is the wetland on record in Natural Hartran Database, so a both relative unitary?	YES	(ON)
	ruspos fuent the sessonmen planter surren	Wetland is a Category 3 wetland	Go to Question 4
		Go to Constion 4	(
+	Significant Breeding or Concentration Area. Does the wetland	YES	(ON)
	contain documented regionally argmiticant breading or nonbreading weterfowl, neotropical songbird, or shorebird concentration areas?	Wedand is a Category	Go to Question 5
		3 wedand	
		Go to Question 5	
峭	Cabegory 1 Wethands 1s the welland less than 0.5 hoctares (1 acre) in size and hydrologically isolated and either 1) comprised of	YES	ON)
	vegetation that is dominated (greater than eighty per cent areal cover)	Wetland is a Category	Go to Question 6
	2) an existic pond created or excavated on mined lands that has little or		
	no vegetation?	Go to Question 8	
•	Bogs. Is the welland a peal-accumulating wetland that 1) has no significant (nillows or outflows. 2) supports addoorlife mosses.	YES	<u></u>
	perdoularly Sphagmum spp., 3) the ecidophilic mosses have >30%	Welland is a Category	Go to Question 7
	cover, 4) at least one species from Table 1 is present, and 5) the cover of investive species (see Table 1) is <25%?	3 weband	
		Go to Question 7	
7	<ul> <li>Fens. Is the welland a carbon accumulating (peat, muck) welland that its saturated during most of the wear, primarily by a discharge of free.</li> </ul>	YES	(NO
	flowing, mineral rich, ground water with a circumneutral ph (55-90)	Wetland is a Calagory	Go to Question 8s
	and with one or more plant species listed in Table 1 and the cover of bruses a species letted in Table 1 to 2008.	3 welland	
	HI WOOTH SPOOLED BOLDS HI SAME IN TALL IS	Go to Question Ba	
8	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	(ON)
	overstory candoy trees of great age (exceeding at least 50% of a	Wetland is a Catagory	Go to Question 85
	projected maximum attainable age for a species) little or no avidence	3 wetland	
	years, an all-aged structure and multilayered canoples, aggregations of	Go to Question 8b	
	candry trees interspersed with candry gaps, and significant numbers of standing deed snags and downed logs?		

48	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of	YES	<b>9</b>
	deciduous trees with large diameters at breast height (dzh), generally diameters greater than 45cm (17 7m) dbh?	Wettend should be evaluated for possible Category 3 status.	Go to Question Sa
		Go to Question Ba	_(
ä	Lake Erle coastal and tributary wetlands is the wetland located at	YES	(ON)
	elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
g	Does the weitand's hydrology result from measures designed to	YES	ON.
	partially hydrologically restricted from Lake Erle due to lakeward or	Wetland should be	Go to Question 9c
	Technology of cures right outgoing control	Category 3 status	
		Go to Question 10	
×	Are Lake Erie water tevels the wedand's primary hydrological influence.	YES	NO.
	border alforations), or the western can be characterized as an	Go to Question 9d	Go to Question 10
-	source are required to the second injury of the mouth include sendant and an extension welfands, estuaine welfands, river mouth welfands, of those doministed by subnersed source conceits.		
ヌ	Does the wetland have a predominance of native apecies within its	YES	ON
	vegetation communities, although non-native or disturbance tolerant		
	nalive species can also be present?	Wetland is a Calagory 3 wetland	Go to Question Se
	!	Go to Question 10	
2	Does the welland have a predominance of non-native or disturbance interest native count coacies within its semisistan communities?	YES	NO
	I DOWN THE THE PROPERTY OF THE	Wedand should be	Go to Question 10
		evaluated for possible Category 3 status	
		Go to Question 10	(
5	Lake Pisin Sand Prairies (Oak Openings) is the waltend located in Lake Fulling Many or Wood Counting the waltend has	YES	ON
	characterized by the following description: the wettend has a sandy	Wetland is a Category	Go to Question 11
	BUDGITATION WITH INTERPORTED OUTSING MERICAL SINGUE LEDIS OF SMITH BUDGITATION OF THE SUFFICE SINGUE	3 wetland	
	gramineous vegetation listed in Table 1 (woody species may also be	Go to Question 11	
	Natural Areas and Preserves can provide assistance in confirming this		
F	Relict Wet Prairies. Is the welland a relict wet prairie community	YES	( <u>N</u>
	dominated by some or all of the species in Table 1. Extensive prairies		<u>.</u>
	were formerly located in the Darby Plaths (Madison and Union Counties), Sandraky Plaths (Wyandot, Chawford, and Marion	Wedend should be evaluated for possible	Complete
	Countee), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Countee), and northons of anneaten Ohio Countee (e.g. Darine Manner Milant	Catagory 3 status	Reting
	Montgomery, Van Wert etc.)	Complete Quantitative Rating	
ļ			

Table 1 Churactaristic plant apacies

Investivation college procession of the species of the spe

End of Narrative Rating. Begin Quantitative Rating on next page.

	4/30/2015	ado. (3)	(0) year toodbain (1) belveen travertike en drifter human uae (1) berd of wallandshipsind (e.g. forwal), complex (1) Perd of wallandshipsind (e.g. forwal), complex (1) Perd of speries or upland conflox (1) Perd of speries or upland conflox (1) Perd of speries or upland dominion (1) Scare or are did show. Scare to permanently hundesdytakmised (4) Pergdany inundssed traversed (3) Scaronally bundssed (2) Scaronally submitted (1)	Doint source (constantedor) Metrogradus reachedites track devicing		ahridiseping removel herbocoushigasic bed removel sedimentalion deviging removi
W-10 & W-11	Rater(s). B. Slaby	Metric 1. Wetland Area (size).  Select one size class and session score.  2 size 450 area (10 to 20 20 a) (5 ps)  10 to 25 area (10 to 20 20 a) (5 ps)  2 10 to 40 area (10 to 20 20 a) (5 ps)  2 10 to 40 area (10 to 10 a) (2 ps)  2 10 to 40 area (10 to 10 a) (2 ps)  2 10 to 40 area (10 to 10 a) (2 ps)  3 to 40 area (10 to 10 a) (2 ps)  4 10 area (10 to 10 a) (2 ps)  4 10 area (10 to 10 a) (2 ps)  5 to 40 a area (10 to 10 a) (2 ps)  4 10 area (10 to 10 a) (2 ps)  5 to 40 area (10 to 10 a) (2 ps)  4 10 area (10 to 10 a) (2 ps)  5 to 40 area (10 to 10 a) (2 ps)  4 10 area (10 to 10 a) (2 ps)  5 to 40 area (10 to 10 a) (2 ps)  6 to 10 area (10 to 10 a) (2 ps)  6 to 10 area (10 to 10 a) (2 ps)  7 10 area (10 to 10 a) (2 ps)  8 2 connect by a source of orea to 10 area (10 to 10 a)  8 2 connect by a source of orea to 10 area (10 to 10 a)  8 2 connect by a source of a area (10 to 10 a)  8 2 connect by a source of a area (10 to 10 a)  8 2 connect by a source of a area (10 to 10 a)  8 2 connect by a source of a area (10 to 10 a)  8 2 connect by a source of a area (10 to 10 a)  8 2 connect by a source of a area (10 to 10 a)  8 2 connect by a source of a area (10 to 10 a)  8 2 connect by a source of a area (10 to 10 a)  8 2 connect by a source of a area (10 to 10	weer (3) 70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	Check at Saharances observed the the the the the the the the the the	Metric 4. Habitat Alteration and Development.  4. Substant distributes. Some one of dutile their and evenge  1. Recovered (2)  1. Recovering (2)  1. Recovering (3)  1. Recovering (4)  1. Recovering (5)  1. Recovering (6)  1. Recovering (7)  1. Recovering (8)  1. Recovering (9)	Class, all distributions Oceanors  mounts  mounts  A characteristing  X characteristing  X characteristing  X characteristing  X characteristing  X characteristing  X characteristing  X characteristing  X characteristing
ORAM v. 8.0 Fleid Form Quantitative Reting	Srte: South Field Energy Interconnection Facilities	Metric 1. Wetland Area (size).  2 2 Metric 1. Wetland Area (size).  2	9	Note to tros apparent (12)   Recovering (3)   Recovering (3)   Recovering (4)	13 42.5 Metric 4. Habitat Alteration and Deve max 20 pt. account 4. Eubers describers. Sons one of double check and everge and form of the control of the co	Above or none apparent (9)  Recovered (9)  Recovered (1)  Recovering (1)  Recovering or or nacovery (1)

Stating Rating
d Form Change
My 5.0 Field
8

ORAMy 5.0 Field Form Ca		Supp	W-10 & W-11	
Site: South Fleid Energy Interconnection Facilities	Energy John	arconnection Facilities	Rater(s) B Slaby	4/30/2015
<u>:</u>				
42.5				
Subfold first page				
72.5	Metric	Metric 5. Special Wetlands	nds	
144.5	) and	Chart of the start and sware as independent		
			4	
		(nil fina		
		(DL) <b>6</b>		
		Old growth format (10)		
		Mature forested wetland (5)		
		Lake Erle coastal/bibutery wet	ake Erle countai/bibutery wetland -unrestricted hydrology (10)	
		into Erle man and Christian under the state of the Free Christian Company (5)	hand consistent of freeholers (5)	
	L		(c) (6-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
		Lake Plant Sand Plante (Oak Operings) (10)	(nu) (aguinach	
		Relict Well Provides (10)		
	l	Known occurrence state/feder	Known popurence state/federal finantened or endangered species (10)	
		Storiffcent minratory sonobins	Storifficent minneror ecochin/heater food hebited or cases (10)	
		Celeptory 1 Wetland, See Cu.	Celepory 1 Wedland, See Question 1 Questialities Rading (-10)	
⊢	10-4-54		Matter & Blanch and an amount in formation in formation and in formation in formation and in the second in the sec	
5 47.5		o. Flant commu	icies, iliteraperaion, mic	rotopograpny.
Michael Styles	Score at pr	te, western vegestion Communities. Score all present using 0 to 3 scale	vegamoon continues cov	Vegata con Contributy Cover active  D   Moseff or compisee <0 1 ha (0.247) acres  contribute anse
		Annual o hers		Present and either comprises arreit part of welland a vegetation and is
	,		•	of moderate quality, or comprises a algorificant part but is of low quality
		- Chargent		
	-	draft.	•	Present and either comprises algorificant part of wedend's vegetation and is of mydenia challes or comprises a small hard and had both
	2	Forest	•	quality
				Present and comprises significant part, or more, of wedand's
			•	regatation and it of high quality
		all of		
- <del>-</del>	6b, Horizonia	Sb. Horizontal (plen view) Interrependen.	Narrative Description of Vegetation Quelity	dation Quelity
-		· ·	a co	Low app diversity and/or predominance of nonrelive or disturbance interests makes a neclear
<del></del>	1	H-04 (5)		
		Moderately high (4)	рош	Native applies dominant component of the vegetation, attrough normalise and or details the second sector and on the second sector.
		Moderate (3)		and species diversity moderate to moderately high, but generally with
		Moderately low (2)		presence of rare, Brrestened, or endangered app
	-		rou v	A predominence of native species with nometive upp and/or
-	1	(1) I		disturbance tolerant neithe epp absent or virtuely absent, and high
	Sc. Covera	None (U)  Coverage of Investve plants. Parler to		app diversity and offen, but not always, the presence of rare, threshoned or andenominal and
•	Table 1 OR	able 1 ORAM long form for fielt. Add or	Mudflat and Open Wazer Class Quality	6 Quality
- 1	deduct poin	declared points for coverage.	0	Absent <0 Ths (0 247 écres)
		Extensive >75% power (-6)	-	Low 0.1 to <1ha (0.247 to 2.47 acres)
	ກ	Moderate 25-75% cover (-3)	2	Moderate 1 to -cAhe (2.47 to 9 88 ecres)
	l	Sparme 5-25% cover (-1)		Mich Ale (3 88 scores) or more
•	١			
		Nearly absent <5% cover (0)	Microtopography Cover Scale	
		Atsent (1)	0	Absent
- <b></b>	6d. Microtopography Score all present use	3d. Microlopography Score all present using 0 to 3 scale	-	Present in very amail amounts or if more common of marginal quality
		Vegetated humanucke/luseucks		Consent of the Consen
	1	Comme woody debris >15cm (Sin)		emounts of highest quelity
	1	Standing dead >25cm (10th) dbh	to to	
		Amphibien breeding pools	•	Present in moderate or greater amounts and of highest quality

47.5 GRAND TOTAL (max 100 pts)
Heler is the most read colour good confirming more for the society breappers between calcoparts at the following added

### **ORAM Summary Worksheet**

. .

	1	Yesa	if yes, Category 3	If yes, Calagory 3	If yes, Category 3	If yes, Category 3	If yes, Category 1	If yes, Category 3	If yes, Category 3	If yes, Category 3	if yes, evaluate for Category 3, may also be 1 or 2	If yes, evaluate for Category 3, may also be 1 or 2	If yes, Category 3	If yes, evaluate for Category 3, may also be 1 or 2	If yes, Category 3	If yes, evaluate for Category 3, may also be 1 or 2		,				-	Category based on score breakpoints 2
circie	in the second	SCORE	YES (NO)	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO)	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	2	8	19.5	13	0	2	47 5
			Question 1 Critical Habitat	Question 2. Threatened or Endangered Species	Question 3 High Quelity Natural Wetland	Question 4 Significant bird habitat	Question 5 Category 1 Wetlands	Question 6 Bogs	Question 7. Fens	Question 8a. Old Growth Forest	Question 8b Mature Forested Wetland	Question 9b Lake Ene Wetlands - Restricted	Question 9d Lake Erie Wetlands – Unrestricted with native plants	Question 9e Lake Erie Wetlands - Urrestricted with invasive plants	Question 10 Oak Openings	Question 11 Relict Wet Prairies	Metric 1. Size	Metric 2 Buffers and surrounding land use	Metric 3 Hydrology	Metric 4 Habitat	Metric 5 Special Wetland Communities	Metric 6 Plant communities, interspersion, microtopography	TOTAL SCORE
i			Namative Rating														Quantitative Reting						į

Complete Wetland Categorization Worksheet.

# Wetland Categorization Worksheet

Did you answer "Yea" to any of the following questions.			
of the following questions.	ÆS	NO.	is quantitative rating score less than the Calegory 2 scoring
		)	threshold (excluding oney zone)? If was neevaluate the
	Welland Is		category of the wetland using the narrative critishs in OAC
Nametive Rating Nos 2, 3,	celegorized se a		Rule 3745-1-54(C) and biological and/or functional
4, 6, 7, 8a, 9d, 10	Catagory 3 wetland	_ (	assessments to determine if the wetland has been over- celeconized by the ORAM
Did you answer "Yes" to any	YES	ON	Evaluate the wettand using the 1) negative college in DAC
of the following questions		)	Rule 3745-1-54(C) and 2) the quantitative rating score. If
	Welland should be		the wetland is determined to be a Category 3 wetland using
Namative Rating Nos. 1, 8b,	evaluated for		either of these, it should be categorized as a Category 3
St. Se. 11	possible Category		wetland Detailed biological and/or functional assessments
	3 status		may also be used to determine the wetland's category
Did you answer "Yes" to	YES	<u>?</u> )	is quantitative rating score greater than the Category 2
Nametive Ration Mo. 5	Wellerd le	)	monthly treatment (statement) Buy Stay 2018) / 11 yes,
•	citedorized as a		collects in CAC Rule 3245-1-54/C) and historical souths
	Category 1 wetland		functional assessments to determine if the welfand has
			been under-categorized by the ORAM
Dose the quantitalive score	(TES)	2	If the score of the welland is located within the scoring
fall within the scoring range	)		range for a particular category, the wetland should be
of a Category 1, 2, or 3	Welland is		essigned to that category. In all instances however, the
wettend?	estaigmed to the		nametive criteria described in OAC Rule 3745-1-54(C) can
	appropriate		be used to clarify or change a categorization based on a
	category based on		quantitative score
Does the cuantitative score	VES.	(§	Britas has the problem of manipulation the constant of the bighter
fall with the bray zone for	1	)	of the han cultanoties of president a cultanot between the
Category 1 or 2 or Category	Welland is		Details of a normalist welfand assessment method a o
2 or 3 wettands?	assigned to the		functional secasament Notocical secasament at and a
	higher of the twn		consideration of the partition or finds in O&C pile 3725-1.
	Categories or		54(C)
	assigned to a		
	category based on		
	detailed		
	BSSettiments and		
	criteria	_	
Does the wetland otherwise	YES	2	A welland may be undernalegorized using the method but
exhibit moderate OR superior		)	still exhibit one or more superior functions, a greatering
hydrologic OR habitat, OR	Welland was	Wedandia	biotic communities may be decraded by human activities.
recreational functions AND	undercalegorized	of becala	but the wetland may still exhibit superior hydrologic
the welland was not	by this method A	category es	functions because of its type, landscape position, size, local
categorized es a Category 2	written justification	determined	or regional significance, etc. In this circumstance, the
wetland (in the case of	for recetegorization	by the	nemative criteria in OAC Rule 3745-1-54(C)(2) and (3) are
moderate functions) or a	should be provided	ORAM	controlling, and the under-categorization should be
Category 3 wetland (in the	on Background		corrected. A written justification with supporting reasons or
case of superior functions) by	Information Form		information for this determination should be provided.
this method?			

	Category 3
Final Category	Category 2
	Category 1
	Choose one

End of Ohio Rapid Assessment Method for Wetlands.

### Background Information

Name Laura Sayre	
Date 04/30/2015	
Affilation. EnviroScience Inc.	
Address 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
e-mail address LSayre@EnviroScienceInc com	
Name of Wetland: W-12	
Vegetation Communit(les) PEM	
HGM Cleas(es) Depressional	
Location of Wetland Include map, address, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
	_
Company of the Compan	N WORKS CALL SEC. 12 Sec.
Lavucing of 0 tm Coordinate 40 647193,	-80.717561
USGS Quad Name	West Point
County	Columbiana
Christino	Yellow Creek
Section and Subsection	
Hydrologic Unit Code	#05030101
SteVest	04/30/2015
National Welfand Inventory Map	×
Ohb Welland Inventory Map	
Soil Survey	×
Delinestion report/mep	×

Welfand Size (acres, hectares) 0 012 acres onsite	
Sketch, brokude north arrow, retail one)hip with other surface waters, vegetation zones, etc. Please refer to site wettands and water resources map.	, etc.
Comments, Narrative Discussion, Justification of Category Changes	
Final score: 29.5	Category: 1

### Scoring Boundary Worksheet

INSTRUCTIONS The unital step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "junisational boundaries." For example, the scoring boundary of an isolated cattal an mark hociard in the middle of a farm field will likely be the same as that welland's junisdictional boundaries. In other instances, however, the scoring boundaries areas of heterogeneous complexes of welland in juliand. In separating wellands for accorning princes, the bydrologic regime of the welland is the main criterion that should be used. Boundaries between contiguous or connected wellands should be established where the volcane, flow, or velocity of water moving though the welland is defined as some poundaries, use the guidelines in the ORAM Manual Section 3.0. In extrain instances, it may be difficult to establish the scoring boundary for the welland being rated. These problem studies include wellands that form a patchwork on the landscape, wellands divide by artificial boundaries like property fences, roads, or rationed embalmenting, wellands that accomingous with stream, slaces, or rivers, and estuanne constal wellands. These situations are discussed below, bowever, it is recommended that Rater contact Oliuo EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clanification of the appropriate scoring boundaries of a particular wetland.

*	Steps in properly establishing acoring boundaries	done?	not applicable
Step 1	identify the welfand area of interest. Thus may be the site of a proposed knyact, a reference site, conservation site, etc.	×	
Step 2	Kently'the kozdions where there a physical evidence that hydrology changes repelly. Such whereve vertices both natural and humanishous disease they are vertices or evidence by the state of the print protest where the water verticities caused by theme or offer, points where the water verticity changes analytic at raide or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic inferaction between the westlands or parts of a single westland.	×	
Step 3	Delineate the boundary of the welland to be rated such that all areas of interest that are confidence to and within the areas where the hydrology does not change algorithmathy. I.e. areas that have a high degree of hydrologic interection are included within the scoring boundary.	×	
Step 4	Determine if artificial boundaries, such as property lines, siste lines, need, relined embantments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.	×	
s degs	In all isstances, the Pater may enlarge the mirror un scoring boundaries discussed here to score together wetlands that could be accord departiely		×
Step 6	Consuit ORAM Manual Section 5 0 for how to establish scoring boundaries for wellstack that form a patchwork on the landscape, divided by artificial boundaries, configuous to streams, lakes or fivers, or for dual classifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

INSTRUCTIONS Answer each of the following questions (Questions I, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature and by submitting a Data Services Request to the Ohio Department of Natural Aerosa and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F1, Lohimbus, Ohio 43224, [44.265-4515 (phone), 614-265-3096 (fax), http://www.dur.giste.ohias/ding. The renamining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note "Critical habitai" is legally defined in the Endangered Species of as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the welland is listed in the appropriate Siste of Ohio database

**	Question	Circle one	(
-	Critical Habitat. Is the weltand in a township, section, or subsection of a build States Geological Survey 15 misured buscharges that has been deepgraled by the U.S. Fish and Wildlie Services as "critical subsets deepgraled by the U.S. Fish and Wildlie Services as "critical subsets" for any threatened contangencial point or artists species? Note as of Jarnary 1, 2001, of the flocerally letted endangered or threatened species which can be found in Ohio, the Indiana Bat has had entical habitat deepgrased (150 FR 1912 July 6, 2000).	YES Wettand should be evaluated for poseible Category 3 status Go to Question 2	Go to Question 2
2	Threatened or Endangaried Species. Is the welland known to contain an Individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Welland is a Category 3 weitend Co to Question 3	Go to Question 3
m	Documented High Quality Wetland. Is the weland on record in Natural Herlage Delabase as a high quality wedand?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
-	Significant Breeding or Concentration Area. Does the welland contain documented regionally significant breeding or norbreeding welleflow, neotropical songolid, or shorebird concentration areas?	YES Wettand is a Catagory westand westand Co to Question 5	Go to Question 5
<b>1</b> 0	Category I Wetlands. Is the welland less than 0.5 hoctares (1 acro) is abe and hydrocipically less ultrand and either 1) comprised of vegetation that is dominated (greater than eightry per cent area cover) by Phistoria annotationes. Lythrum salcante, or Physighia examinity or 2 an addition from casted or exceeded on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Questlon 6	(NO) Go to Question 8
•	Bogs Is the welland a peet-excurrulating welland that 1) has no algorificant increases. Againfact inflower or authors, 2) exported actiophilic masses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover, 4) at least one species from Table 1 is present, and 5) the cover of innestive species (see Table 1) is <25%?	YES Wetland is a Catagory 3 wetland Co to Question 7	(NO) Go to Question 7
<b>1</b>	Fens. Is the wedand a carbon accumulating (peet, muck) welfend that is saturated utring most of the year, prinsibly by a discharge of free flowing, minest rich, ground water with a circumsulate (n (5-8-0)) and with one or more plant species lided in Table 1 and the cover of lineasive species listed in Table 1 and the cover of lineasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Co to Question &a	Go to Question Be
ā	**Old Gowyhl Forest.** is the welland a located welland and it the forest characterized by but not lented to, the fotbwing characterized by but not lented to, the fotbwing characterized but projected manufacture and expense of poses tage (accepting at least 50% of a projected manufacture attended age for a specieta); life or no evidence of human-caused understoy desurbance cluring the past 80 to 100 human-caused understoy desurbance cluring the past 80 to 100 cancey frees interspensed with cancey greats and multilapprend cancepies, aggregations of cancey frees interspensed with cancey great, and significant numbers of standing dead anage and downed logs?	YES Wetland is a Category 3 wetland Go to Question 8b	Go to Question 8b

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98	Mature forested wetlands, is the wetland a forested wetland with	YES	ON)
	SOLAN OF FIGURE OF UNE COMME OF URSPORT FOR THE CHARGES CONTRIBUTION OF		0
	decidedus trees with large diameter's at breest neight (dbh), generally diameters creater than 45cm (17 An) dbh?	wegang should be evaluated for possible	Co to Cueston Se
		Calegory 3 status.	
		Go to Question Se	(
ā	Lake Erie coastal and tributary wetlands is the wetland located at	YES	(ON
	an elevation less than 5/5 feet on the USGS map, adjacent to this alevation or along a frituder to I ake Enterthal its accessible to tab?	Go to Ossetler St	Go to Compare to
£	Does the wetland's hydrolcov result from measures designed to	YES	ON
:	prevent erosion and the loss of aquatic plants, i.e. the wetland is	}	<b>!</b>
	pertietly hydrologically restricted from Lake Erie due to takeward or	Wettend should be	Go to Question 9c
	landward dikes or other hydrological commusit	evaluated for poesible Category 3 status	
		Go to Question 10	
æ	Are Lake Erie water levels the wetland's primary hydrological influence.	YES	S.
	is the wettand is hydrologically unrestricted (no lakeward or upland	70 11 10 10	0. to 0. to 10.
	Corder attendants, or the wetland can be characterized as an "sectionarys" undered with later and these influenced furthers. These	GO TO COMBOON BO	OL UCISSON OF
	requesting vectors of which have an interest interest interest in the industrial confidence and the recommendation of the confidence in the confidence and the confidence in t		
	wellands, or those convinated by submersed aquatic vegetation	VFS	
2	Loss the weight have a precommance of native species within its vendation communities, without honorative or disturbance integral	6	Ę
	native species can also be present?	Wetland is a Category	Go to Question Se
		3 wedand	
		Go to Question 10	
å	Does the welfand have a predominance of normalive or disturbance	YES_	ON.
	S OCCUPANT TO THE PROPERTY OF	Wetland should be	Go to Question 10
		evaluated for possible Category 3 status	
		Go to Question 10	(
₽	Lake Piain Sand Prairies (Oak Openings) is the welland tocated in	YES	(ON)
	LUCSS, Fullon, Herry, or Wood Countes and can the weden'd be characterized by the following description, the united has a sendo	Wetland is a Cotanon	S to Case 14
	substrate with interspensed organic metter, a water table often within	3 wedand	
	several inches of the surface, and often with a dominance of the		
	grammeous vegetation table in Table 1 (woody species may also be orweard). The Chio Denartment of Natural Recourse Division of	Go to creenou 11	
	Natural Area and Preserves can provide assistance in confirming this		
	type of wettend and its quality		
÷	Relict Wet Prairies. Is the wetland a relict wet prairie community	YES	(NO)
	commissed by some or as of the Species in 1809 1. Extensive prairies	Wolland should be	) Complete
	Were runnerly rotated in the Delicy Free (wedge) and Union Countles. Sendusty Plains (Wyende). Countles and Made	evaluated for possible	Ouentitetive
	Counties), northwest Ohio (e.g. Ere, Huron, Lucas, Wood Counties).	Category 3 status	Rating
	and portions of western Civio Countes (e.g. Darke, Mercer, Misrra, Montgomery, Van Wert etc.).	Complete Quantitative	
		Keting	

1

Invasive/exotic spp	fen species	pod species	Dak Opening species	wet prairie species
Lycherum salocana	Zygadenus elegans var ginneus	Codla paluatria	Carex cryptolepus	Calamograstis canadensis
Myriophythum spacerum	Cocalia plantagmes	Carex atlantics wer capillaces	Carex lasiocarpa	Calamoerostis atricsa
Najas minor	Cores flore	Carea echinate	Cones stricto	Carex athernoles
Photonts anomanoces	Corts steriffs	Cares of months ma	Cladius mariscoides	Corez harbaneil
Physgrantes australis	Cares stricts	Correct trumperment	Calamagnizates stricto	Come notifies
Роциноденов старыя	Deschamosia coestainsa	Chamandaning calyculate	Calamounativ consideran	() and the second
Ranterculus ficaria	Eleocharie nastellata	Decretor perticulator	Quemas naturale	Secretary of the second
Photography fermenda	Erlandonson wir direction	Statement of the second		Market and an arrange of the second
To-be commendate	Contraction and the second	The second second		Demonda grounder rains
STORY MAKE THE STORY	Centamopura app.	1400TE BINCING		Liants spices
Typha nglasca	Lobella kalmti	<b>Nemopanthus mucromatus</b>		Lydmachia quadriflora
	Parnazsia glanca	Schechmenta palustria		Lythram alatum
	Potentilla frutscom	Solagenum no.		Premarkeness wretainess
	Rhammus adnifolia	Рассиция мастосатом		Sciobacte terrefundamoneum
	Arymenospora capillacea	Vaccinium commissions		Sorvey mustanting
	Saler candida	Увеселини взновосов		Sparting pertinate
	Saltz myrzcoides	Woodwardsa wrginica		Solubon orderite
	Salix serismes	Xvris defformis		•
	Solidage objoensis			
	Toffeddig gluthosa			
	Triglochus martimum			
	Triplocher palustre			

End of Narrative Rating Begin Quentitative Rating on next page.

0RAM v 8 0 Flad from Curreliative Rating Sites: Soutified Energy Interconnection Facility Rater(s). L. Sayre	Date: 4/30/2015
1	
Metric 1. Wetting Area (size).  Select one size cleas and assign score Soloct one size cleas and assign score Soloct one size coloculation (size size coloculation)  (to be coloculation) (size size (size coloculation)) (size)	
1 and 1 and	
Metric 2. Upland buffers and surrounding land use.  2. Course serves before with: Seriol only one and serior some. Do not double check.  WIDE British a seriog Zin 16 of 10 cmos sound welfare the principle (7) cmost only only of the course sound welfare the check to the course of th	ei (2)
	w factow field. (3)
* <b>LLL</b> .	11112
2) dim. Bove one of double check and sherage	vaturatori, cavor toris di della permenandy incursated/sellurated (4)  Regularly invariated (2)  Seasonally invariated (2)  Seasonally alturated in upper 30cm (12n) (1)
Normal and Control application   125 Chans. all child feet   125 Chans. all child fe	X introgrammentary X introgrammentary X one beartiff thack designing X Other CLLVERT
10.5 26 5 Metric 4. Habitat Alteration and Development.  The solution of the spend (4)  Recovered (3)  Recovered (3)  Recovered (4)  Recovered (6)  Recovered (7)  Recovered (7)  Recovered (8)  Recovered (9)  Recovered (9)  Recovered (9)  Recovered (9)  Recovered (9)  Recovered (9)  Recovered (9)  April Habitat development (9)  April Habitat development (9)  Recovered (9)  Recove	
Note or none apparent (g) Recovered (b) Recovering (b) Recovering (c)	a birtick saping renoval rectionactivity and bed removal evaluation evaluation fearung fearung fearung fearung
d 1 February 2001 Jan	

Date: 4/30/2015											,	icrotopography.	wer Scule	Append or comprises <0 The (0.24.7) ecres) compgious area.  Present and educar contribute area in antical and acceptant and acceptant and acceptant area.	of moderate quelity or comprises a significant part but is of low quality	Prefert and either comprises significant part of wedand's vegotation	fand is of modernie quality, to comprise a timust part and to of high quality	Present and comprises significant part, or more, of welland's vegetation and is of high quality.	egetsdon Quality	Low app diversity and/or predominance of normalive or delichance tolerant native species	Native app a/e dominant component of the vegetation, atthough	mortrative andfor disturbance tolerant netter app can also be present, and species diversity incidents to moderality thigh, but generally wio	presence of rare, threatened, or endergered app	A predominance of native specific, with retreative size and/or depution or before and block the production of the produc	spp diversity and ofers, but not always the presence of rare, threshined, or endengered soo	less Quality	Absent <0 The (0.247 Acres)	Low 0.1 to <1ha (0.247 to 2.47 acres)	Moderate 1 to <4he (2.47 to 9.85 ecros)	High 4hm (B 86 acres) or more	ate.	Absent	Present in very ernal amounts or if more common of marginal quality	Present in moderate amounts, but not of highest quality or in small	ambunts of highest quality	When the first of the structure and the structure of the	
w-ız Rater(s): L.Sayre		ıń.				unrestricted hydrology (10)	metricial hydrology (5)	(01)	Known occurance state/federal Prestand or endengered species (10)	fowl habitat or usage (10)	1 Quellative Rating (-10)	es, interspersion, m	Vegetation Community Cover Scale	0	-		2		Nambre Description of Vegetation Quality	¥6	рош			ų daų		Mudital and Open Water Cless Quality	o l	-	~	n	Microtopography Cover Scale	٥	-	7		•	
		Metric 5. Special Wetlands.	Bog (10)	Old growth forum (10)	Mature formated wedlend (5)	Lake Ente coestal/Inbutery weltend -unvestidaed hydrology (10)	Lake fire constatributory wellshownshiped hydrology (5)	Reict Wet Prantes (10)	Known occurance state/federal fire	Significant migratory songbirdwater fowl hebitat or usage (10)	Calegory 1 Wetland, See Question 1 Qualitative Rating (-10)	Metric 6. Plant communities, interspersion, microtopography.	Se. Weltend Vegetalion Communities.	Score or present temp of to a scale	Aquato bed	9.6	Forest	Mudflets	Other Sb. Horizontal (plen view) Interspection.	904. Heby (8)	Andready Not 15	Moderate (3)	Moderately low (2)	(1) MC(1)	Mone (0) Xc. Coverage of Investive plants, Refer to	Table 1 ORAM long form for let. Add or	deduct points for coverage.	Extensive >75% cover (-5)	Moderate 25-75% cover (-3)	Sparte 5-25% cover (-1)	Nearly absent <5% cover (0)	Absent (1)	spography nears using 0 to 3 scale.	Vegetated hummacke/beaucks	Course woody debrie > 15cm (Biri)	Standing dead >25cm (10kn) dots Amphibles breeding pools	_
ORAM v 6.0 Field Form Quantitative Rating Site: Southfield Energy Interconnection Facility	26.5	0 26.5 Metric								1		29.5	max 20 pts. ubbestal 6a, Wether	d at 8,000	~	1			Se. Hein	Score only one	<u>}</u>			-	6c. Covers	Table 1 OF	deduct por	1		_	0		6d. Microlopography Score at present usin		<u>-</u>	0	

[ 29.5] GRAND TOTAL (max 100 pts)

The prisoner more consumerate the scene prespons between company of the behavior scenes. He state

### **ORAM Summary Worksheet**

	Result		If yes, Category 3	If yes, Category 3	If yes, Calegory 3	If yes, Category 3	If yes, Calagory 1	If yes, Category 3	If yes, Category 3	If yes, Category 3	If yes, evaluate for Category 3, may also be 1 or 2	If yes, evaluate for Category 3, may also be 1 or 2	If yes, Catagory 3	If yes, evaluate for Category 3, may also be 1 or 2	If yes, Category 3	If yes, evaluate for Category 3, may also be 1 or 2							Category based on score breakpoints Category 1
circle	insert	Score	VES (NO	YES (NO)	VES (NO	YES (NO	YES (NO	YES (NO	YES (NO)	YES (NO	-	_	_		YES (NO	Ow sa.	-	w.	10	10.5	0	દ	29 5
			Question 1 Critical Habitat	Question 2 Threatened or Endangered Species	Question 3 High Quality Natural Welland	Question 4 Significant bird habitat	Question 5 Category 1 Wetlands	Cheston 6 Bogs	Question 7 Fens	Question Ba. Old Growth Forest	Question 8b Mature Forested Wetland	Question 9b Lake Ene Wetlands - Restricted	Question 9d Lake Ene Wetlands – Umestricted with native plants	Question 9e Lake Ene Wetlands • Unrestricted with invasive plants	,	Question 11 Relict Wel Prames	Metric 1 Size	Metric 2 Buffers and surrounding land use	Metric 3 Hydrology		Metric 5 Special Wettand Communities	Metric 6 Plant communities, interspersion, microtopography	TOTAL SCORE
		İ	Namative Rating													i	Quantifative Rating	•					

Complete Wetland Categorization Worksheet.

## Wetland Categorization Worksheet

Choices	Circle one		Evaluation of Categorization Result of ORAM
Old you arrawer "Yes" to any of the following questions	YES	(E)	ts quantitative rating access less than the Category 2 acoring threshold (excluding gray zone?? If we newstude the
	Welland is		category of the wetland using the narrative criteria in OAC
Narrative Keling Nos 2, 3, 4, 6, 7, 8a, 9d, 10	categorized as a Category 3 wettend	(	Rule 3745-1-54(c) and biological and/or functional assessments to determine if the wetland has been over-catenorized by the ORAM.
Did you answer "Yes" to any	YES		Evaluate the wettand using the 1) namelive criteria in OAC
or the rottowing questions	Wednesd should be	)_	Rule 3/45-1-54(C) and 2) the quantitative rating acone. If
Namelive Rating Nos 1, 8b,	evaluated for		either of these, it should be categorized as a Category 3
20, 28, 11	possible Category 3 status	_(	wetland. Detailed biological and/or functional assessments may also be used to determine the wetlands paramony.
Did you enswer "Yes" to	YES	<u></u>	is quantitative rating score greater than the Category 2
Negative Rating No. 5	Wolland It	)	scoring threshold (including any gray zone)? If yes, neverthers the response of the method selection the percent.
	calegorized as a		criteria in OAC Rule 3745-1-54(C) and biological and/or
	Category 1 wedand		functional assessments to determine if the wettand has been undercateoptized by the ORAM
Does the quantitalive score	(YES)	Q	If the score of the wetland is located within the scoring
fall within the acoring range	)		range for a particular category, the wetland should be
of a Category 1, 2, or 3	Wefand is		assigned to that category. In all instances however, the
Wedand	Basigned to the		nametive criteria described in OAC Rule 3745-1-54(C) can
	category based on		be used to taking or change a categorization based on a quentitative accre
	the scoring range		
Does the quantitative score	YES	<u></u>	Rater has the option of assigning the welland to the higher
Calanno 1 or 2 or Calanno	Wellowd in	)	or and two categories of to session a category based on the
2 or 3 wedlands?	sesioned to the		functional assessment beloning assessment at our and a
	higher of the two		consideration of the narrative criteria in OAC rule 3745-1-
	categories or		SHC).
	assigned to a		
	category based on		
	Ostanson and		
	the namative		
	orterie		
Does the wettand otherwise	YES	<u>Q</u>	A welland may be undercategonzed using this method, but
Exhibit moderate CAY aupend	Mindred	Moderal	still exhibit one or more superior functions, e.g., it wetlands
recreational functions AND	Indemslacedzed	ansioned to	bould committee may be degraded by numer activities, but the wetland may still artible a posity hydrologic
the wetland was not	by this method A	Calegory	functions because of its type, landscape position, size, local
categorized as a Category 2	written justification	determined	or regional significance, etc. In this circumstance, the
wetland (in the case of	for recategorization	Ey the	nametive criteria in OAC Rule 3745-1-54(C)(2) and (3) are
moderate Tunctions) or a	should be provided	250	controlling, and the under-calegorization should be
Catagory 5 wedging (in the	Information Form		connected. A written justification with supporting reasons or information for this determination should be consided.
this method?			

	Category 3
inal Category	Category 2
T.	Category ()
	Choose one

End of Ohio Rapid Assessment Method for Wetlands.

#### 9

#### Background Information

-80.717147
West Point
Columbiana
Yellow Creek
#05030101
04/30/2015
×
×
×

William Control of the Control of th	
Wetland Size (acres, heclare) 0 192 acres onsite	
Sketch include north arrow, relationship with other surface waters, vegetation zones, etc.	ines, etc.
Please refer to site wetlands and water resources map.	
Contrnents, Narrative Discussion, Justification of Category Changes	
Final score: 47	Category: 2

### Scoring Boundary Worksheet

INSTRUCTIONS The mutual step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated calital marth located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large configueus areas or befringeneous complexes of wetland an upland. In separating wetlands for scoring purposes, the bydrologic regime of the wetland is the main criterion that should be used. Boundaries between contigious or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a kigh degree of hydrologic interaction should be scored as a range wetland. In determining a wetland's storing boundary of the wetland being rated. These problem sutuations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fence, and of an interaction and embalmanies, wetlands divided by artificial boundaries and estimates or coastal wetlands. These situations are discussed below, however, it is reconstructed that Rater contact Ohio EPA, Division to Sufface Water, 4011Wetlands Section if there are additional questions or a need for further clanification of the appropriate socing boundaries of a particular wetland.

•	Steps in properly establishing ecoring boundaries	done?	not applicable
Stap 1	Identify the wedand area of interest. This may be the alte of a proposed impact, a reference site, conservation atte, etc.	×	
Stap 2	Liseribly the locations where there is physical evidence that hydrology changes rapidly Such evidence includes both natural and human-included changes including, constrictions caused by berna or disea, points where the water woodly changes rapidly at ladde or fells, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wellands or parts of a single welland.	×	
Step 3	Delineate the boundary of the welland to be reled such that all areas of steered that are configured is and which the serse where the hydroxogy does not change slightfoamly, i.e. sheen that have a the hydroxogy does not change slightfoamly, i.e. sheen that have a the hydroxogy does not change slightfoamly. I.e. sheen that have a the boundary boundary.	×	
y dens	Determine a striktiak boxtakere se such as properfy lines, striak lines, reads, railroad embahrinents, etc., ere present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrodytic regime changes.	×	
S dess	In all instances, the Rater may enlarge the informum scoring.  boundaries discussed here to some together wedlands that could be scored separately.		×
Step 6	Corsult ORAM Manual Section 6.0 for how to establish according boundaries for wetership style from a patchwork on the landscape, dwdeel by ertificial boundaries, configuous to streams, lakes or rivers, or for dujel classifications		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

INSTRUCTIONS Answer each of the following questions Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit of the liberature and by submitting a Data Services Request to the Ohuo Department of Natural Hermage Pala Services, 1889 Fourthan Square Court, Building F.; L'Columbus, Ohuo 43224, [44-255-4515 (phone), 614-255-3096 (fax), http://www.fur.safet.ohu.sching. The returning questions are designed to be answered primarily by the results of the site with Refer to the User's Manual for descriptions of these welland types. Note "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a lasted species or as an area that may require special management considerables of protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical tabitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

-	Question	Carcle one	
ŀ	Posting Darking to the majord in a leasants and or a theory of	VE	
	a Market Stoke Declared Stokes 75 minute Durchards that he	3	<u>(</u>
	A CLASS CASS CACCAGO CONTRA TO THE TANK CACCAGO AND	Mary Manual when 444 has	C and the C
		THE PERSON OF TH	S I COMPANY OF AC
	THEOLOGIC ICK AND DIRECTOR OF CITICAN OF AN INTERPORTED PRINTING AND IN	evalualied for possible	
	Note, as of Jenuary 1, 2007, of the tederary listed encangerad of	Caragory & Manus	
	threatened species which can be found in Ohio, the Indiana Bet has	,	
	had critical habitat designated (50 CFR 17 85(a)) and the plaing plover	Go to Question 2	
ļ	The Tree Critical Francial proposed (65 FR + 1617 July 6, 2000)	100	
×	Intestaned or Endangered Species. Is the weitend known to contain we believed of or decimal of an electricity of the second section.	YES	<u></u>
	three faces of an endeapened wheel or entered three the or or or or or or or or or or or or or	Wolfand is a Calappay	Condition of of
	controls are a supplied to the supplied to the supplied to	3 wedand	
		Go to Question 3	(
<b>"</b>	Documented High Quality Wetland. Is the wetland on record in	YES	(on)
	Natural Heritage Detabase as a high quality wetland?	•	) }
		Wedand is a Category	Go to Question 4
		Go to Question 4	
-	Significant Breeding or Concentration Area. Dose the welland	YES	(NO)
	contain documented regionally elgrificant breeding or nonbreeding	•	)
	welerfowl, neotropical songbird, or shorebird concentration areas?	Wetland is a Category	Go to Question 5
		3 wedand	
		Go to Question 5	(
 	Category 1 Wetlands, is the wetland less than 0.5 hectares (1 acre)	YES	NO
	In size and hydrologically leolated and either 1) comprised of		)
	vegetation that is dominated (greater than eighty per cent ereal cover)	Wetland is a Category	Go to Question 6
	by Phelane announces, Lythum selecin, or Phagmies australis, or	1 wellend	
	2) an ecidic pond created or excevated on mined lands that take little or	4 4 1	
-	no vegetation?	Go to Chestion 6	
•	Bogs. Is the wellend a peak-accumulating welland that () has no	YES	<b>D</b>
	Englishment and Control of Control of Supplicity descriptions of the supplicity of t	Markened by the Cathorine	) Constitution of
	particularly symbol and applying a management of the process and the particular of the	3 wetland	
	cover of invasive species (see Table 1) ta <25%?		
		Go to Question 7	
7	Fens. Is the wedand a carbon accumulating (peal, muck) wetland that	YES _	(NO
	Special and the control of the contr	Wedgend in a Cadadana	Contraction Ro
_	working, mind at hear, groups water white a cooperague particle of	A sentant	
	Invasive apecies listed in Table 1 ts <25%?		
		Go to Question 8a	
97	"Old Growth Forest." Is the welland a forested welland and is the	YES	(N)
	forest characterized by, but not limited to, the following characteristics		)
	overstory canopy trees of great age (exceeding at least 50% of 8	Wedand II & Category	Co so Cheston so
	projected (necessaries energials) by a species, into a species of the part of the 100		
	years, an all-aged structure and multilayered canopies, aggregations of	Go to Question 8b	
	carupy trees interspensed with canopy gaps, and significant numbers		
	of standing deed snage and downed logs?		_

Í			
98	Mature forested wellands. Is the welland a forested welland with 50% or more of the cover of upper forest cencor consisting of	YES	<u></u>
	deciduous trees with large dameters at breast felight (dbh), generally diameters greater than 45cm (17 7m) dbh?	Welland should be evaluated for possible Category 3 status.	Go to Question 9s
		Go to Question 9a	(
z	Lake Erie coastal and influtary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjoors'the this amender or airtness influency in the Erie that is accessible to fest?	YES Go to Question 9b	So bounded to
[a	Does the welland's hydrology result from messures designed to prevent existent and the set of squaled plants in the welland is partially hydrologically restricted from Lake Ene due to skieward or landward dikes or other hydrological controls?	YES Wetland should be evaluated for possible Category 3 status Garto Caregory 10	NO Go to Question 9c
2	Are Lake Ere water levels the wetlend's primary hydrological influence, le the wetlend is hydrological influence, le the wetlend is hydrological trespected (A bishered to trylend border alteritions), to the wetlend can be characterized as an "estuatine" wetland with lake and fiver influenced hydrology. These house we hope sometime wetlend, him mouth wetlands appealing wetlends earth arthe wetlends, internouth wetlands, or bose dominated by submessed equatic wednether mouth wetlands.	YES Go to Question 8d	NO Go to Question 10
<b>3</b>	Does the vector'd have a predominance of native species within its vegatation communities, although non-talive or disturbance tolerant native species can also be present?	YES Welland is a Category 3 wetland Go to Question 10	NO Go to Cuestion 9e
3	Dose the welland have a predomentors of non-naive or deturizance bloerard rative plant apecies within its vegetation communities?	YES Wedand should be evaluated for possible Catagory 3 status Go to Question 10	NO Go to Question 10
<b>2</b>	Lake Plain Sand Prairies (Oak Openings) is the welland located in Lucas, Entury, Henry Wood Countes and can the welland be characterized by the idensity description. We welland have sarry substrate with interspensed organic metter, a water table often within serveral inches of the surface, and other with a constantions, and other with a constantions are granificed, and other passed organic ratios of the granificeus regelation listed in Table 1 (woody species may also be present). The Chio Department of Natural Resources Christon of Matural Aces and Presence can provide assistance in confirming this hope of wellend and be quelify.	YES Weldend is a Calegory 3 welland. Go to Question 11	Go to Question 11
  -	Relict Wet Prairites. Is the weldend a relict wet prairie community community by some or find the species in Table 1 Scharehve prairies were formen's located in the Darby Plans (Medicon and Union Counties). Senduatry Plans (Mysacod, Czewford, and Merlon Counties), Senduatry Plans (Mysacod, Czewford, and Merlon Counties), northwest Othe (9 Erie, Hurn, Lucas, Wood Counties) and portions of western Chie (5 Counties) (e. Darka, Merces, Memi, Mongomery, Van West etc.).	YES Welland should be everyward by the category 3 status Complete Quantitative Rating	Complete Cuantitative Rating
		R. mary	

invasive/exotic app	fen speckes	pod species	Oak Opening species	wet prairie species
Lythrum salicana	Lygadenus elegens var glaucus	Calls palustris	Carex cryptolepus	Calamagrostus canadensus
Myriophyllum spicatium	Cacalia plantagnes	Carer ethantics war capillaces	Cares lastocarpa	Calementation attribut
Najas minor	Cares flava	Carex echinque	Cares atricia	Carex atherodes
Phalaris anundinaces	Cores sterilis	Carex oligosperma	Cladium mariscoldes	Carer burbannii
Phragmites australis	Cares soricis	Cares (rupperma	Calamagnostis stricta	Carez pelluts
Polamogeton crispus	Deschampate overpiose	Снатандарные сарусијала	Calamagnostis canadensis	Carca sartwellii
Ransmentus ficana	Eleocharis restellate	Decodos verticillasu	Quercus palustris	Gentiana andrewall
Rhammus frongula	Епорватт межентивани	Erlophorism vivginicum		Helianthus grosseserrates
Typha angustyolia	Gentianopsis sep	Larix laricing		project strated
Typha xglauca	Lobelia halmui	Nemopanthus mucronatus		Lymmachia owadriflora
	Paracsia glauca	Scheckzenia patustriy		Lythran alaban
	Potentilla frusicosa	Хумартым дэр.		Pychanthenium vivginiamum
	Rhammus aingolia	<b>Уассіным мастосатром</b>		Suphasm terebinthusaceam
	Rhynchospora capillacea	<b>Уассіния согумі</b> родин		Sorghantina mutana
	Soirs candida	<b>Уассилия</b> апусосов		Sparting pectings
	Sola myricoides	Woodwardia virgings		Solidoro riddellii
	Saltz serissima	Xyru difformis		
	Solidago ahioensis	ı		
	Tofieldio grutinosa			
	Inglochus maritimum			

End of Narrative Rating. Begin Quantitative Rating on next page.

Date: 4/30/2015	ow fided. (3)	(b) Soore all that apply (10) yes book (b) (b) (c) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	point source (nonsbormweller) (straygranding road bedRR Back andjing		atribisaphy renoval Tertibisaphy renoval Sedimentation Sedimentation Sedimentation Tertibis Tertified sedictment
ORMAY 6 0 Final Form Countitutive Rating Site: Soutsfield Energy Interconnection Facility Rater(s): L.Sayre	Metric 1. Wetland Area (size).	16   26   Metric 3. Hydrology.	Notice or note apparent (12) Charts at disturcances observed	16 42 Metric 4. Habitat Alteration and Development.  **A State of the or one agreem (a) According (b) Security (c) Securit	Nome or none apparent (9)  Typecometal (3)  Recorded or no recovery (1)

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ORAM v 5.0 Field Form Quantitative Rating	Annithment P	Cating W-13		
Site:		Rater(s	Rater(s) L.Sayra	Date: 4/30/2015
42		5 5 5		
i	Metric	Metric 5. Special Wetlands.		
máx 10 pla. Nábola	S C	Check all that apply and acore as indicated.		
		500 (10)		
		Old growth favori (10)		
		Mature forested vertiend (5)		
		Lake Erie constat/Influency wedend -unmatricled hydrology (10)	ched hydralogy (10)	
		Lake Eris coastel/tributary sections-restricted hydrology (5)	d hydrology (5)	
		Lake Plein Sand Prairies (Dak Operings) (10)	6	
		Retol Wel Prairies (10)		
		Known occurrence state/federal finesterned or endangered species (10)	or endangered species (10)	
		Significant migrations complicativesies fow I habitation usage (10) Calapoy 1 Wetland, See Quastion 1 Qualitative Ration (-10)	bilat or usage (10) Latine Retina (-10)	
5 47	Metric	Metric 6. Plant communities, interspersion microtopography	nterspersion mic	
-[	Se. Wellen	St. Welland Vegetation Communities.	Vestation Septembre See	solopograpity.
•	Score all pr	Score all present using 0 to 3 scale	0	Absent of comprises <0 the (0.2471 acres) configurate area
	,	Aquetic bed	•	Present and atter compress small part of wederad's vegetation and as of moderate quality or compress a significant part but is of low
	7	Emergent		
	3	during.	7	Present and either comprises significant part of wedland's vegetation and is of moderate quality or comprises is small part and is of high
				County,
		Musical Chart Water	•	regardion and its of high quality
_	6b. Horizon	Bb. Horizzontal (plan view) interaperation,	Nemative Description of Vegetation Quality	tetion Quality
	Score only one.	- -	3	ecuadra sip to evalention in ecramination of distributions of the most
	T	Hgh (5)		tolerant native apacies
		Moderately high (4)	шод	Native app are dominant component of the vegetation, akhough normalive ander descriptions belowed within
		Moderate (3)		and species diversity moderate to moderately light, but generally with
		Moderately love (2)		presence of rare threatened, or endangened app
	-	Love (1)	ron.	A predominance of netwe species, with normalive app and/or delarbance interest netwe area shared to add as a second size.
	Sc. Covern	None (0)		app diversity and often, but not always. The presence of rare,
	Teble 1 OR	r list. Add or	Muchat and Open Water Class Quality	- Quality
~_	seduct point	•	٥	Absent <0 Tha (0.247 scres)
		Edensive >75% cover (-5)	-	Low 0.1 to <1ha (0.247 to 2.47 acres)
	ŀ	Moderate 25-75% cover (-3)	2	Modernia 1 to c4he (2 47 to 8 86 scree)
<del></del>	-	Sparse 5-25% cover (1)	3	High 4hi (9 85 acres) or more
		Nearly absent <5% cover (0)	Morotopography Cover Scale	
^		Absent (1)	0	Abert
. w [	od. Mecrompography Score at present usin	Oct. Microspography Score all present using 0 to 3 scale	1	Present in very small amounts or if more common of marginal quality
	•	Vegetated hummarch/hasuges	,	Property of the second
	Т	Course woody debris >18cm (Bin)	•	emounts of highest quality
	-[	Standing deed > 25cm (10th) doh	•	
	Ì	Amphosen breeding pools		Present in moderate or greater amounts and of highest quarty
47 GRAND	TOTA	GRAND TOTAL (max 100 pts)		

Name to the most record california or the scoring brestports between california at the following auditous: http://egs.admin.

## **ORAM Summary Worksheet**

circle

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	Result	Change Catalogue	II yes, Category 3	If yes, Category 3	If yes, Category 3	If yes, Category 3	if yes, Category 1.	If yes, Category 3	If yes, Category 3	If yes, Category 3	If yes, evaluate for Category 3, may also be 1 or 2	if yes, evaluate for Category 3, may also be 1 or 2	If yes, Category 3	If yes, evaluate for Category 3, may also be 1 or 2	if yes, Category 3	If yes, evaluate for Category 3, may also be							Category based on score breakpoints Category 2
answer or	Insert	SCOP8	_	YES (NO	ON) SEA	YES (NO	YES (NO	YES (NO)	YES (NO	YES (NO	ves (	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	2	8	16	16		S	47
		Question 1 Crimal Habitat			Question 3 High Quality Natural Welfand	Question 4 Significant bird habitat	Question 5 Category 1 Wellands	Question 6 Bogs		Question 8a Old Growth Forest	Question 8b. Mature Forested Welland	Questron 9b Lake Erie Wellands - Restricted	Question 9d Lake Ene Wellands – Unrestricted with native plants	Question 9e Lake Ene Wellands - Unrestricted with invasive plants		Question 11 Relict Wet Prairies	Metric 1 Size		Metric 3 Hydrology	Metric 4 Habitat	Metric 5 Special Welfand Communities	Metric 6 Plant communities, interspersion, microtopography	TOTAL SCORE
		Name to Restroct	A INST DANGE														Quantitative Rating	•					

Complete Wettand Categorization Worksheet

## Wetland Categorization Worksheet

Did you answer "Yes" to any	YES	62	is quantitative rating score less than the Category 2 appring
of the following pusellone			Breehold forcheding over most? Fire manufacts the
Brancock Brancock and to	Wolland L	)	understand (excessing globy come) in year, recybroadia Life
Morrathes Buring Mos 2 2	S C C C C C C C C C C C C C C C C C C C		Date of the Annual Control of the Co
A 5 4 9- 04 40	Carle Con Con Con		TALLE 27-40-1-04-(C) and DOOGROE ENDOR INTERIORE
01 The 180 ' ' 0 *	Category 3 welland	(	assessation is to determine if the welland has been over- categorized by the ORAM
Didyou answer Yes to any	YES	Q¥.	Evaluate the welter of using the 1) nametive criteria in OAC
of the following questions		)	Rule 3745-1-54(C) and 2) the quantitative rating score. If
·	Wetand should be		the wetland is determined to be a Celegony 3 wetland using
Namative Rating Nos. 1, 8b,	evaluated for		either of these, it should be categorized as a Category 3
90, 9e, 11	possible Category		wettand. Detailed biological and/or functional assessments
	3 status		may also be used to determine the wetland's category
Old you answer "Yes" to	YES	<u>₽</u>	is quantitative rating score greater than the Calegory 2
		)	scoring threshold (including any gray zone)? If yes,
Nerrative Hatting No. 5	Welland is		reevaluate the category of the wettand using the nametive
	Cotagonza 4 see land		CHARLE IT CALC FLUE S/A011-04(L) and DOOGGOU BIRDY
	manual i series		been under-categorized by the ORAM
Does the quentitative score	(YES)	ON.	If the score of the wetland is located within the acong
fall within the scoring range	)		range for a perticular category, the wettand should be
of a Category 1, 2, or 3	Wetend is		assigned to that category in all instances however, the
wretternd?	assigned to the		nerrative criteria described in OAC Rule 3745-1-54(C) can
	appropriate		be used to clarify or change a categorization based on a
	category based on		quantitative score.
:	the ecoring range	(	
Loes the quantitative score	YES	<u>)</u>	Rater has the option of assigning the welland to the higher
Colombia 4 or 2 or Colombia	Windows In	)	of the two categories of to assign a category based on the
2 or 3 uniforming	programmy re-		results of a numery of wedler of assessment mentou, e.g.
A C. C. Westerning	hicher of the ho		Consideration of the normalism college in CAC mile 2745.4.
			CONSOCIALIZATION OF THE THE CRIBINE IN CASE (146-14-14)
	essioned to a		to to
	category based on		
	detailed		
	assessments and		
	the nemative		
Does the welfand otherway	VES	(S)	A uniform the man be made and a series that the man beautiful but have been been been been been been been be
exhibit moderate OR superfor	}	)	atili actibit one or more superior functions, and a westernor a
hydrologic OR habital, OR	Wetand was	Wedand is	biotic communities may be decreded by human activities
necreational functions AND	undercategorizad	assigned to	but the wetland may still exhibit superior hydrologic
the wetland was not	by this method. A	category as	functions because of its type, landscape position, size, local
categorized as a Category 2	written justification	determined	or regional significance, etc. in this croumstance, the
welland (in the case of	for receitegorization	ey the	nemative criteria in OAC Pule 3745-1-54(C)(2) and (3) are
moderate functions) or a	should be provided	OKAM	controlling, and the under-categorization should be
Case of superior functions) by	on Background		confided. A written justification with supporting reasons or
this method?			HECHINGROUS FOR LINE CARBITRICISMOST BROWING DR PROVIDED.
100 100 1			

	Category 3	
Final Category	Category 2	
F	Category 1	
	Choose one	

End of Ohio Rapid Assessment Method for Wetlands.

#### **Background Information**

Name Laura Sayre	
Date 04/30/2015	
Affiliation. EnviroScience Inc.	
Address 5070 Stow Road, Stow, Ohio 44224	
Phone Number 330-688-0111	
e-mail address: LSayre@EnviroScienceInc.com	
Name of Wetland: W-14	
Vegetation Communit(les) PEM	
H5M Class(es). Riverine	
Location of Wetland include map, address, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
	- · · -
LaitLong or UTM Coordinate 40 643601	-80 71642
bued Name	West Point
County	Columbiana
Township	Yellow Creek
Section and Subsection	
Hydrologic Unit Code	#05030101
Sin Vail	04/30/2015
National Wetland Inventory Map	×
Ohio Weltand Inventory Map	
Sot Survey	×
Delineation report/map	×

Wetland Size (acres, hectares) 0 002 acres onsite	
Skatch include north arrow, resistionable with other surface waters, vegetation zones, etc. Please refer to site wetlands and water resources map.	
Comments, Nametive Discussion, Justification of Category Changes	
Final score: 48 Cate	Category: 2

### Scoring Boundary Worksheet

INSTRUCTIONS The mutal step in completing the ORAM is to identify the "scering boundaries" of the weiland being rated. In many instances this determination will be relatively easy and the scoring boundaries will concide with the "junisdictional boundaries." For example, the scoring boundary of an isolated edital mental bocarded in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large configuous areas or beterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the bydrologic regime of the established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a slight wetland. In determining a wetland's scoring boundary to the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fence, and calculated embalished with all econing boundary for the wetland being stream, alkes, or nivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Chio EPA, Division of Surface Water, 401/Wetlands Section if these are additional questions or a need for further clanification of the appropriate scoring boundaries of a particular wetland

	Steps in properly establishing acoring boundaries	done?	not applicable
Step 1	Identify the webend area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Kerulty the locations where there is physical evidence that hydrodyy changes rapidly. Such evidence include both matural and human-housed changes including, constitions caused by berna or allea, points where the water workly changes might at includion change points where against inflowe occur at the confluence of here points where against inflowe occur at the confluence of hieraction that may restrict hydrologic interaction between the wellands or parts of a single welland.	×	
\$ dets	Delineate the boundary of the welland to be rated such that all areas of interest that are configures to and within the areas where the hydrotogy does not change algorithmship, Le areas that have a they degree of hydrotogic hierarchon are included within the accring boundary.	×	
Step 4	Determine if articial boundaries, such as properly lines, state lines, nocis, milloud entrativinally, etc., are present. These should not be most an include entrativing boundaries unless they coincide with areas where the hydrologic regime changes.	×	
Step 5	in all relationes, the Kater may enlarge the minimum socing.  boundaries discussed nere to some together wedends that could be sooned separately.	1	×
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for welenna that form a patchwork on the landscape, dwided by setticial boundaries, configuous to streams, lakes or rivers, or for dual classifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

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INSTRUCTIONS Answer each of the following questions (Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the hierature and by submitting a Data Services Request to the Ohio Department of Natural Resources. Division of Natural Actes and Preserves Natural Heritage Data Services, 1889 Fourtain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-5458; Sphone), 614-265-5406 (fax), http://www.ddr.stilet.ohi.sdd.ap. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitait's is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should confact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is histed in the appropriate State of Ohio database.

*	Question	Circle coe	
ŀ		Card Grie	
-	Critical Habitat. Is the wettand in a township section, or subsection of a United States Geological Survey 7.5 minute Quedrande that has	YES	<u></u>
	been designated by the U.S. Fish and Wildlife Service as critical	Wetland should be	Go to Question 2
	habitat" for any threatened of endangered plant or animal species?	evaluated for possible	
	Note as of Jeruary 1, 2001, of the federally listed endangered or	Celegory 3 status	
	threatened species which can be found in Ohio, the Indiana Bat has		
	had critical habitet designated (50 CFR 17 95(a)) and the piping plover has had critical habitet provided (65 FR 41812, hiv & 2000)	Go to Question 2	
7	Threatened or Endangered Species. Is the welland known to contain	YES	
	an individual of, or documented occurrences of federal or state listed	3	<u>)</u>
	threatened or endangered plant or animal species?	Wetland is a Category	Go to Question 3
		3 wedand.	
		Go to Question 3	-
60	Documented High Quality Wetland. Is the wetland on record in	YES	(ON)
	A purple of the control of the contr		); );
		Wetland is a Category 3 wetland	Go to Question 4
		Go to Question 4	(
•	Significant Breeding or Concentration Area. Does the wetland	YES	(ON
	contain documented regionally significant breeding or nonbreeding		)
	watertow, neotropical songbird, or shorebird concentration areas?	Wettend is a Category	Go to Question 5
		3 wedend	
		Go to Question 5	(
40	Category 1 Wettands. Is the wettend less than 0 5 hectares (1 acre)	YES	ON
	as acceptance that is described of formal and entire 1) comparison of	Mediand in a One and	) }
	by Phelants arendinaces. Lythum salicans, or Phesoniacs australia or	1 wedand is a calegory	Go to chestron 8
	2) an acidic pand created or excavated on mined lands that has little or		
-	no vegetation?	Go to Question 8	_(
w	Bogs. is the welland a peat-accumulating wettend that 1) has no	YES	(ON)
	Septimical Minows of Outlows, 2) Supports accophilic mosses,		)
	cover, 4) at least one species from Table 1 is present and 5) the	Trecano e a Caragory	Go to Creekton /
	cover of invasive species (see Table 1) is <25%?		
,		Go to Question 7	
4	reflex to the welleting is carrion eccuminating (pear, mick) wegang that is saturated during most of the veer, primarily by a discharm of the	LES.	<b>②</b>
	flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0)	Welland is a Category	Go to Question Be
	and with one or more plant species listed in Table 1 and the cover of	3 weltend	
	ENGRAPE Species Island In Lather 1 & <25%?	Go to Question Ba	(
3	"Old Growth Forest." Is the welland a forested welland and is the	YES	( <u>P</u>
	forest characterized by, but not limited to, the following characteristics.	:	)
	oversionly cardoly uses of great tipe (exceeding at least 50% of a	Wetland is a Category	Go to Question 85
	of human-caused understory disturbance during the past 80 to 100	Duenau c	
	years, an all-aged structure and multilayered canopies, aggregations of	Go to Question Bb	
	of standing dead snags and downed logs?		
		•	

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2	Mature forested wetlands. Is the welland a forested wetland with 50% or more of the cover of upper forest cancoy consisting of	YES	<u></u>
_	deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17 7m) dbt/2	Wetland should be exelusted for possible. Category 3 status.	Go to Question 9s
		Go to Question 9a	_(
ā	Lake Erie coastal and tributary wellands is the welland located at	YES	(ON)
	elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
3	Does the wettend's hydrology result from measures designed to prevent entertained to be one of an unit clarks i.e. the wettend to	YES	NO.
	partially hydrologically nestricted from Lake Ene due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Ga to Question Sc
		Go to Question 10	
æ	Are Lake Erie water levels the wetland's primary hydrological influence, in the wetland is included to include the included	YES	Q.
	border electricists, or the wellend can be characterized as an "settlerine" which we will be the characterized as an "settlerine" well with better and over influenced characters. These	Go to Question 9d	Go to Question 10
	include sendber deposition wellands, estuarine wellands, river mouth wellands, or those dominated by submersed equatic vegetation		
P6	Does the welland have a predominance of native apecies within its	YES	<u>Q</u>
	vegelation communities, affrough non-netive or disturbance tolerant	:	
	hative species can also be present?	Wetland is a Catagory 3 wetland	Go to Question Se
		Go to Question 10	
*	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vecetation communities?	YES	ON.
		Wetland should be	Go to Question 10
		evaluated for possible Category 3 status	
		Go to Question 10	(
2	Lake Plain Sand Prairies (Oak Openings) is the welland located in	YES	(oN)
	characterized by the following description, the workers be	Wolfmad in a Colombia.	) 3
	substrate with interspersed organic matter, a water table often within	3 wetland.	II Imreana maa
	several inches of the surface, and often with a dominance of the		
	present). The Chio Department of Natural Resources Division of	LL worsenon or on	
	Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality		(
F	Relict Wet Prairies is the wetland a relict wet prairie community	YES	(M
	varieties by some or on the spokes of 1800s. I progress progress was formed boarded in the Darby Diene Mode on and Holon	Wedland should be	) .
	Counties), Sandraky Plains (Wyandot, Charlott, and Marion	evaluated for possible	Cuentiative
	Counties), northwest Ohio (e.g. Eris, Huron, Lucas, Wood Counties), and contions of western Ohio Counties (e.g. Darks, Monrey Missey).	Category 3 status	Rating
	Montgomery, Van Wert etc.)	Complete Quantitative	

Table 1 Characteristic plant species.

Invasive/exotic app	fen species	bog species	0ak Opening species	wet prairie species
Lythrum saltcana	Z) godenus elegans var glaucus	Calla palustrus	Cerex cryotoleous	Calanderative consideras
Мутормуйия дисапия	Cacalta plantaginea	Cares atlantics was capillaces	Corex lanocure	Calamogratis serieta
Najas minor	Carex flave	Cares echinata	Cares stroda	Carer athernoles
Phaians annainacea	Carez sterilis	Carex oligosperma	Claduse marisopides	Carer Inchesonal
Phragmates australis	Cares stricts	Carex trusperma	Calamagrostis spicis	Carex mellita
Рокамодеюн старыя	Deschampsia coesputosa	Chamaedaphne calyculata	Calamagnostis canadensis	Cares seriestly
Ransaculus Scaria	Eleocharts restellata	Decodon verticilians	Overcus palustris	Centiana andrewali
Rhammus frangula	Блорначия мітаватнавит	Enophorum virgunicum	,	Helianous protesterrabus
Typha angustyolia	Gentianopais spp.	Larx laricina		paroles siring
Cypha eglance	Lobelta kalven	Nemopondas much custos		Evidence anadomics
	Parassa glauce	Scheckseria pahatris		Lythrum alaties
	Potentilla fruttoosa	Sphagnum syn.		Protections or present
	Rhammus atmfolia	<b>Уассінішя мистосатрая</b>		Sitraham terrefrantementers
	Rhymchaspera capillacea	<b>Уассівіцы согутосици</b>		Sarahan murahandarah
	Saltr candida	Vaccinium anycoccou		Sporting pectinote
	Salts myricoides	Woodwardsa varginica		Solidoon riddellis
	Sala sersama	Xyris difformis		
	Solidago onioensis	:		
	Tofieldia glutimosa			
	Тивросия манимия			
	Trglochin palume			

End of Narrative Rating. Begin Quantitative Rating on next page.

Date: 4/30/2015	) ) million field. (3)	Correctivity, Score all that apply  10 year Roccipies  1 (1) Service and the form to the (1)  Plant of well-michiganin (it.g., formal) complex (it)  Plant of well-michiganin (it.g., formal) complex (it)  Plant of well-michiganin (it.g., formal)  Scene for the con- Scene for the chi.  2 Seesonally marked of the chi.  Seesonally marked of the chi.  Doint source (nonstammentary)  Reported on the control of the chi.  Seesonally marked of the chi.  Reported on the control of the chi.  Control of the control of the chi.  Control of the control of the chi.  Control of the chi.  Other	ahribiseptig renoval hebesecuskaptig renoval hebesecuskaptig renoval estimatrialion deviging feming
ORANY & Diffiel from Countries Native Street Southfield Energy Interconnection Facility Rater(s). L.Sayre	Metric 1. Wetland Area (size).   Metric 2. Wetland Area (size).   Metric 3. Wetland Area (size).   Metric 3. Wetland Area (size).   Metric 3. Wetland Metr	. 1	16 45 Metric 4. Habitat Alteration and Development.  **A Subraria detribute. Score on a coule detains everge  **A becovered (3)  **Becovering (2)  **Becovering (3)  **A Habitat Alteration on experiment (4)  **A Habitat Inverse of the recovery (1)  **A Habitat Inverse of the recovery (1)  **A Habitat Inverse of the recovery (1)  **A Habitat Inverse of the recovery (1)  **A Habitat Inverse of the recovery (2)  **A Habitat Inverse of the recovery (3)  **A Habitat Inverse of the recovery (1)  **A Habitat Inverse of the recovery

ORAM V 5 0 FIA	ORAM v 5 0 Field Form Countitative Rating	Rathg W-14		
Site South	field Energy In	Site Southfield Energy Interconnection Facility   Ratents): L.Sayre	). L.Sayre	Date: 4/30/2015
- Approx	45			
0		Metric 5. Special Wetlands.		
and 10 pis	Substitution Check and	Check all that apply and econe se indicated.		
		Fen (10)		
		Old growth formet (10)		
	<u> </u>	Meture forested welfand (5)		
		Lake Erie coestal/hibutery weltern -unrestricted hydralogy (10)	tched hydrology (10)	
		Lake Erle coestal/liftutery wettend-neutricled hydrology (5)	of hydrology (5)	
	_	Lake Plain Sand Prairies (Oak Openings) (10)	ę.	
		Relict Wet Prairies (10)		
	1	Known occurrence state/federal Breatened or endangered upache (10)	for endangered apecies (10)	
	<u>}</u>	Opracoun registery aurgottsware room music or being (119) Celegory 1 Wetland. See Queetion 1 Quettinière Reting (-10)	Rathers Retiring (-10)	
က	48 Metric	Metric 6. Plant communities, interspersion, microtopography.	nterspersion, mic	rotopography.
max 20 pts	7	Sa. Wedend Vegetation Communities.	Vegatation Community Cover	Scale
	Score at pr		0	Absent of comprises <0.1hs (0.24/1 acres) computus area
	<u>}</u> ,	Aquetic bed	-	of moderate quality, or comprises a significant part but is of fow qual
	7	Emangent	,	1
		Struct	8	redeem and denot complies a granders part of watering waystaking and is of high
		Forest		quality
		Mudfate		Present and comprises significant part, or more of wetland's vegetation and is of high quality.
	ł	Open Water		
		Other		
	Score only one	THO LOCATION (Dalent winder) improved the control of the control o	Maria Over Cescription of Vegetabor Chianty	An entire was
	L	Heat (5)	š	Low applications along process and lost many of Louisian and Independent named of Louisian and Independent named of Louisian and Louisi
		Moderately high (4)	ф	Native app are dominant component of the vegetation atthough
		Modernie (3)		normative and or disputionize towards in moderately high, but generally with
	_	Moderatoly low (2)		presence of raw, threatened, or endangered spp
	-	[Os. (3)	Hoh	A predominance of native species, with nonnative spp and/or
	_	None (0)		disturbanca blesant native app absent or whally absent, and high spp diversity and offer, but not always, the presence of rare,
	Sc. Cover	c. Coverage of investve plants. Refer to		threelened, or endengered top
	deduct pol	l able 1 UKAM long form for JRC, Abd or Seduci points for coverage.	Muchal and Open Water Clays Guality  Assert of The 10 247 Acres	- Quality Absent of Tha ID 247 Acres !
		Extensive >75% cover (-5)		Low 0.1 to <1ha (0.247 to 2.47 acres)
		Moderate 25-75% cover (-3)	2	Moderate 1 to c4te (2 47 to 9 88 scres)
	_	Sparae 6-25% cover (-1)	-	High 4the (9 36 acres) of more
	٥	Nearly absent <5% cover (0)	Microhopography Cover Scale	
		Absent (1)	•	Absert
	6d More	8d. Microlopography Screen of present subsidies Section	-	Present in very small amounts or I more common of marginal customers
		Vectorated burnanuctary menuta		
	-	Course woody debris >15cm (Bin)	8	Present in modernie amounte, but not of highest quality of in email emounts of highest quality
		Standing dead >25cm (10tn) dbh	•	
	٥	Amphibian breeding pools	·	Present in moderate or granter amounts and of highest quality
01	TOT GIAS	A 1 1 - 2 4 400 min)		

48 GRAND TOTAL (max 100 pts)
Part to the most recent OPAM score californic report to the scoring brandoot's between

### **ORAM Summary Worksheet**

		circle answer or	1 2
		Score	Kesuit
Narrative Rating	Question 1 Critical Habitat	YES (NO)	If yes, Catagory 3
	Question 2 Threatened or Endangered Species	YES (NO	If yes, Calegory 3
	Question 3 High Quality Natural Welland	YES (NO	If yes, Calegory 3
	Question 4 Significant bird habitat	YES (NO	If yes, Category 3
	Question 5 Category 1 Wellands	YES (NO	If yes, Category 1.
	Question 6 Bogs	YES (NO	If yes, Category 3
	Question 7 Fens	YES (NO	If yes, Calegory 3
	Question 8a Old Growth Forest	YES (NO	If yes, Calegory 3
	Question 8b Mature Forested Wetland	_	If yes, evaluate for Category 3, may also be 1 or 2
	Question 95. Lake Ene Wetlands - Restricted	_	If yes, evaluate for Category 3, may also be 1 or 2
	Question 9d Lake Ene Wetlands Unrestricted with native plants		lf yes, Catagory 3
	Question 96 Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3, may also be 1 or 2
	Question 10 Oak Operangs	YES (NO	If yes, Category 3
	Question 11 Relict Wet Praines	YES (NO	If yes, evaluate for Category 3, may also be 1 or 2
Quantitative Rating	Metric 1 Size	0	
•	Metric 2 Buffers and surrounding land use	6	<b>*2</b>
-	Metric 3. Hydrology	20	
	Metric 4 Habitat	16	
	Metric 5 Special Welfand Communities	0	
	Metric 6 Plant communities, interspersion, microtopography	3	
	TOTAL SCORE	48	Category based on score breakpoints  Category 2

Complete Wedand Categorization Worksheet.

## Wetland Categorization Worksheet

Cholces	Circle one		Evaluation of Categorization Result of ORAM
Did you arrawer Tes to any	75.0	Ş	Is quantitative rating score less than the Category 2 scoring
of the following questions		)	threshold (excluding pray zone)? If was nervaluate the
	Wedand is	)	Calculate and and rejust he parather policy in O.S.
Manualter Daffer, Man o &			
Noriginal Party J. S.	Callegorizado as a		KING 5/40-1-04(C) MIC DOODICE MICOL INCOME
4, 5, 7, 69, 90, 10	Category 3 wetland		essessments to determine if the welland has been over-
		(	categorized by the ORAM
Did you answer "Yes" to any	YES	(ON)	Evaluate the wetland using the 1) namative criteria in OAC
of the following questions		)	Rule 3745-1-54(C) and 2) the quantitative rating score. If
	Wolfand should be		note: Seether 2 seconds a set of bookmakes at regular arts
Merrothe Dating Mac 4 Sh	and product		The manual of the control of the con
MANAGEMENT OF THE PARTY OF THE	A SHIRING NO.		WITHER OF THESE, R SHOULD BE CAREGONZED BY A LARGONY S
E 18	possible Category		wetland. Detailed biological and/or functional assessments
	3 status	(	may also be used to determine the wetland's category
Did you answer "Yes" to	- K	Q.	Concept of the Constitution areas and Content authorities to at
		)	economity throughout (motordon pay only 2000)? House
Manufilm Dalles Mr. C.	Market St.		some of an agentual is a result of the state
NATIONAL PARTY NO. 0			reevaluate the category of the wettend taking the narrative
	Categorized as a		criteria in OAC Rule 3745-1-54(C) and biological and/or
	Category 1 wedand		functional assessments to determine if the wetland has
	(		been under-categorized by the ORAM
Does the quantitative score	(YES)	ON	If the access of the western is located within the access of
fall within the according rende	<u>)</u>	_	the proof of the p
And the Contract of the Contra	1		Tanga in a paramin rangary, are morally should
Charles Latery 1, 2, tr 5			essigned to that category In all tracarcas however, the
wedand?	assigned to the		namative criteria described in OAC Rule 3745-1-54(C) can
	monoriale		be used to clarify or chance a peteronization based on a
	colemny hosed on		disolitation appear
	the American manage		demonstrate service.
Doge the quantifolish score	THE STATE OF THE PARTY OF THE P	(	
full with the "new roots" for		)	TOTAL THE CHICAGO IN
the wall time Way April 10	,	)	ou me two categories of to assign a category based on the
Catagory 1 of 2 of Lategory	Wetend I		results of a nonreptid wettend assessment method, e.g.
2 or 3 wettends?	essigned to the		functional assessment, biological assessment, etc., and a
	higher of the two		consideration of the harrative criteria in OAC rule 3745-1-
	calegories or		(2)
	assigned to a		Matro
	contagged breast on		
	detailed		
	Basesaments and		
	and their bow		
Does the sepland otherwise	VES	(2	A see that the second s
Constitution and an area	2	2	A WELSKILL THEY DE LEICHTCHISTOTICE LISTRE UTS THEUXUL DUT
EXISTRI FECCENCE CAN SUSPENCE		; ]	BUIL EXCHOLL ONE OF ITIONS SUDENIC TUNCHOOR, E.G. S. WESTEND'S
hydrologic OR habitat, OR	Wetand was	Wettendia	blotic communities may be degraded by human activities,
recreational functions AND	undercalegorized	assigned to	but the wetland may still exhibit superior hydrologic
the wetland was not	by this method A	category as	functions because of its type, landscape position, size, local
categorized as a Category 2	written justification	determined	or regional eignificance, etc. In this circumstance, the
wedand (in the case of	for recategorization	24	namative criteria in OAC Rule 3745-1-54(CN2) and (3) are
moderate functions) or a	should be provided	ORAN	condrolling and the under-category sation should be
Category 3 wettend (in the	on Background		corrected. A written last fination with supporting gasons or
case of superior functions) by	Information Form		information for this delarmination who let he provided
this method?			Territord an execute incommunity and the incommunity

	Category 3
Final Category	Category 2
	Category 1
į	Choose one

End of Ohio Rapid Assessment Method for Wetlands.

#### Background Information

Name Laura Sayre	
Date: 04/30/2015	
Affiliation EnviroScience Inc.	
Address 5070 Stow Road, Stow, Ohio 44224	
Phone Number 330-688-0111	
e-mail address. LSayre@EnviroScienceInc.com	
Name of Wetland: W-15	
Vegetation Communit(les) PEM	
нGм Сизи(на). Riverine/Depressional	<u>l</u>
Location of Westund Include map, address, north arow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
and in the second secon	-80 716099
USGS Quad Name	West Point
County	Columbiana
dhysusy.th	Yellow Creek
Section and Subsection	
Hydrologic Unit Code	#05030101
Site Viell	04/30/2015
Netional Wetand Inventory Map	×
Oho Welland Inventory Map	
Soli Survey	×
Delineation report/map	×

Wetland Size (acres, hectares). 0,158 acres onsite	
Skeich, include north arrow, relationship with other surface waters, vegetation zones, etc.	nes, etc.
Please refer to site wetlands and water resources map.	
Comments, Narative Discussion, Justification of Catagory Changes	
Final score: 23	Category: 1

### Scoring Boundary Worksheet

INSTRUCTIONS The minal step in completing the ORAM is to identify the "scoring boundaries" of the welland being rated. In many instances this determination will be reliatively easy and the scoring boundaries will consisted with the "junisdictional boundaries." For example, the scoring boundary of an solitated entail marsh located un the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as result after definitional boundaries in other instances, and several, the scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries often form large compliques are as of heterogeneous completes of wetland an upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland in determining a wetland's scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like properly fence, and call and enhalmations; wetlands that are contiguous with a streams, lakes, or rivers, and estuame or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clanification of the appropriate socining boundaries of a particular wetlands.

	Stabe in property establishing accorded houndaries	doors?	not excellentle
Step 1	Identify the wetland area of interest. This may be the suts of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the incentors where there are physical evidence that hydrology changes acted. Such evidence haddes both netters and thurst-hadred changes including, constrictions caused by berne or disea, points where the water workly changes rapidly at anciet or falls, points where significant inflows occur at the confluence of hiers, or other factors that may restrict hydrologic interaction between the wetlands or perts of a single wetland.	×	
Step 3	Delineate the boundary of the reveland to be rated such that all areas of interest that are configures in each which the sense where the hydrology does not change lighthearity. Le areas that have a high degree of hydrologic Meraction are included within the scorting boundary.	×	
Step 4	Determine If artificial boundaries, such as property inses, state lines, master, alliched entaminents, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.	×	
g detg	In all indexnose, the Pater may enlarge the rectmum exocing boundaries discussed here to some together wellands that could be acone apparately		×
Step 6	Consult ORAM Manual Section 5 6 for how to establish acoding boundaires for wellands that form a patchwork on the landscape, alivides boundaries, configuous to streams, lakes or rivers, or for dual dissentiations.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature and by submitting a Data Services Request to the Ohio Department of Natural Resources. Division of Natural Acres and Preserves. Natural Heritage Data Services, 1889 Founism Square Court, Building F-1, Columbus, Ohio 43224, 614-265-5435 (phone), 614-265-3096 (fix.), http://www.dir.salte.ohi.ss/diago. The renamining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wedland types. Note "Critical habital" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a lasted species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Hendquarters or the Columbus Ecological Services Office for updates as to whether critical habital has been designated for other federally listed threatened or endangered species. "Documented" means the welland is listed in the appropriate State of Ohio database

*	Ousefiers		
•	rangenou.	Curde one	(
-	Critical Habitat. Is the wettand in a township, section or subsection of a United States Geological Survey 7.5 mixute Chacternie that has	YES	<u></u>
	been designated by the U.S. Fish and Wildlife Service se "critical	Wedand should be	Go to Question 2
	habitat" for any threatened or endangered plant or animal species?	evaluated for possible	
	Note: as of January 1, 2001, of the federally listed endangered or threelened energies which you be twent in Only, the Indiana Set has	Celegory 3 status	
	And others have a particular the control of the con	Confloation 2	
	has had critical habitat proposed (65 FR 41812 July 6, 2000)		(
2	Threatened or Endangered Species. Is the wettend known to contain	YES	(NO)
	Figure Intervious Of, of Cocamenied occumences of federal of state-taked. Threshound or southerned of sections.	Wethord is a Cohomor	) to the state of
		3 weltand	
60	Documented High Quality Wetland, is the wetland on record in	Go to Cuestion 3	(ON)
	Natural Heritage Database as a high quality wettand?		)
		Wetland is a Category 3 wetland	Go to Question 4
		Go to Question 4	(
Į.	Significant Breeding or Concentration Area, Does the wetland	YES	ON ON
	contain documented regionally significant breeding or nonbreeding	:	)
	waterfow, neotropical songolid, or shorebird concentration srees?	Wetland is Category  3 wetland	Go to Question 5
-	Catherine & Works and a little section of land the Anna Same	VEG	
,	in size and hydrologically isolated and either 1) conversed of	2	<b>2</b>
	vegetation that is dominated (greater than eighty per cent areal cover)	Wettand is a Category	Go to Question 6
	by Phalents anunchaces, Lythum seatents, or Phragmites australis, or	1 wedand	
	2) An excise pond cheated of excavaled on mined lands that has little of	a wollend	
	Comment of the continue manifestation of the continue of the c	GO TO CAUGOTON O	
•	Poges. Note wedgen a page-economicality websito that 1) rasing a confident inflower or outflower. 2) autocode, economic mosawe.	2	<b>2</b>
	particularly Sohagrum spo., 3) the addophilic mosses have >30%	Wedand is a Category	Go to Question 7
	cover, 4) at least one species from Table 1 is present, and 5) the	3 wettand	
	COVER OF INVESTIVE REPORTED FOR 1) IN <25%?	Go to Creation 7	
-	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that	YES	ON
	is saturated during most of the year, primarily by a discharge of free		)
	Nowing, mineral rich, ground water with a circumneutral ph (5.5-9.0)	Wedand is a Category	Go to Question 8a
	From with one of more plant appeals listed in 180/e 1 and the cover of the progress and the cover of	S Wedend	
		Go to Question Ba	(
3	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	(ON)
	forest characterized by, but not limited to, the following characteristics		)
	oversiony canopy trees of great age (exceeding at least 50% of a	Welland is a Category	Go to Question 35
	projected maximum attentions ago for a species), tide of no evidence of human-cases, tide of no evidence.	3 wedand.	
	years, an aft-aged structure and multilayered canopies, aggregations of	Go to Question 8b	
	cenopy trees interspersed with caropy gaps, and algorificant numbers of standard date and downed love?		
-	I selection of the series of t		

S

3	Mature forested wedands. Is the wedand a forested wedand with 50% or more of the cover of upper forest canopy consisting of	YES	(NO
	declobous trees with large diameters at brass height (dbh), generally diameters greeter than 45cm (17 Tin) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question Sta
		Go to Question 9a	(
3	Lake Erle coastal and tributary wellands. Is the welland located at	YES	<u>∞</u>
	elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
g	Does the welland's hydrology result from measures designed to prevent erosion and the loss of equalic plants. Let the welland is	YES	S.
	partially hydrologically restricted from Late Erie due to lakeward or landured alices or other hydrological promoted.	Wetland should be	Go to Question 9c
	Services to color injuries to color to	Calegory 3 status	_
		Go to Cuestion 10	
å	Are Lake Erie water levels the wettend's primary hydrological influence, in the watering is hydrologically presented of the lakeward or include	YES	ON.
	border attentions), or the wettand can be characterized as an	Go to Question 9d	Go to Question 10
	estuerne wetland with lake and hver influenced hydrotyy. I hese include sandar deposition wetlands, estuarine wetlands, retre mouth wetlands, or those dominated by submissed anuatic verdeation.		
ä	Does the wetland have a predominance of native species within its	YES	NO.
	vegelation communities, although non-native or disturbance tolerant		
	hative species can also be present?	Wedend is a Calegory 3 wetland	Go to Question 98
		Go to Question 10	
3	Does the welland have a predominance of non-native or disturbance between native riders are section.	YES	ON .
	I CONTROL I CONTROL I CONTROL I CANT	Wedand should be	Go to Question 10
		evaluated for possible Category 3 status	
		Go to Question 10	(
5	Lake Plain Sand Prairies (Oak Openings) is the westend located in Lucas, Fulton, Henry, or Wood Counties and can the westend be	YES	<u></u>
	characterized by the following description. the wettend has a sandy	Wetland is a Catagory	Go to Question 11
	ecuadade with Energyersed organic matter, a weter table order within several inches of the surface, and often with a dominance of the	S Wetlend	
	grammeous vegetation listed in Table 1 (woody species may also be	Go to Question 11	
_	present, The July Department of Neutral Resources Division of Natural Areas and Preserves can provide assistance in confirming this		
ļ	type of wetland and its quality		
=	<ul> <li>Kelict Met Praines is the welland a raid wet praine community dominated by some or all of the species in Table 1. Extensive praines.</li> </ul>	YES	<u></u>
	were formerly located in the Darby Plaine (Madison and Union	Wetland should be	Complete
	Counties), Sandusky Plains (Wyandol, Chawford and Marlon Counties), northwest Ohio (e.g. Erle, Huron, Lucas, Wood Counties),	evaluated for possible Category 3 status	Quentitative Rating
	and portions of western Chio Counties (e.g. Danke, Mercer, Mianni, Montgomery, Van Wert etc.).	Complete Quentitative Retina	
		Burney	

Invasive/excite app	fen spécies	bog species	Oak Opening species	wet prairie apecles
Ly thrum salicana	Lygadenus elegans var glaucus	Calla palustra	Carex cryptolepts	Calamagrostis canadensus
Myrtophyllum speculum	Cacalia plantagimea	Cares atlantica war capillaced	Cares lasiocarpa	Calamogrooms stricts
Natas minor	Carex flora	Corex echinote	Cana stricts	Carex atherodes
Phalanis arangwacea	Carex sterilis	Cares offersperma	Cladium marsocoides	Carex burdeness
Phragmates australis	Corea stricts	Cares trusperses	Calamarrostu stricta	Carex pellits
Polamogeion crispus	Deschampsia caestri tota	Chamaedanine calveulata	Colomorrostu conadensis	Carex sertion
Rammouther ficaria	Eleocharis rostellata	Decodor verticulatur	Owercus patheris	Gentlana andrewall
Rhammus frompuda	Eriophorum virializativatum	Eriophorum vergratoum		Melianthus prossesses rathe
Typha angustifolia	Gentramopals spo.	Larix laricing		stocker stratel
Typha zglawca	Lobella kaimii	Newspanthus mucronatus		Lysimackia awadriflora
	Parmassa glauca	Schechzenia palustria		Lythron alatan
	Potentilla fruncosa	Sphagnare app.		Presenthensum virginionum
	Rhamma aintfolia	<b>Увосиния выстосития</b>		Silphan terebanhanceum
	Rhynchospora capillacea	<b>Уассівінт соўтавазит</b>		Sorgenstran material
	Salix candida	<b>Уассінняя ахусоская</b>		Sparting pectings
	Solic myricoides	Woodwandsa virgensoa		Solidage raddellid
	Sales seriesuma	Xyris difformis		)
	Solidago oktoensis			
	Tofieldia glistinosa			
	ТУКІОСКІК магіцэныя			
	Distorben nationes			

End of Narrative Rating. Begin Quantitative Rating on next page.

Date: 4/30/2015	<b>1917</b> (3)	Connectivity, Score wit that apply  100 year thoughtein (1) Selvinean streamfairs and other human use (1) Selvinean streamfairs and other human use (1) Part of vertically principle of (e.g. brew), complex (1) Part of vertically principle of (e.g. brew), complex (1) Interiori Score one of all chief.  3 Servine to permaneth interdescharations (4) 3 Regularly humaned (2) 2 Selectoriely municipal (i.g. principle of (2))  2 Selectoriely municipal (i.g. principle of (2))	point source (nonstriments) Mitrograding mad bearfiff track desdying		atrizione la control estato e la control e l
ORAN v 5 o Pad Form Canaditative Rating Safes - Scattifield Fearus Interconnection Faculty   Raterial L Savre	A Metric 1. Wetland Area second section in the control of the cont	12 18 Metric 3. Hydrology.  ma 30 pa.  Laboral 3a Survey of Warfer Score at he stopy  Hoby by groundware (5)  Other groundware (5)  Other groundware (7)  Second Married at New York of the Score of the Stopy  Second Married at New York (9)  Second Married at New York (15)  Second Married (15)  Second Ma		Metric 4. Habitat Alteration and Development.  The Statute delugence. See on or doubt chack and everge  Second (3)  As President (3)  As President (7)  As President (7)  Very pool (8)  A Modernest (9)  A Modernest (9)  A Modernest (90)  A Moderne	Money of the Control of the Contro

ORAM v 5 0 Fleid Form Cuantitative Rating

Site:			Rater(s): L.Sayre	Date: 4/30/2015
	Ì.			
27				
subtolsi fra pag	721			
0 27	Metric	Metric 5. Special Wetlands.	nds.	
mak 10 pts. euglobia	Checker	Check all that apply and score as indicated.		
		Bog (10)		
		Fen (10)		
		Old growth forest (10)		
		Meture forested wettend (5)		
		Lake Erle coustai/Infortery welf	Lake Erle coustai/fributary wetland -unrestricted hydrology (10)	
		Lake Erle coastal/Orbutary westend-testricied involvations (5)	and-restricted twichology (5)	
			, , , , , , , , , , , , , , , , , , , ,	
			fort fathered	
		Holict Wet Prantes (10)		
		Known occumence state/ledera	Known occurence state/federal finestened or endergered species (10)	
		Significant migratory congoints	Significant migratory songoins/water fow! habited or usage (10)	
		Category 1 Wedland. See Qua	Calegory 1 Wetland. See Question 1 Qualitative Ruting (-10)	
-	Materia	. A Disat commit	Motele & Diant commissibles interspected microtonography	the state of the s
4 4 53	A Vertical	Se Westerd Veneration Communities	Vectoria Community Court	iotopograping.
	Soore	Score at present using 6 to 3 scale	0	Absent or comprises <0 1hs (0.2471 ticres) contiduous area
		Anuale had		Present and either comprises areal part of welland's vegetation and is
	\		-	of moderate quality of comprises a significant part but is of low quality
	<u> </u>			Present and either comprises about and asked of sector of the
	-	ques.	N	and its of moderate quality or comprises a small part and its of high
		Forest		quality
		Muchinia	•	Present and comprises algorificant part, or more of wedends accordation and is of initial results.
		Open Water	•	South which the state of the second day
		6		
	Sp. Horizo	Bb. Horizontel (plen view) Intersperaton.	Namethre Description of Vegetation Guality	tation Guality
	Score orny one.	90		Low app diversity and/or predominance of nonnetive or disturbance
		Hgh (5)	\$	tolerant native species
		Moderately Night (4)	mod	Native app are domerant component of the vegetation, athough
		Moderate (3)		normalities and/or distributes tolerant mittee typican also be present, and sourcise diversity modernts to modernish high, his consumity wis
		Martin and Applications (7)		projectes of rare, threatened, or endangered app
		/	Hold	A tradominance of rathe species, with represive are analysis
	-	(£)	•	destributors trianger, nettre upp streem to wheely shapen, and high
		None (0)		app diversity and often, but not always. The presence of rare,
	BC C045	Sc. Coverage of investive plants. Refer to	name at	breathand, or endempered top
	destact non	table 1 choose and point for sec. And of factors for the constants.		Absent 50 the (1727) some
		Extensive >75% cover (-6)		1 cou 0 1 to 4 the 40 247 to 2 47 acres)
		(~) MACO N. C CZ BIBLIANON		(TALOR DO A CE 14-2) BUYEN OR E ANELLACOM
		Sparse 5-25% cover (-1)	6	High 4ha (9 86 ecres) or more
	0	Nearly absent <5% cover (0)	Microbpography Cover Scale	
		Absent (1)	0	Absent
	Schramman	8d. Microtopography Serve all present pains () to 3 scale		Alleno je ujezjem jo uodunoo egom ji zo stanome jieme kask iji treeske
	•	) 3		
	-	Comme whoole destrict a 15cm (Birt)	~	Present in modernie amounts, but not of highest quality or in small amounts of highest quality.
	٥	Sendon deed > Xcm (10to) 4th		
		Armshipten frameding mode	•	ullim to hearboard by how who were a share on at evaluation of branched
Г	,]	and discount of the state of th		The property of the property of the same and the property of t
23 GRAN	S TOTA	GRAND TOTAL (max 100 pts)		

to the most recent ORAM score saltreton report for the scoring breatpoints between saltretoning address: http://ego letes.ht.unidess/400 (Jenni

## ORAM Summary Worksheet

		Kesult	If yes, Category 3.	if yes, Category 3.	If yes, Category 3	If yes, Category 3	If yes, Category 1	If yes, Category 3	if yes, Catagory 3.	If yes, Category 3	If yes, evaluate for Category 3, may also be	If yes, evaluate for Category 3, may also be 1 or 2	If yes, Category 3	If yes, evakuate for Category 3, may also be 1 or 2	If yes, Category 3	if yes, evaluate for Category 3, may also be 1 or 2	T 25. %						Category based on score breakpoints  Category 1
circle	answer or	Insert score	YES (NO	YES (NO)	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	YES (NO	YES (RO	_	YES (NO	YES (NO	YES (NO	YES (NO	0	9	12	6	0	4	23
			ung Question 1 Critical Habitat	Question 2 Threatened or Endangered Species	Question 3 High Quality Natural Weltand	Question 4 Significant bird habitat	Question 5 Category 1 Wetlands	Question 6 Bogs	Question 7 Fens	Question 8a Old Growth Forest	Question 8b Mature Forested Wetland	Question 9b Lake Ene Weilands - Restricted	Question 9d Lake Erie Wellands Unrestricted with native plants	Question 9e Lake Ene Wetlands - Unrestricted with investive plants	Question 10 Oak Operungs	Question 11 Relict Wet Prairies	Metric 1 Size	Metric 2 Buffers and surrounding land use	Metric 3 Hydrokogy	Metric 4 Habrial	Metric 5 Special Wetland Communities	Metric 6 Plant communities, interspersion, microtopography	TOTAL SCORE
			Namative Rating													i	Quantitative Rating	•					

Complete Wetland Categorization Worksheet,

# Wetland Categorization Worksheet

Choices	Circle one		Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any	YES	NO.	is outsitiative rating some lass than the Caladony 2 account
of the following questions.	!	)	Preshold (archafing gray zone?? If we, reevolusts the
•	Wellend in	)_	category of the wottend union the negative criticals in OAC
Nametive Rating Mos 2 3	Categoritzad Be a		Puls 3745-1-54/C) and Melocinal souths functional
4, 6, 7, 8a, 9d, 10	Category 3 wetland		assessments to determine if the wetland has been over- celement by the ORAM
Did you snawer "Yee" to enu	VE G		And of a section of the section bandons and section 2
of the following cuestions.	3	)	Rule 3745, 4:54(C) and 2) the cuentisties rather again.
	Welfand should be		the wetland is defermined to be a Category 3 wetland is for
Nametive Rating Nos. 1, 8b.	evaluated for		expressions occurrence to be excepted a section of the second sections of the section sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the section sections of the section sections of the section sections of the section sections of the section sections of the section sections of the section sections of the section section section sections of the section section section sections of the section section section sections of the section section section section sections of the section section section section sections of the section section section section sections of the section sectio
9b, 9d, 11	possible Category		wedand. Detailed biological and/or functional assessments
	3 status	(	may also be used to determine the wetland's category
Did you answer "Yes" to	YES	(ON )	is quentitative rating score greater than the Category 2
:		)	aconing threshold (including any gray zone)? If yes,
Narrative Rating No. 5	Welland Is		reevaluate the category of the wetland using the narrative
	cetegorized as a		criteria in OAC Rule 3745-1-54(C) and biological and/or
	Category 1 wedand	_	hirotonal assessments to determine if the wetland has been index-asteonized by the ORAM
Does the quantitetive score	YES	9	If the score of the wettend at located within the score
fall within the accrino range	)	!	ed thanks breitisher contents wertland about the
of a Category 1, 2 or 3	Welland is		assistand to that calegory. In all instances however the
wotherd?	att of bacocione		namely as a state of the State
	and of the same		THE BUILDING COLOR TO BE SHOULD BE S
	deligation booked on		De used to carrily or triange il categorization besied on a
	the scoring more	1	תיים וווידיקת ביירות:
Does the Quantitative score	YES	ON ON	Rater has the ordion of assigning the welface to the higher
fall with the "gray zone" for		)	of the two categories or to assion a category based on the
Category 1 or 2 or Category	Wetland is		results of a nonracid wetland assessment method. • 0
2 or 3 wetlands?	assigned to the		functional assessment historical assessment at and a
	higher of the two		consideration of the namative cateria in OAC rule 3745-1-
	Categories of		540.
	Bisagned to a		
	category based on		
	detailed		
	assessments and		
	the namative		
Does the well and otherwise	VES		A very large and private property and property and property and the first feet and the feet and
extribit moderate OR superior	}	)	afile activity one or more authority fractions and a manufacture
hydrologic OR habitat OR	Walland was	Wedlend is	built come, with most purposed to human activities
recreational functions AND	Indometerorizari	of bending	before contributed that the contraction by regulation.
the wedand was not	by this mathod		functions because of its harm incidences contiton alter local
categorized as a Category 2	written justification	determined	or reciprosition for the circumstance the
wedant (in the case of	for receivered adjoin	4	nameline milede in OAC Bule 3745-1-54/C1(2) and (3) are
moderate functions) or a	should be copyrided	OPAN	controlling and the undercatechalters should be
Category 3 westland for the	on Backonsond		Commented A widthen has bloom with a procedure mesons on
casa of superior functions) by	Information Form		infrarration for this defermination size of the consider
this method?			ATTOMINED TO THE COMMITTENESS BASICAL DE PROVIDE

	Category 3
inal Category	Category 2
E	Catagory 1
	Choose one

End of Ohio Rapid Assessment Method for Wetlands.

## **Background Information**

Name Brian Slaby	
Date 04/29/2015	
Affliation EnviroScience Inc.	
Address 5070 Stow Road, Stow, Ohio 44224	ļ
Phone Number: 330-688-0111	į
•-nail address BSiaby@EnviroScienceInc.com	
Name of Wetland: W-16, W-17	
Vegetation Communit(ies) PEM	
Hom Class(es) Depression	
Location of Wetland include map, address, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
LavLong or UTM Coordinate 40.640622, -80.7093, 40.640604,	-80.70874
USGS Qued Name	West Point
County	Columbiana
Township	Yellow Creek
Section and Subsection	
Hydrologic Unit Code	#05030101
Skie Visit	04/29/2015
National Wetand Inventory Map	×
Ohio Wetland Inventory Map	
Soil Survey	×
Delineation report/map	×

1-17		
Wetland Size (acres, hectures) Total 0.844 acres onsite		
Sketch Include north arrow, rehtlingship with other surface waters, vegelation zones, etc. Please refer to site wetlands and water resources map	tones, etc.	
W-16. 0.139 acres onsite W-17. 0 706 acres onsite		
Comments, Narrative Discussion, Justification of Category Changes		
Final score: 43	Category:	Modified 2

### Scoring Boundary Worksheet

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INSTRUCTIONS The mutual step in completing the ORAM is to identify the "scering boundaries" of the welland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattain marth located in the module of a farm field will likely be the same as that welland is jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wellands that are small or solated from other surface waters often form large configuous areas of heterogeneous complexes of welland and upland. In separating wellands for scoring purposes, the hydrologic regime of the welland is the main criterion that should be used. Boundaries between configuous or connected wellands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a range welland. In determining a welland is scoring boundaries in the DRAAM Manual Section 5 0. In certain matances, at may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wellands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fence, roads, or rationed embalariments, wellands that a contiguous with a streams, and estuarine or costait wellands. These situations are discussed below, bowever, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular welland.

2	Staps in properly establishing accring boundaries	done?	not applicable
Step 1	Kientry the welland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Stap 2	Identity the iocations where there is physical endeard that invitrology changes rapidly. Such evidence includes both matures and human-trolocad changes including, constitictions caused by berns or disea, profils where the water workly changes including the perms or disea, points where against inflows occur at the confluence of here, or other factors that may restrict hydrologic interaction between the wellands or parts of a single welland.	×	
Step 3	Deliveate the boundary of the restand to be rised such that all areas of interest which the configuration of interest of interest of charge stortificantly, te sees that have a high degree of hydrologic hieraction are included within the sooring boundary.	×	
Step 4	Determine It attitists broaderies, such as properly use, state intes, mass, remained enhancements, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.	×	
S dwys	In all instances, bie Kater may enkarpe the minmum scoring boundarine decuseed here to accer logicities wellends that could be accerd expertiely	×	
Step 6	Consult OPAM Manual Section 5 0 for how to setablish scoring boundaries for wellands that form a patchwork on the landscape, divided by artificial boundaries, configuous to streams, lakes or fivers, or for clust classifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

INSTRUCTIONS. Answer each of the following questions Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit of the firefure and by submitting a Data Services Request to the Ohio Department of Natural Heritage Data Services, 1889 Fourtain Squere Court, Building F.; Loumbus, Ohio 43224, fig. 42.65-4305 (fixs.), http://www.drx.slate.ohius/diag. The renamining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the occurrention of a listed species or as an area that may request parall management considerablosis or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally issted threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database

*	Chestion	Circle one	(
Ļ	Critical Habitat. Is the welland in a township, section, or subsection of a United States Cambridge Survey 7 & owning Charlesons that has	YES	(N)
	been designated by the U.S. Fish and Wildlife Service as "critical	Wetland should be	Go to Question 2
	habitef for any threatened or endangered plant or enimal species?	evaluated for possible	
	Note 88 Of January 1, 2001, of the lederally listed endangered or threatened enactes which can be found in Ohio the Indiana Bot has	Category 3 status	
	had critical habitat designated (50 CFR 17 86(a)) and the piping plower	Go to Question 2	
•	has had critical habital proposed (65 FR 41812 July 6, 2000)	7/10	
,	I finationed of Endangeled Species. Is the welland known to contain on hollothise of or documented occurrences of federal or state-listed	ĘŠ	<u></u>
	threatened or endangered plant or enimal species?	Wetland is a Calegory	Go to Question 3
		THE COLUMN TO	
<b>67</b>	Documented High Quality Wettand. Is the wetand on record in	YES YES	(ON)
	Natural Morttege Detabase se m high quality wetland?	Wedland is a Category	Go to Question 4
		3 wetland	
Ţ		Go to Question 4	
•	Significant Breeding or Concentration Area. Does the welland contain documented extremally significant breeding or produced in	YES	<u></u>
	waterfowf, neotropical songbird, or shorebird concentration areas?	Wetland is a Category	Go to Question 5
		THE PARTY OF	
		Go to Question 5	
	Category 1 Wetlands is the wetland less than 0.5 hacteres (1 acre) in size and hydrodecically lead than 3 completed of	YES	(N)
	vegetation that is dominated (greater than eighty per cent areal cover)	Wetland is a Category	Go to Question 8
	by Phelenis arundinaces, Lythrum saliceria, or Phregmites australis, or 21 an additional charte in a secured on mined lands that has little or	1 wetland	
	no vegetation?	Go to Question 6	
9	Bogs. Is the weitend a peer-accumulating weitend that 1) has no	YES	(ON)
	agrancian imove of cubicves, 2) auppoins accopning mosses, nacticularly Sobsovers and 13 the according mosses have 530%.	Wetland is a Category	Go to Question 7
	cover, 4) at least one species from Table 1 is present, and 5) the	3 wetland	
	COVER OF INVESTIVE SIDECUSE (See 1 600 1) IN <2576	Go to Question 7	(
7	Fens. Is the weltand a carbon accumulating (peat, muck) welland that	YES	(ON)
	flowing, mineral rich, ground water with a circumstration (5.5-9.0)	Wetland is a Category	Go to Question Ba
	and with one or more plant apecies listed in Table 1 and the cover of	3 wetland	
		Go to Question 8a	
2	"Old Growth Forest," Is the welland a forested wetland and is the	YES	(ON)
	overstory canopy trees of great age (exceeding at least 50% of a	Wetland is a Category	Go to Question 85
	projected maximum attainable age for a species); title or no evidence of human commend understand the section the past 80 to 100	3 wettand	
	years, an ell-aged structure and muttayered canones, aggregations of	Go to Question 8b	
	candy uses numbersed with cardy pape, and argumpary numbers of standing deed snags and downed logs?	-	

2	Mature forested wedands. Is the wedand a forested welland with 50% or more of the cover of upper forest cancov consisting of	YES	ON)
	deciduous trees with large diameters at breast height (dbh), generally demoters greater than 45cm (17 7m) dbh?	Wetland should be evaluated for possible	Go to Question 9a
		Catagory 3 status.	
		Go to Question Ba	
3	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation text than 575 feet on the USCS man, adjacent to this	YES	<u></u>
	elevation, or along a tributary to Lake Eria that is accessible to fish?	Go to Question 9b	Go to Question 10
96	Does the welland's hydrology result from measures designed to present errains and the lase of equalic plants, i.e. the welland in	YES	ON.
	partially hydrologically restricted from Lake Erie due to lakeward or	Wetland should be	Go to Question 9c
	landward dikes or other hydrological controls?	evaluated for possible Category 3 status	
		Go to Question 10	
y	Are Lake Ene water levels the wetland's prmary hydrological influence.	YES	Q.
	Le une westand is hydroxycatly un estimated (no lakawar of upland border alteratoris), or the westand can be characterized as an	Go to Question 9d	Go to Question 10
	"estuarine" wetland with lake and river influenced hydrology. These include sendore deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by autonomed anastic vecestion.		
3	Does the welland have a predominance of native apactes within its	YES	SE SE
	vegetetion communities, although non-native or disturbance tolerant	Made and in a Colombia	d of of
		3 wedand	ad lighteenth man
		Go to Question 10	
å	Does the welland have a predominance of non-native or disturbance	YES	Q.
	PROPERTY CHARLES OF THE PROPERTY OF THE PROPER	Wetland should be evaluated for possible	Go to Question 10
		Colo Distribution 40	
10	Lake Plain Sand Prairies (Oak Openings) is the welland incuted in	YES CURRENOT IV	
!	Lucas, Fulton, Henry, or Wood Counties and can the welland be		)
	characterized by the following description: the weltand has a sandy substrate with interspersed organic matter, a water table often within	Wetland # a Catagory 3 wetland	Go to Question 11
	several inches of the surface, and often with a dominance of the		
	grammacus vegestudor integra i (wudor) species may see de present). The Othio Department of Natural Resources Division of	Co to coesaco u	
	Natural Areas and Preserves can provide assistance in confirming this tope of welland and its quality.		_(
Ξ	Relict Wet Prairies. Is the welland a relict wet prairie community	YES	ON
	Commated by some or all of the species in Table 1. Extensive prairies	Worthand about die	) ()
	Counties) Sendusky Plains (Wyandol, Cawford, and Marion	eveluated for possible	Quantitative
	Counties), northwest Ohio (e.g. Erie, Murch, Lucas, Wood Counties).	Category 3 status	Rating
	Brid partons of western cyno Countes (e.g. Darks, werder, wastn), Montgomery, Van Wert etc.).	Complete Quantitutive Reting	