

Song Sparrow Solar ProjectWetland and Waterbody Delineation Report

February 1, 2024

Prepared for:

Song Sparrow Solar LLC 100 California St. San Francisco, California 94111

Prepared by:

Stantec Consulting Services Inc. 9200 Shelbyville Road Suite 800 Louisville, Kentucky 40222-5136

Sign-off Sheet

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Prepared by _____

(signature)

Chris Knabel, Environmental Scientist

Reviewed by

(signature)

Shane Kelley, Environmental Scientist

Approved by Ou 2 Carolin

(signature)

Lee Carolan, Senior Environmental Scientist

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1.0 INTRODUCTION

1.1 PURPOSE

The Clearway Energy LLC (Clearway). is proposing to develop the Song Sparrow Solar Facility (the "Project") within Ballard County, Kentucky. (**Appendix A, Figure 1**). The Project includes 1,405.4 acres of primarily upland and riparian forested areas and agricultural fields. Highway KY 358 runs north to south through the western portion of the Project and Highway KY 473 run north to south through the eastern part of the Project. The Project is located approximately 10 miles southwest of the city of Paducah, Kentucky.

Stantec Consulting Services Inc. (Stantec) was retained by Clearway to conduct a delineation of potential waters of the United States (WOUS), including wetlands, streams, waterbodies, and potentially isolated wetlands within the Project area. Wetlands that are considered WOUS are subject to regulation under Section 404 of the Clean Water Act (CWA) and the jurisdictional regulatory authority lies with the U.S. Army Corps of Engineers (USACE).

Stantec completed the delineation of wetlands and waterbodies from February 20-24, 2023, and February 28 through March 3, 2023. The information contained in this report reflects the current site conditions that were observed during the field delineation.

1.2 LOCATION OF PROJECT

The Project is located approximately 10 miles southwest of Paducah in Ballard County, Kentucky. The Project is within the Humphrey Creek watershed (HUC-12 051402060601) within the Lower Ohio watershed (HUC-6 051402). The Project is drained by Humphrey Creek and an unnamed tributary to Humphrey Branch. Humphrey Creek flows north through the central portion of the Project (Appendix A, Figure 1).

2.0 METHODS

2.1 WETLAND DELINEATION

Prior to completing the survey, a desktop review of the Project area was conducted using the LA Center, Kentucky USGS 7.5 Minute Series topographic maps (Appendix A, Figure 1), U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Soil Survey of Ballard County, Kentucky (USDA 1972) (Appendix A, Figures 3-5), the National Wetlands Inventory database (NWI [USFWS 2023]), the National Hydrography Dataset (NHD [USGS 2023]), and the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL [FEMA 2023]) (Appendix A, Figure 6), and aerial imagery mapping to assess the likelihood of occurrence and probable location of wetlands and waterbodies within the Project area. Delineated features are presented in Appendix A, Figures 7-12.

Stantec conducted field surveys within the Project area from February 20-24, 2023, and February 28 through March 3, 2023. Wetland boundaries were assessed using the "Routine On-site Determination Method" as described in the USACE Wetland Delineation Manual (USACE Environmental Laboratory 1987) and the Regional Supplement to the



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Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0) (USACE 2012). As of August 17, 1991, the USACE was directed to utilize the USACE Wetland Delineation Manual (USACE Environmental Laboratory 1987) to identify and delineate wetlands potentially subject to regulation under Section 404 of the CWA.

Wetlands were classified according to "Classification of Wetlands and Deepwater Habitats of the United States" (Cowardin et al. 1979). In this classification system, wetland habitats are divided into five major systems including: (1) Marine, (2) Estuarine, (3) Lacustrine, (4) Palustrine, and (5) Riverine. Each of these systems is further divided into subsystems, classes, and subclasses. Vegetative communities were inventoried to assess the dominant plant species in each of four vegetative layers: trees, saplings/shrubs, herbs, and woody vines. The wetland indicator status for each of the dominant species was obtained using the 2020 National Wetland Plant List (USACE 2020). The wetland soil indicators were obtained using the Munsell soil-color chart (Munsell Color 2009) and the hydric soil field indicators (USDA, NRCS 2010). The wetland boundary and sampling points were identified and surveyed using a handheld Global Positioning System (GPS) unit and mapped with Geographical Information System (GIS) software. Stantec collected data and completed relevant assessment forms, which included: USACE Wetland Determination Forms (WDF). Datasheets are provided in Appendix B.

2.2 STREAM DELINEATION

Streams that demonstrated a continuously defined channel (bed and bank), ordinary high-water mark (OHWM), and the disturbance of terrestrial vegetation were delineated within the Project area, per the protocols outlined in the USACE's Guidance on Ordinary High Water Mark Identification (Regulatory Guidance Letter, No. 05-05; USACE 2005). Delineated streams were classified as ephemeral, intermittent, or perennial per definitions in the 85 Federal Register 22250 (effective June 22, 2020). The centerline of each waterway, or both banks for streams 15 feet or wider, was identified and surveyed using a sub-meter accurate handheld GPS unit and mapped with GIS software. Potential waterways without a continuously defined channel (bed and bank), OHWM, or disturbance of terrestrial vegetation were considered upland drainage features.

3.0 OVERVIEW OF PROJECT AREA

3.1 GEOLOGY AND TOPOGRAPHY

The Project lies within the western portion of the Mississippi Embayment physiographic province of Kentucky. This region is relatively flat laying and contains numerous lakes, swamps, sloughs, and ponds. The Cretaceous, Tertiary, and Quaternary sediment consist of unconsolidated gravel, silt, sand, and clays that have been deposited by the Mississippi River. (KGS 2012). The Mississippi Embayment is part of the Western Mesophytic forest region described by Braun (1950). In the eastern section of the Mississippian Plateau where the Project is located, the slopes contain beech- (Fagus) dominated mixed mesophytic forest with oak (Quercus), oak-hickory (Q.-Carya), and oak-chestnut (Q.-Castanea) forest types on the drier slopes and ridges.



3.2 CLIMATE

The average February and March temperatures in Ballard County are 54 degrees Fahrenheit (F), and the average daily minimum temperature is 33 degrees F. The annual high temperature for Paducah is 68 degrees F and the annual low temperate is 47 degrees F. Precipitation in Paducah averages 49.08 inches per year. Most of the precipitation falls from April through July (U.S. Climate Data 2023). Ballard County experienced approximately 3.5 inches of precipitation during February 2023 in the month leading up to the fieldwork and an additional 0.3 inches throughout the field effort (U.S. Climate Data 2023).

3.3 SOILS

The Soil Survey of Ballard County, Kentucky (USDA 1972) and the NRCS Web Soil Survey were consulted to assess soil types within the Project area (USDA, NRCS 2010). A copy of the soil map is included in Appendix A, Figure 2. Soils within the Project area with respective acreages and percentages are included in Appendix C, Table 1. Five soil series listed within the Project area were considered predominantly hydric as shown in Appendix C, Table 1.

4.0 RESULTS

4.1 EXISTING CONDITIONS

Upland habitat within the Project area consists of forest areas, agricultural fields, and existing gravel farm roads. The agricultural fields appear to have been previously planted with soybeans (*Glycine max*) and corn (*Zea Mays*). Forest areas were dominated by southern red oak (*Quercus falcata*), red maple (*Acer rubrum*), sugarberry (*Celtis laevigata*), and black cherry (*Prunus serotina*). Dominant herbaceous plants in the forested areas included purple dead-nettle (*Lamium purpureum*), coral berry (*Symphoricarpos orbiculatus*), Japanese honeysuckle (*Lonicera japonica*), and couch grass (*Elymus repens*). The delineation was conducted during the early season with bare land post-harvest from the past season of growth.

4.2 WETLAND HABITAT

There were 39 wetlands identified within the Project area, totaling 4.80 acres (**Appendix A, Figures 7-12**). Of the 39 wetlands 28 are considered jurisdictional, totaling 4.03 acres. The jurisdictional wetlands include a mixture of Cowardin classes: 1.23 acres of palustrine emergent (PEM), 0.36 acres of palustrine shrub-scrub (PSS), 0.45 acres of palustrine forested (PFO), and 0.98 acres of PSS/PFO, 0.39 acres of PSS/PEM, and 0.63 acres of PEM/PFO. Of the 39 wetlands, 11 were considered non-jurisdictional. The non-jurisdictional wetlands include a mixture of Cowardin classes: 0.26 acres of PEM, 0.38 acres of PFO, and 0.12 acres of PSS/PEM. Appendix B contains the WDF for the wetlands identified within the Project area. Non-jurisdictional features on the site were typically found in upland forested areas and agricultural fields with no surface water connection to other jurisdictional features. Representative photographs of the wetland are provided in Appendix D. The wetlands are summarized in Appendix C, Table 2.



4.3 STREAM HABITAT

258 stream features were identified within the Project area, totaling 104,535.4.0 linear feet (**Appendix A, Figures 7-12**). Additionally, 25 non-jurisdictional upland drainage features were delineated within the Project, totaling 13,919.9 linear feet. These upland drainage features lacked the required features to be considered a stream and in general did not have a defined bed and bank and/or ordinary highwater mark throughout the reach but were mapped for siting purposes for solar panels. These features form on the landscape seasonally after crop harvest due to the slope of the landscape and bare soil after harvest. Of the 258 stream features, 72 were considered jurisdictional totaling 63,006.2 linear feet. The table of stream determination datasheets is found in Appendix B. Of the 258 stream features 186 were considered non-jurisdictional at a total of 41,577.7 linear feet. Representative photographs of the streams are provided in Appendix D. The streams are summarized in Appendix C, Table 3.

4.4 OPEN WATER HABITAT

Nine (9) open waters were identified within the Project, totaling 1.68 acres (**Appendix A, Figures 7-12**). Of the nine (9) open water features one (1) was considered jurisdictional, a total of 1.38 acres. The remaining eight (8) open water features were considered non-jurisdictional, a total of 0.30 acres. Representative photographs of the open waters are provided in Appendix D. The open waters are summarized in Appendix C, Table 4.

5.0 REGULATORY CONSIDERATIONS

Federal, state, and local permits or certificates that are potentially applicable to the Project are described below. The information provided is based on preliminary information on natural resources identified in the Project area and vicinity through Stantec's review of publicly available maps, applicable regulations, agency information, field survey, and Stantec's previous experience permitting projects in Kentucky. Consultation with federal, state, and local agencies may be necessary to further determine which permits may be applicable and/or required for the Project.

At the time of submittal of this report, "The U.S. Environmental Protection Agency and the U.S. Army Corps of Engineers are in receipt of the U.S. Supreme Court's May 25, 2023, decision in the case of *Sackett v. Environmental Protection Agency*. In light of this decision, the agencies are interpreting the phrase "waters of the United States" consistent with the Supreme Court's decision in *Sackett*. The agencies are developing a rule to amend the final "Revised Definition of 'Waters of the United States'" rule, published in the *Federal Register* on January 18, 2023, consistent with the U.S. Supreme Court's May 25, 2023 decision in the case of *Sackett v. Environmental Protection Agency*" (EPA 2023). The Jurisdictional Determinations presented in this report reflect what Stantec believes USACE will be considering going forward.

Clean Water Act Section 404 Permit

The Project may require authorization under the federal Clean Water Act (CWA) Section 404 for any proposed impacts to jurisdictional WOUS. The USACE regulates the discharge of fill material in WOUS, including wetlands, under Section 404 of the Clean Water Act (33 U.S.C. §1344), Section 10 of the Rivers and Harbors Act of 1899 (33



U.S.C. §403), and Section 103 of the Marine Protection Research and Sanctuaries Act of 1972 (33 U.S.C. §1413). Discharge of fill material includes digging, trenching, or equipment crossing of a jurisdictional waterbody.

The Project is located in the USACE Louisville District and may be eligible for NWP 51, and/or NWP 57, provided that all conditions of NWP 51, and/or NWP 57 are met. Project impacts to jurisdictional WOUS that result in permanent loss would need to be kept under 0.5 acre for both NWP 51 and NWP 57. If no permanent impacts for the Project are assumed, and all impacts to jurisdictional WOUS would be temporary in nature, compensatory mitigation would likely not be required. Compensatory mitigation would be required for permanent impacts exceeding 0.10 acre. A project restoration plan would be required as part of the USACE NWP 51 and/or NWP 57 application. If the Project impacts cannot meet the conditions of NWP 51 and/or NWP 57, an Individual CWA Section 404 Permit may be required from the USACE. Stantec assumes an Individual CWA Section 404 Permit will not be required from the USACE, as the Project is anticipated to meet all the conditions of NWP 51 and/or NWP 57. Typical timeframe for completing a draft of the PCN application would be approximately three (3) weeks. The review time by the USACE for this type of permit application is 45-60 days from when they receive a complete application. No fee is associated with this type of permit application. A pre-construction notification is not required if impacts are less than 0.10 acre.

Clean Water Act Section 401 Water Quality Certification

Section 401 of the CWA (33 U.S.C. §1344) mandates that a Section 401 Water Quality Certification (WQC) be obtained from the State of Kentucky prior to any discharge of dredged or fill material into WOUS. The Kentucky Division of Water (KDOW) administers the WQC program in Kentucky.

As indicated above, the Project may qualify for authorization by the USACE under NWP 51 and/or NWP 57, provided that the conditions of the permits are met and/or a waiver can be obtained. The KDOW has certified many of the USACE 404 NWPs by automatically granting state 401 WQC to activities covered under NWPs, provided that the project meets special limitations and conditions. If the Project impacts cannot meet the state conditions of NWP 51 and/or NWP 57, an Individual CWA Section 401 Permit may be required from KDOW. Stantec assumes an Individual CWA Section 401 Permit will not be required from the KDOW, as the Project is anticipated to meet all the state conditions of NWP 51 and/or NWP 57.

Clean Water Act Section 402 National Pollutant Discharge Elimination System (NPDES) Permit

For Section 402, construction sites with a disturbed area of one or more acres are required to either obtain individual NPDES permits for stormwater discharges or be covered by the Construction General Permit. In Kentucky, the Kentucky Energy and Environment Cabinet (KEEC) administers the National Pollutant Discharge Elimination System program, in compliance with NPDES guidelines, to issue a Construction General Permit (KYR10) which authorizes discharge of stormwater associated with construction activity. Submission of a NOI to KEEC is required and must be authorized prior to ground disturbing construction activities.

Each applicant under the Construction General Permit is required to prepare a Stormwater Pollution Prevention Plan (SWPPP) prior to the commencement of grading activities and implement the SWPPP during construction activities. The primary objective of the SWPPP is to identify, construct, implement, and maintain Best Management Practices (BMPs) to reduce or eliminate pollutants in stormwater discharges and authorized non-stormwater discharges from the construction site. BMPs may include programs, technologies, processes, practices, and devices that control, prevent, remove, or reduce pollution. The SWPPP would also address BMPs developed specifically to reduce



pollutants in stormwater discharges following the completion of construction activities. The review time by the KEEC for the NOI permit is 21 days and application fees will vary depending upon the total acreage of ground disturbance.

Floodplain Permit

A floodplain development permit may be required when construction activities consisting of above ground facilities or any ground disturbance occurring within a mapped Federal Emergency Management Agency (FEMA) special flood hazard area. Coordination with county and local officials will be required to determine the extent of consultation and permits that will be required when working within their jurisdiction.

Stantec used the Federal Emergency Management Agency (FEMA) Flood Map Services Center website to identify floodplain boundaries within the Project area. FEMA regulates development within floodplains and requires permits for development within the 100-year flood zone. Stantec downloaded preliminary floodplain data for Ballard County from the FEMA Flood Map Services Center. This map data is provided on Figure 3 in Appendix A. 168.49 acres of the Project area is in the 100-year floodplain the majority of which being centered around Humphreys Creek watershed. Clearway should consult with FEMA and/or Ballard County if development is planned to take place within the 100-year flood zone.

6.0 CONCLUSION

Stantec conducted a delineation of potential WOUS within the Project area located in Ballard County, Kentucky. The purpose and objective of the wetland and waterbody delineation was to identify the extent and location of potential jurisdictional wetlands and waterbodies within the Project area.

28 potential USACE-jurisdictional wetlands, totaling 4.03 acres, 72 potential USACE-jurisdictional streams, totaling 63,006.2 linear feet, and one (1) potential USACE-jurisdictional open water feature, totaling 1.38 acres, were identified.

Stantec's opinion regarding the presence/absence of jurisdictional WOUS and isolated is preliminary. Only the USACE can provide an official determination of the presence and extent of jurisdictional WOUS. Wetlands that are considered WOUS are subject to regulation under Section 404 of the CWA and the jurisdictional regulatory authority lies with the USACE. Stantec recommends that Clearway contact the USACE Louisville District for final jurisdictional review and concurrence with Stantec's opinion regarding the presence/absence of WOUS within the Project area prior to construction activities associated with this Project.



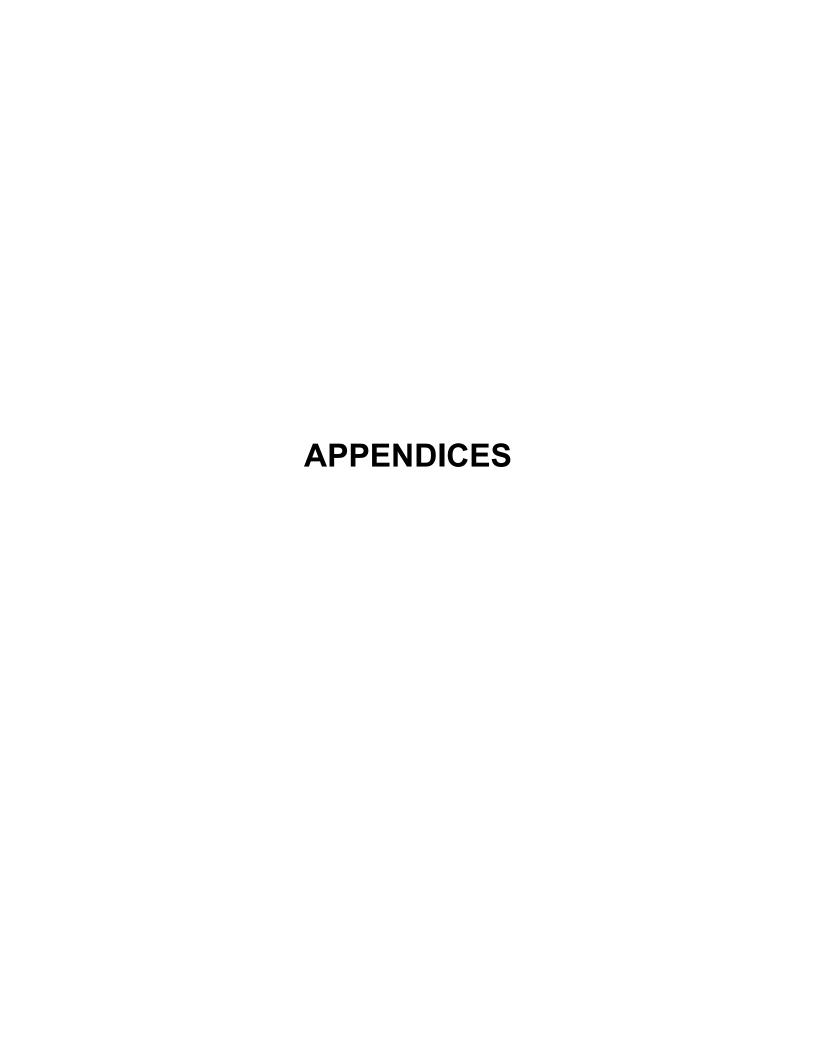
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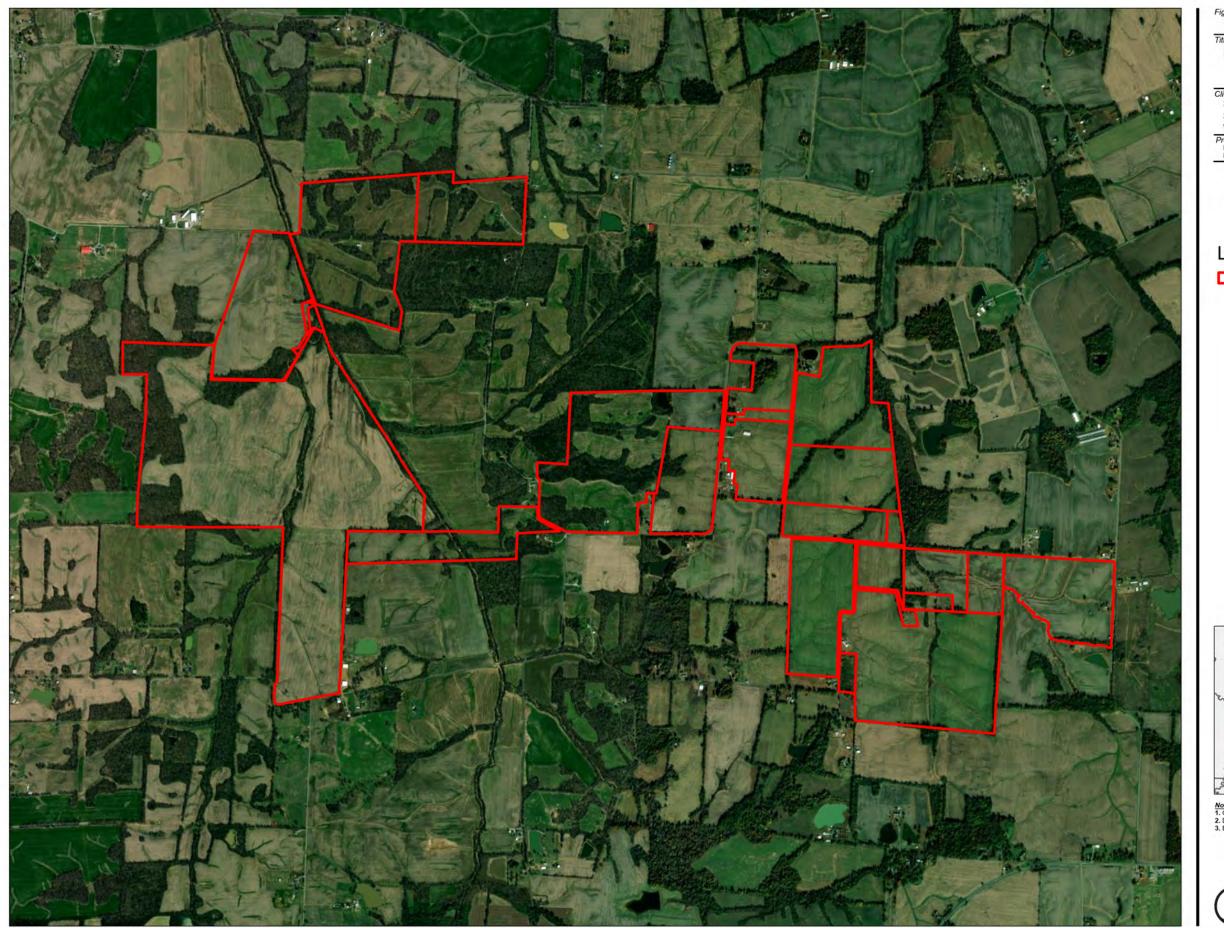
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Appendix A FIGURES





Project Area Map Client/Project
Song Sparrow Solar LLC
Song Sparrow Solar Project
Wetland and Waterbody Delineation Report Project Location Ballard County, Kentucky Prepared by MNA on 2024-02-01 TR by CMK on 2024-02-01 IR by SPK on 2024-02-01 3,500 (At original document size of 11x17) 1 inch = 1,750 feet

Legend

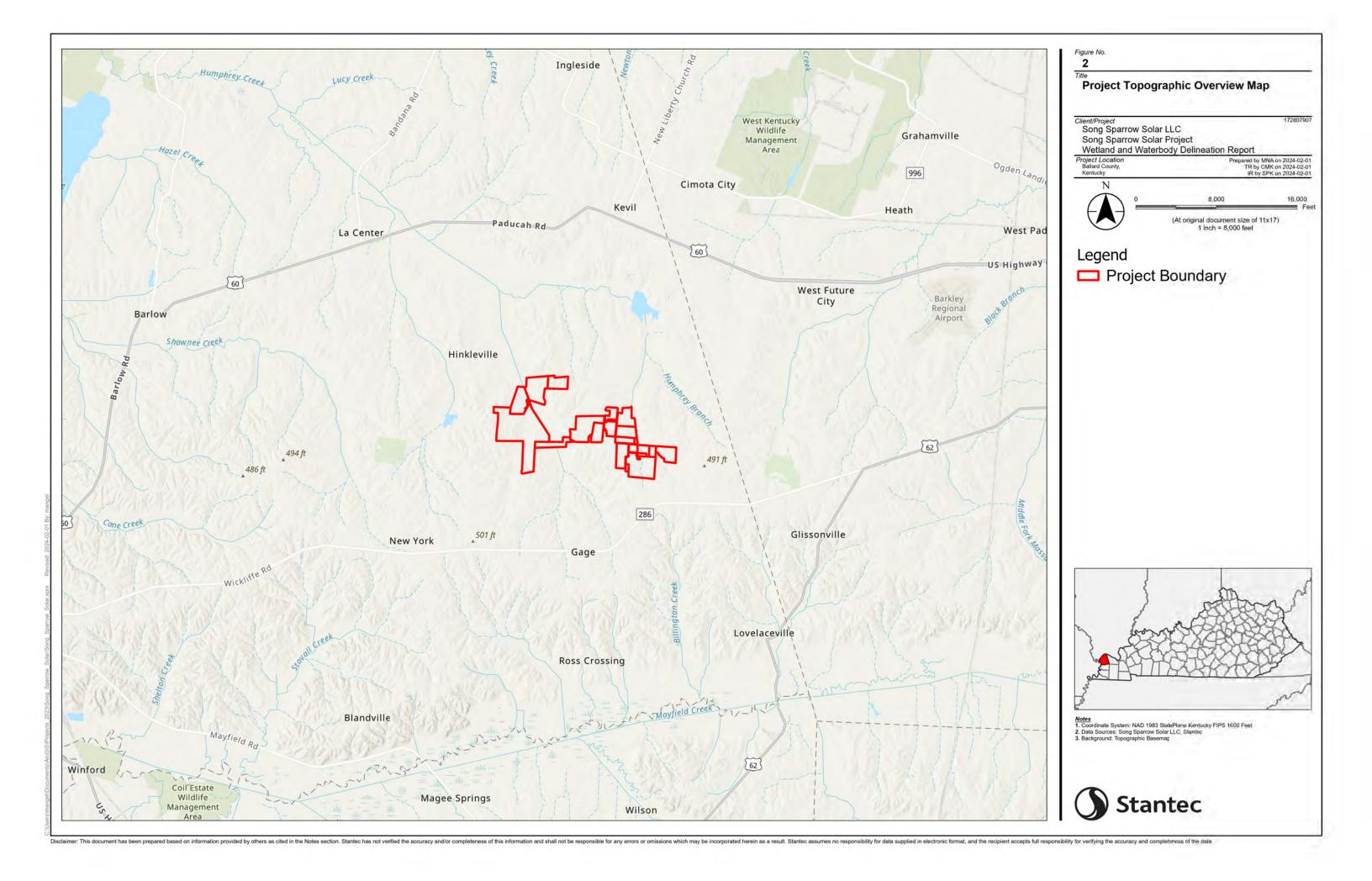
□ Project Boundary

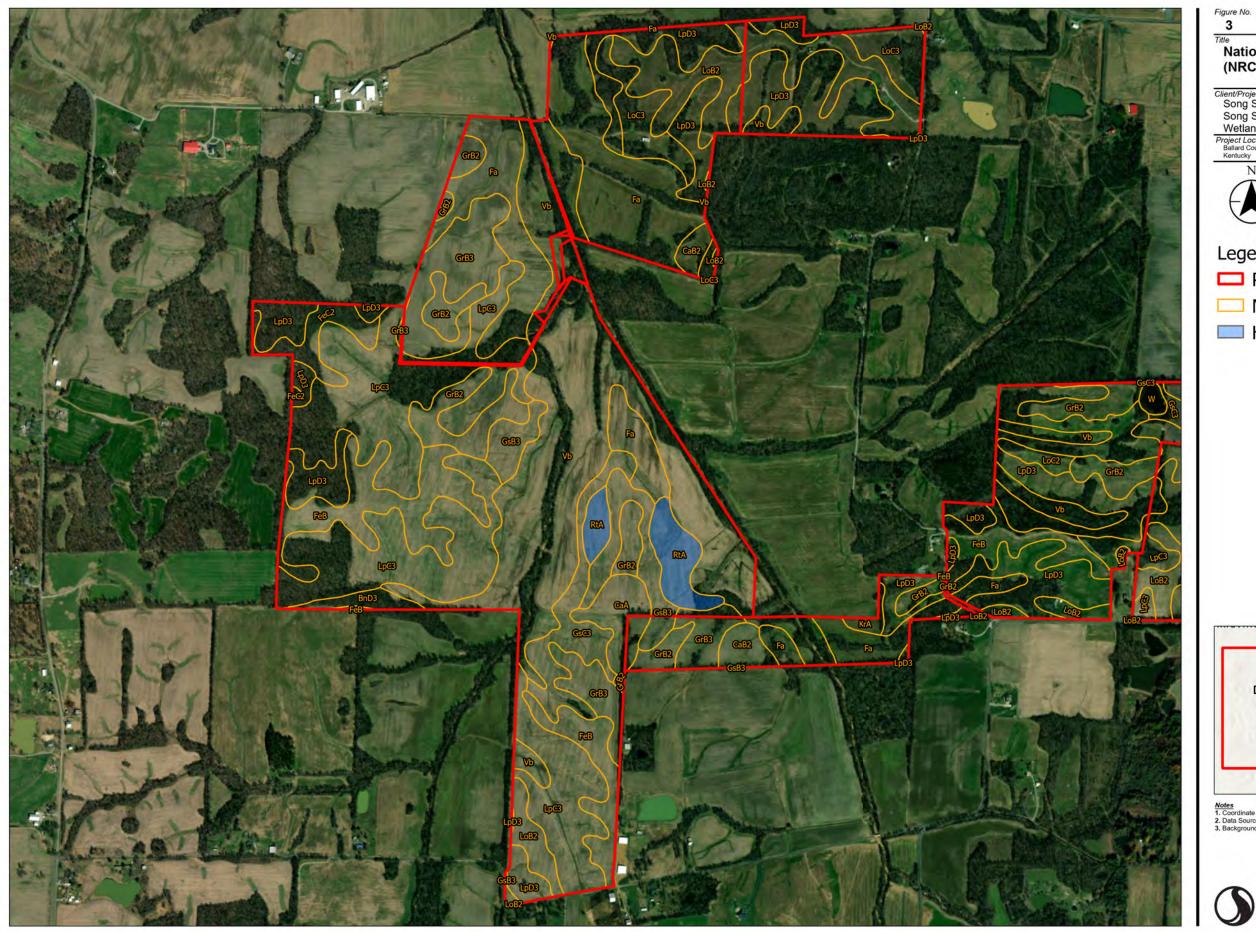


Notes
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2. Data Sources: Song Sparrow Solar LLC, Stantec
3. Background: Aerial Imagery Basemep.

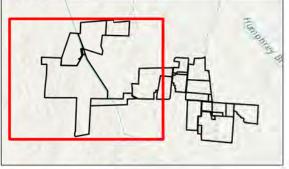


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National Resources Conservation Service (NRCS) Soil Survey Data Map Client/Project
Song Sparrow Solar LLC
Song Sparrow Solar Project
Wetland and Waterbody Delineation Report Project Location Ballard County, Kentucky (At original document size of 11x17) 1 inch = 1,050 feet Legend Project Boundary NRCS Soil Series Hydric Soils



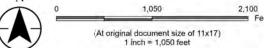
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2. Data Sources: Song Sparrow Solar LLC, Stantec, NRCS
3. Background: Aerial Imagery Basemep





National Resources Conservation Service (NRCS) Soil Survey Data Map Client/Project
Song Sparrow Solar LLC
Song Sparrow Solar Project
Wetland and Waterbody Delineation Report

Project Location Ballard County, Kentucky

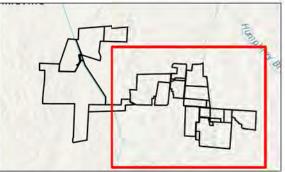


Legend

Project Boundary

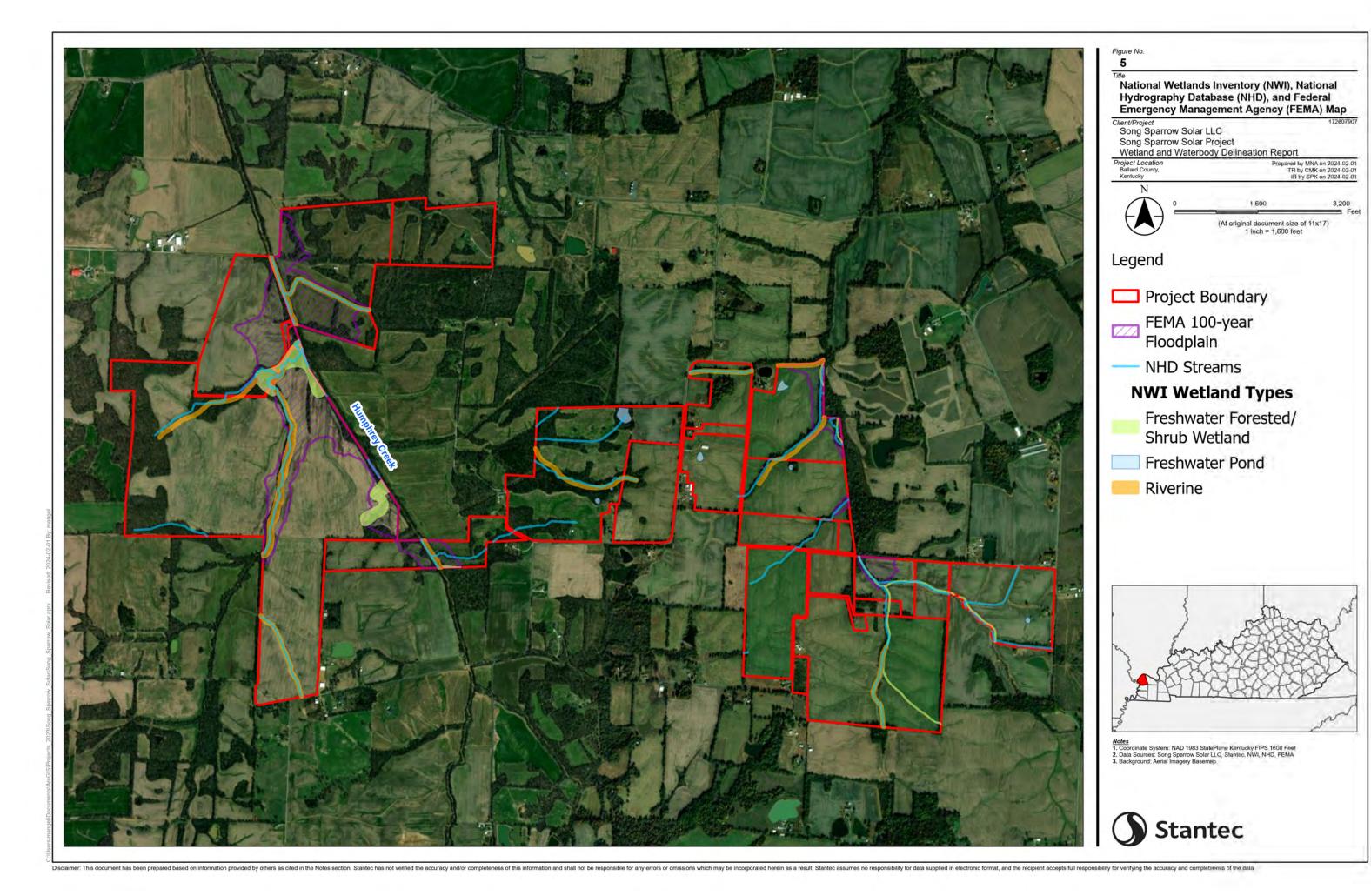
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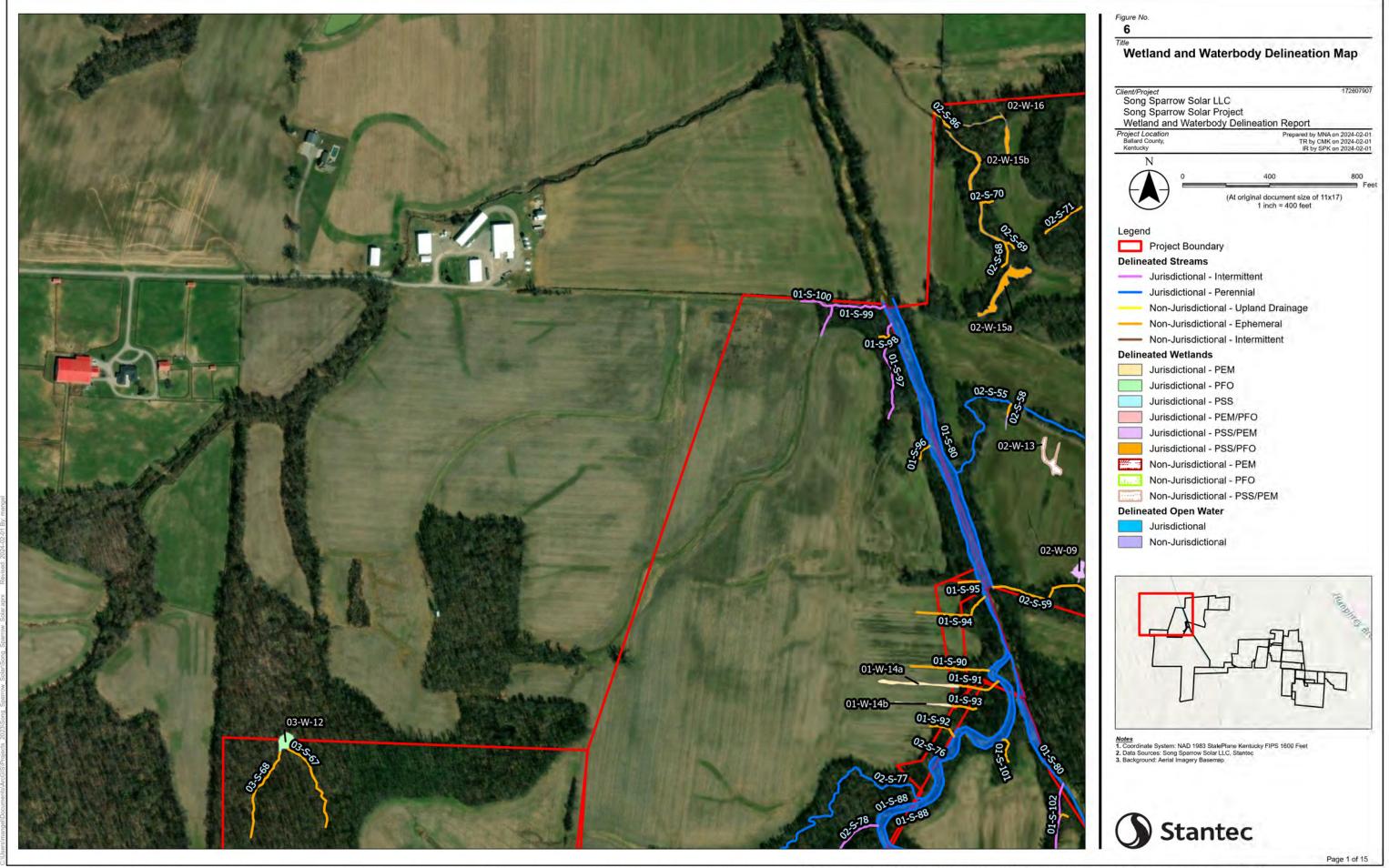
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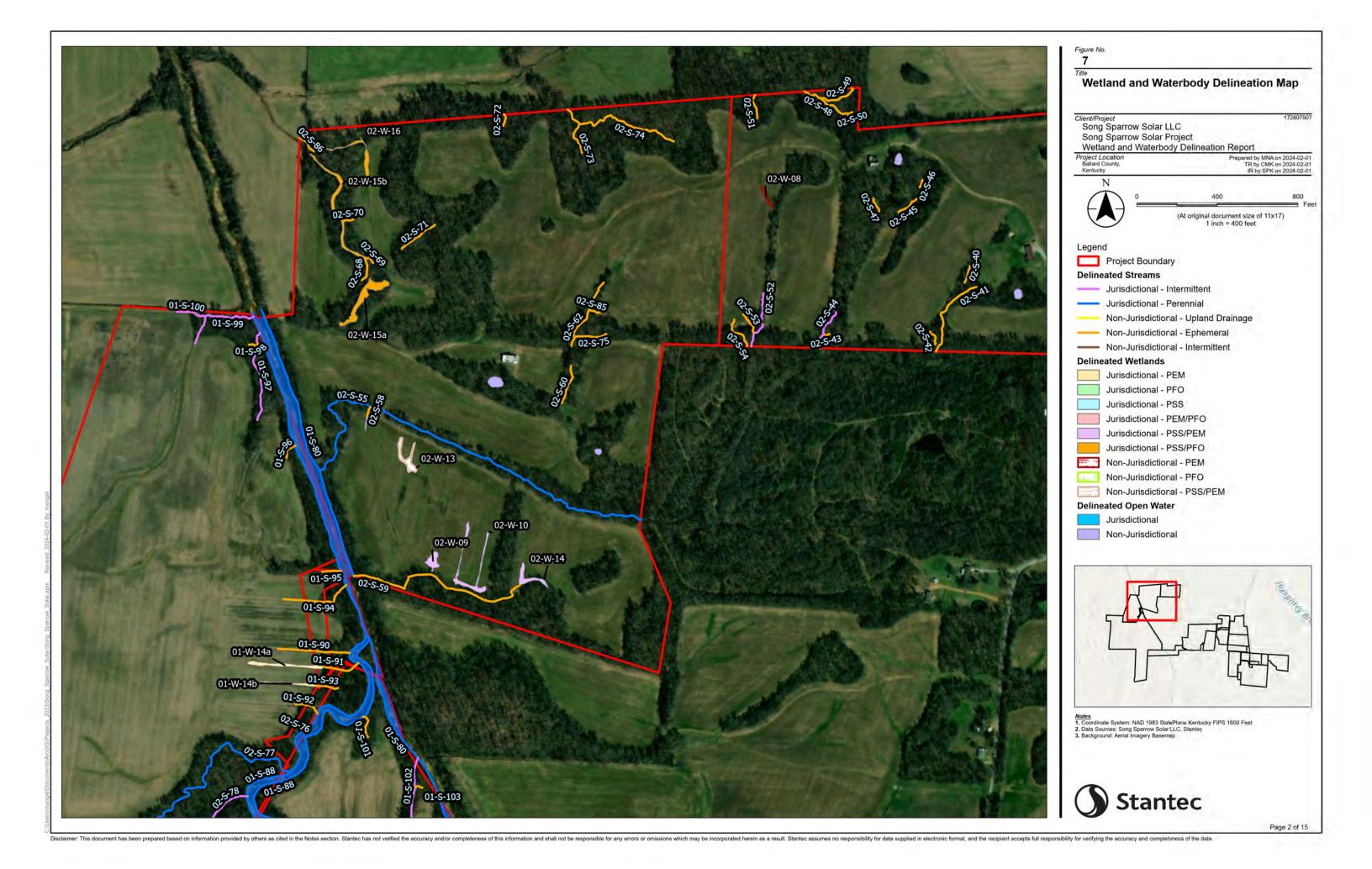


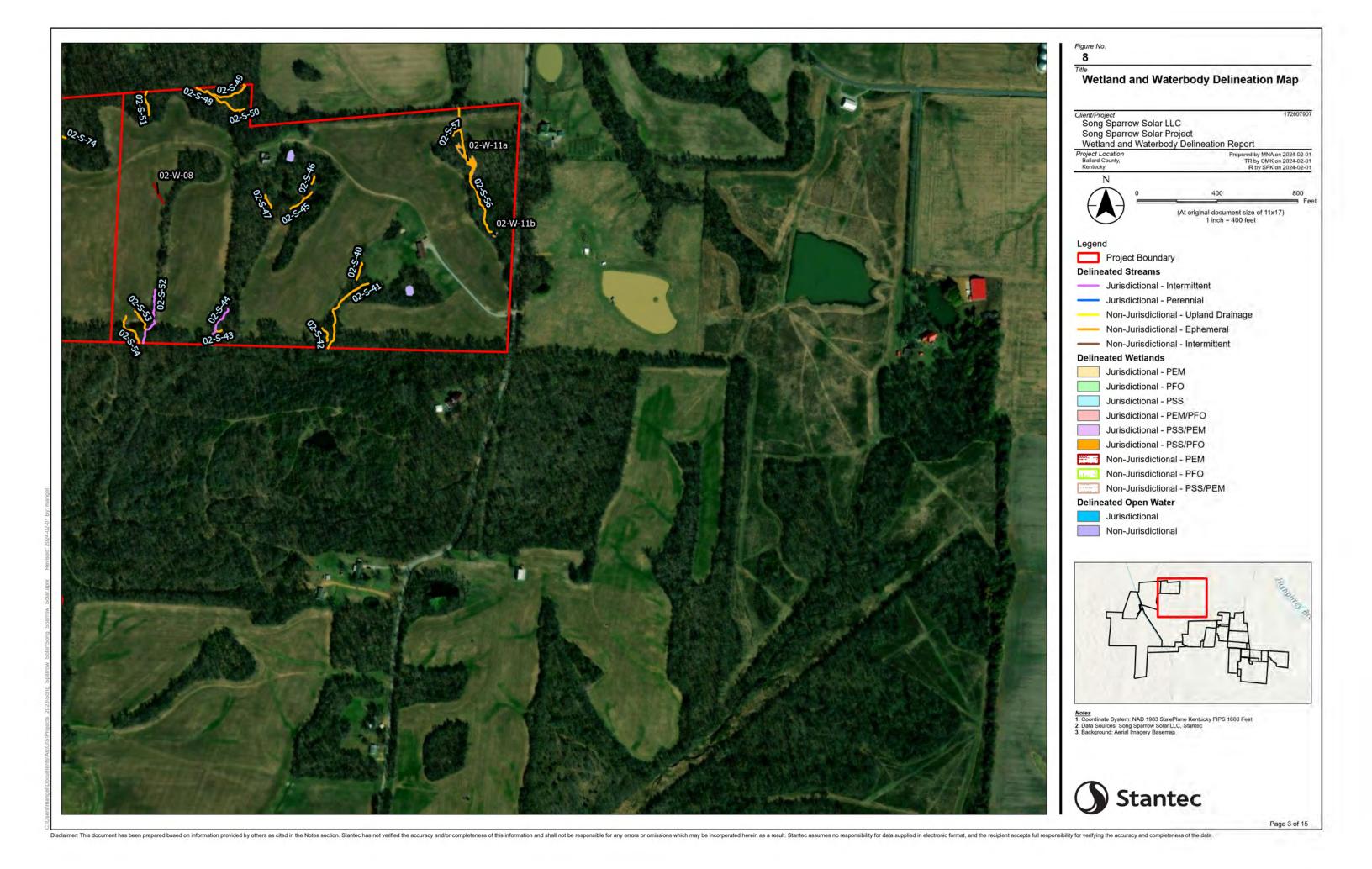
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2. Data Sources: Song Sparrow Solar LLC, Stantec, NRCS
3. Background: Aerial Imagery Basemap.





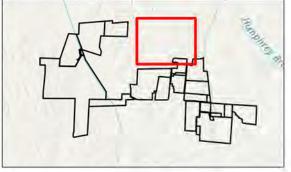








Wetland and Waterbody Delineation Map Client/Project
Song Sparrow Solar LLC Song Sparrow Solar Project
Wetland and Waterbody Delineation Report Prepared by MNA on 2024-02-01 TR by CMK on 2024-02-01 IR by SPK on 2024-02-01 Project Location Ballard County, (At original document size of 11x17) 1 inch = 400 feet Legend Project Boundary **Delineated Streams** Jurisdictional - Intermittent Jurisdictional - Perennial Non-Jurisdictional - Upland Drainage --- Non-Jurisdictional - Ephemeral Non-Jurisdictional - Intermittent **Delineated Wetlands** Jurisdictional - PEM Jurisdictional - PFO Jurisdictional - PSS Jurisdictional - PEM/PFO Jurisdictional - PSS/PEM Jurisdictional - PSS/PFO Non-Jurisdictional - PEM Non-Jurisdictional - PFO Non-Jurisdictional - PSS/PEM **Delineated Open Water** Jurisdictional Non-Jurisdictional



Notes

1. Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet

2. Data Sources: Song Sparrow Solar LLC, Stantec

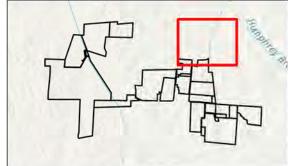
3. Background: Aerial Imagery Basemap.

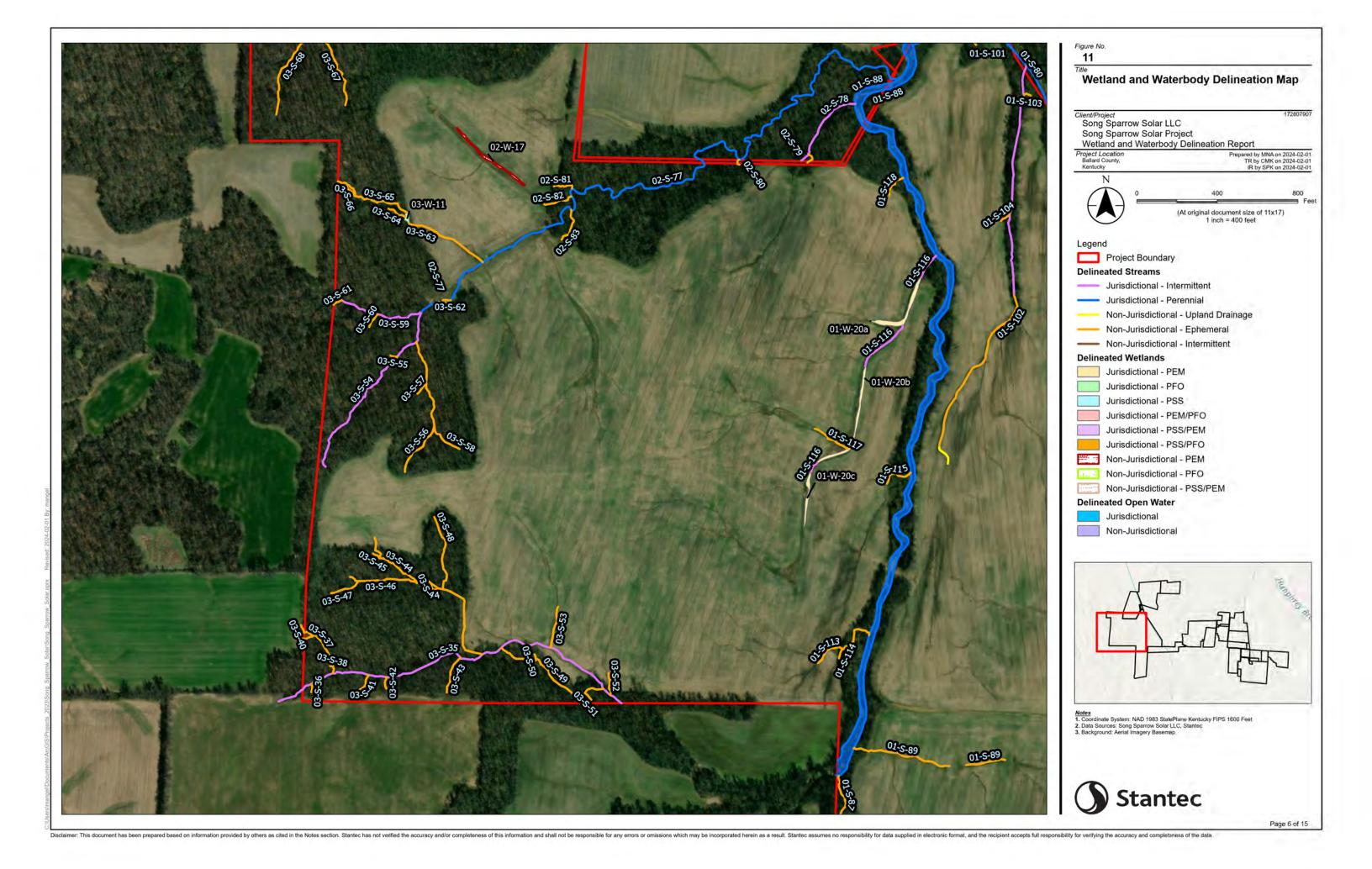


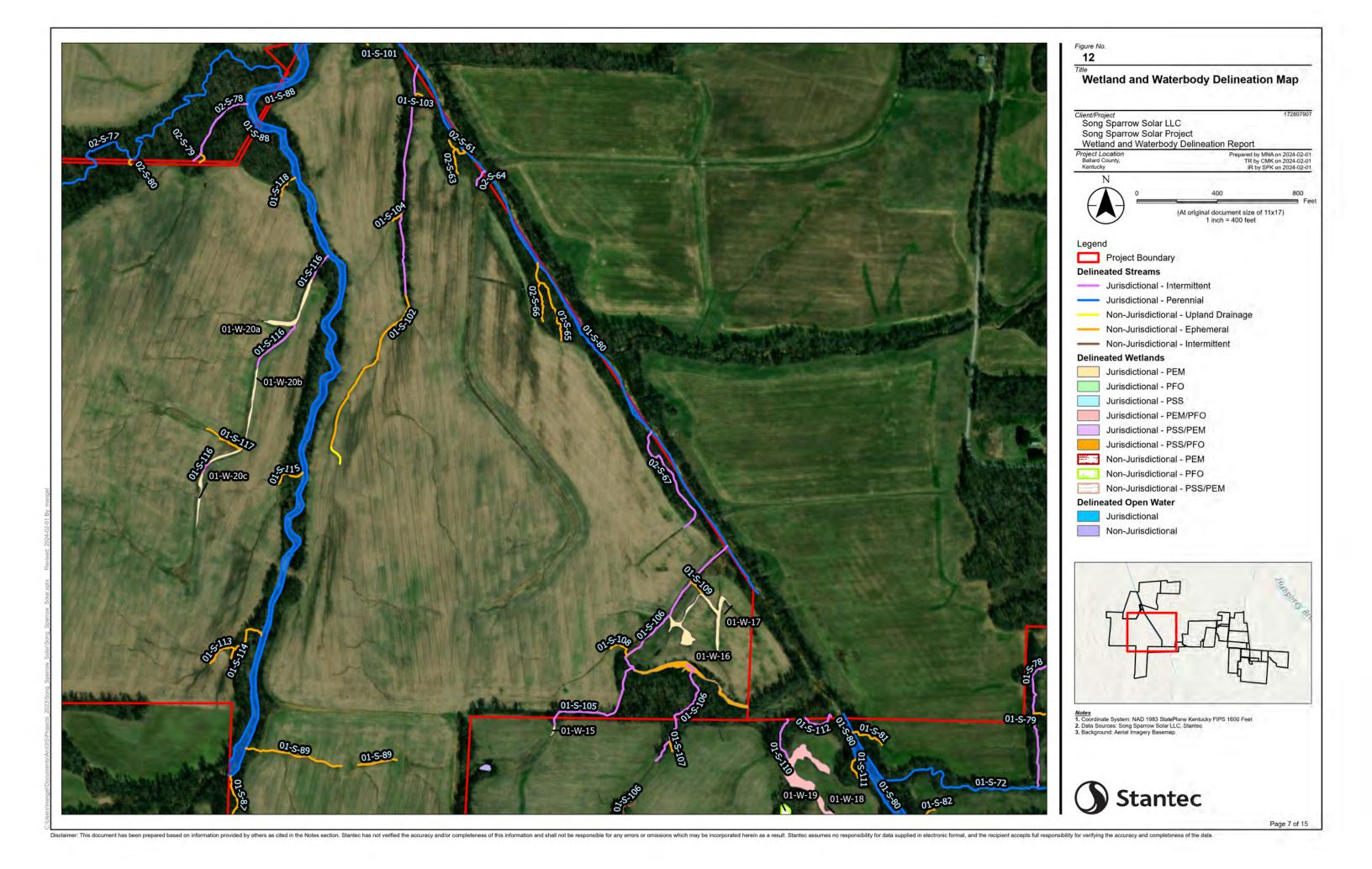


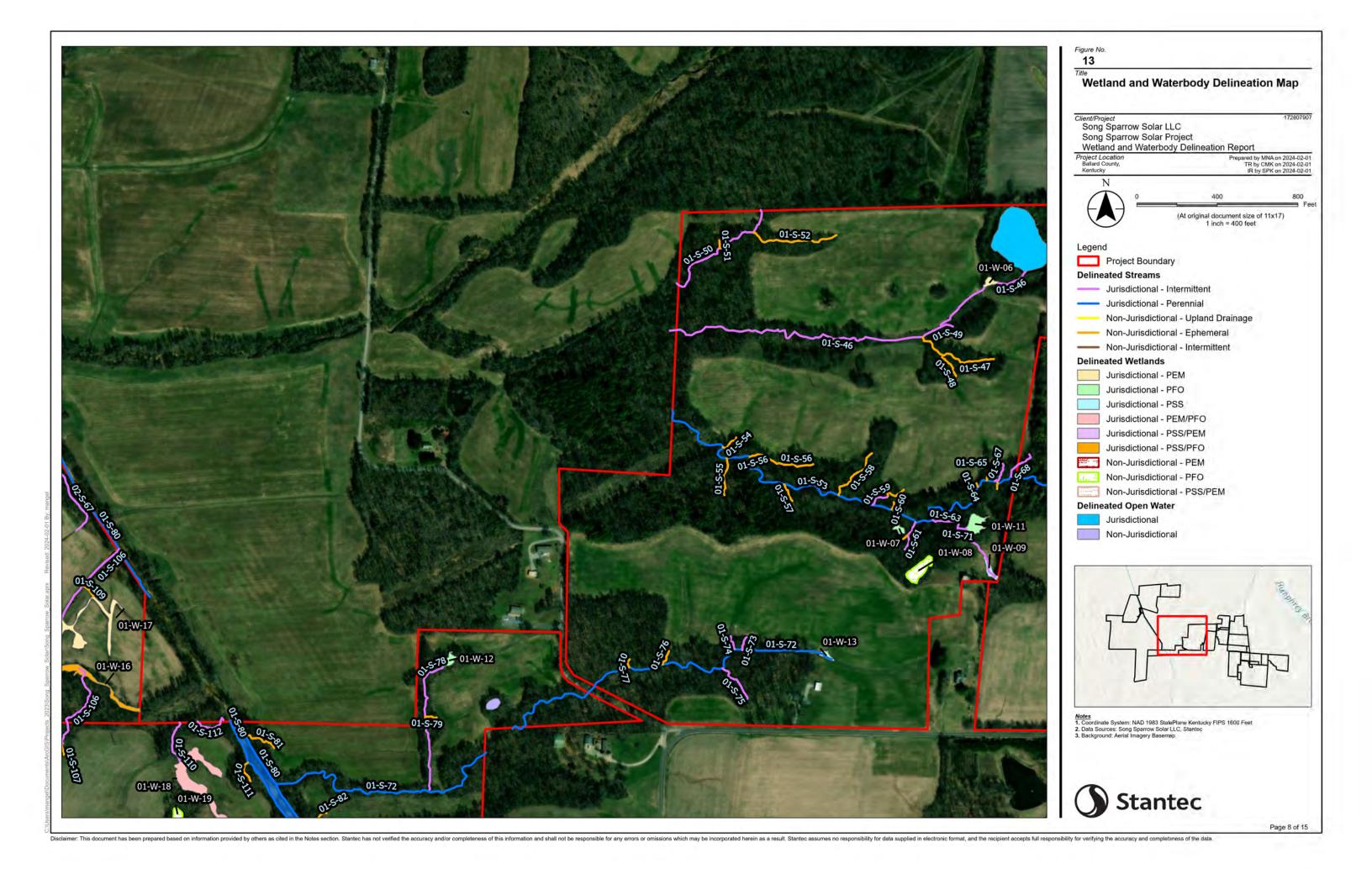
Wetland and Waterbody Delineation Map

Prepared by MNA on 2024-02-01 TR by CMK on 2024-02-01 IR by SPK on 2024-02-01









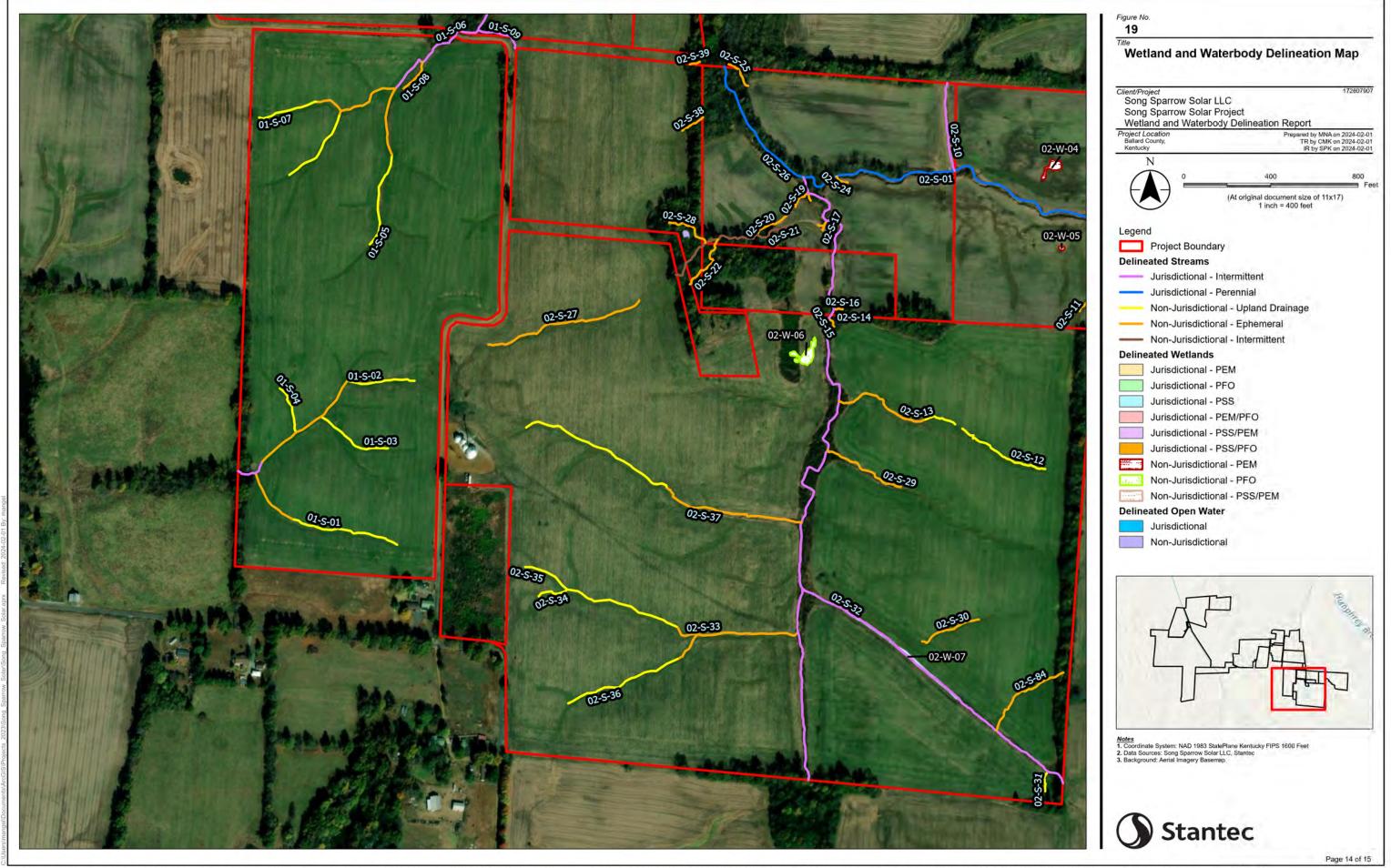




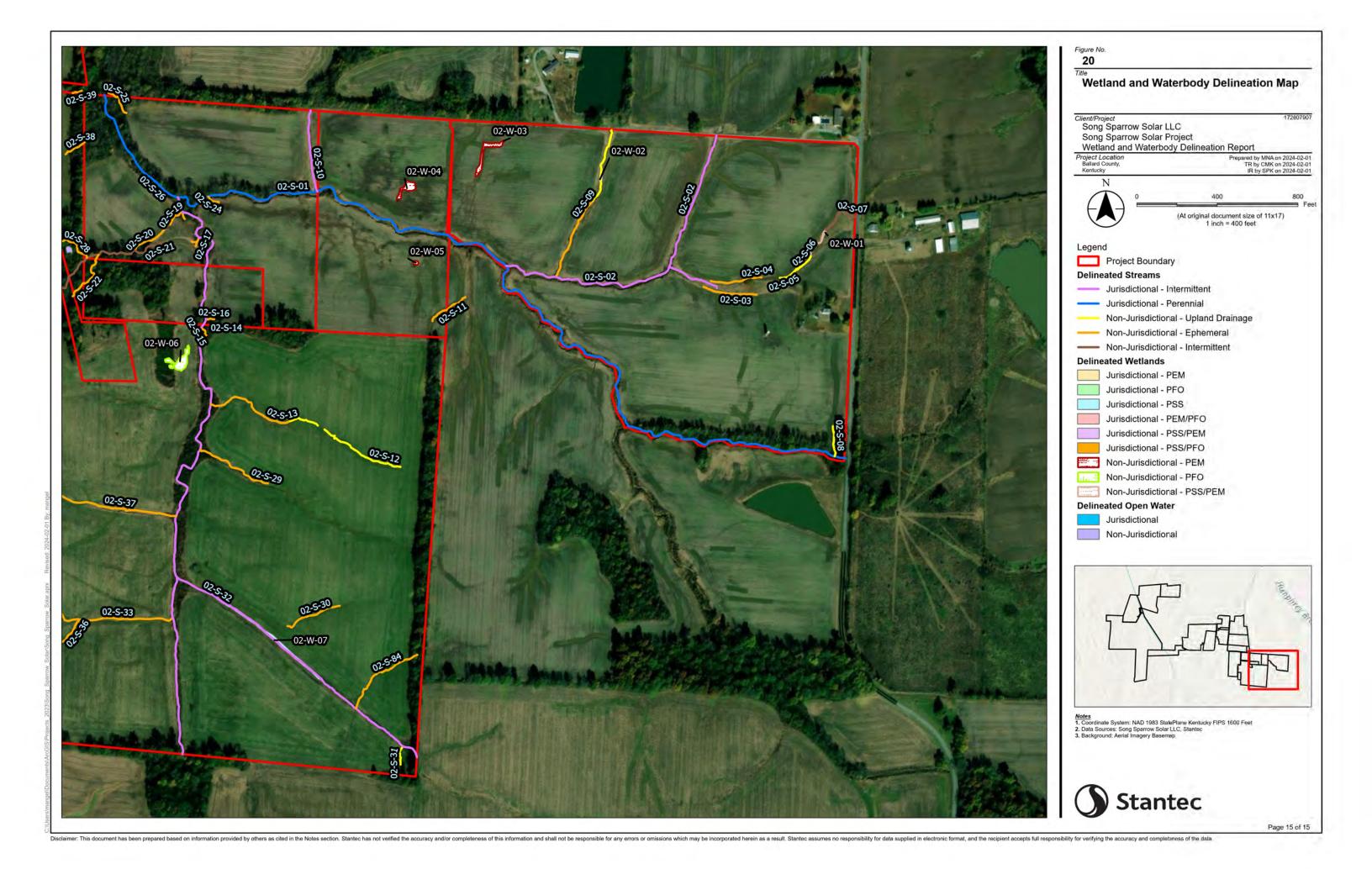








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Appendix B WETLAND DETERMINATION AND STREAM RBP DATA FORMS



Reach Name	Epifaunal Substrate	Embeddedness	Velocity/Depth Regime	Sediment Deposition	Flow Status	Alteration	Riffles/Bends	Left Stability	Right Stability	Left Veg	Right Veg	Rip Left	Rip Right	Total	Flow Regime
01-S-01	1	2	8	2	13	14	13	1	1	1	1	0	0	57	EPH
01-S-02	12	12	11	7	8	15	13	4	4	4	4	5	5	104	INT
01-S-02	1	2	8	2	13	14	13	1	1	1	1	0	0	57	EPH
01-S-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	UD
01-S-04	-	-	-	-	-	- 14	- 12	-	-	-	-	-	-	- 47	UD
01-S-05 01-S-06	1 1	2	<u>4</u> 8	2 2	3 13	14 14	13 13	1 1	1 1	3	3	0	0	47 57	EPH EPH
01-3-06 01-S-06	13	8	17	7	13	15	13	6	5	5	5	4	4	115	INT
01-S-07	1	2	8	2	13	14	13	1	1	1	1	0	0	57	EPH
01-S-08	1	2	3	2	1	12	8	1	1	1	1	0	0	33	EPH
01-S-09	13	12	13	14	9	12	12	4	4	6	6	4	4	113	INT
01-S-10	2	2	4	2	13	12	4	4	4	3	3	0	0	53	EPH
01-S-11	5	6	6	8	8	14	16	7	7	4	4	5	5	95	EPH
01-S-12	4	3	6	2	13	12	10	4	4	4	4	4	4	74	EPH
01-S-13	8	8	6	6	6	12	13	4	4	5	5	4	4	85	EPH
01-S-14	8	8	6	6	6	12	13	4	4	5	5	3	3	83	EPH
01-S-15	7	7	4	6	4	12	12	5	5	5	5	3	5	80	EPH
01-S-16 01-S-17	4 8	4	4	<u>8</u> 8	6 7	15 13	12 8	7	7	5 6	5 6	8 5	8 5	87 88	EPH EPH
01-3-17 01-S-18	8	4	4	8	7	13	6	7	7	6	6	5	5	86	EPH
01-S-19	16	13	16	14	9	13	13	7	7	8	8	4	4	132	PER
01-S-20	12	4	4	8	6	13	6	7	7	6	6	5	5	89	EPH
01-S-21	11	5	5	8	8	13	8	7	7	6	7	4	5	94	INT
01-S-21	10	6	5	8	6	7	4	4	2	1	1	1	1	56	INT
01-S-22	10	4	4	6	3	14	13	2	2	3	3	1	1	66	EPH
01-S-23	6	3	6	2	6	4	6	5	5	4	4	1	1	53	EPH
01-S-24	9	2	8	2	3	6	6	2	2	1	1	1	1	44	INT
01-S-25	1	4	5	4	2	7	5	1	1	1	1 5	0	0	32	EPH
01-S-26	12 12	5	2	6	9	13 13	9	6	6	5	5	4	4	86 86	EPH EPH
01-S-27 01-S-28	12	5 6	2 2	6 6	9	12	6	6 3	6	5 2	2	1	1	64	EPH EPH
01-3-28 01-S-29	5	6	3	2	1	5	2	2	2	1	1	0	0	30	EPH
01-S-30	6	4	2	3	1	6	2	2	2	2	1	1	1	33	EPH
01-S-31	6	4	2	3	1	6	2	2	2	2	1	1	1	33	EPH
01-S-32	5	6	3	2	1	4	2	2	2	1	1	0	0	29	EPH
01-S-33	5	5	4	3	2	5	2	2	1	1	1	0	0	31	EPH
01-S-34	4	7	2	3	1	3	5	2	2	2	2	1	1	35	EPH
01-S-35	4	7	2	3	2	3	5	2	2	2	2	1	1	36	EPH
01-S-36	5	6	4	5	1	5	1	6	6	5	5	3	3	55	EPH
01-S-37	8	9	7	8	4	7	6	5	5	4	4	2	3	72	INT
01-S-38	4	7	2	3	2	3	5	2	2	2	2	1	1	36	EPH
01-S-39	4	6	2	4	2	3	5 5	2	2	2	2	1	1	36 37	EPH
01-S-40 01-S-41	5 4	5 5	3 2	3	2	3 4	5	2	3	2	2	1 1	1	36	EPH EPH
01-S-41 01-S-42	4	7	4	3	3	4	5	4	5	2	3	1	1	46	EPH EPH

Reach Name	Epifaunal Substrate	Embeddedness	Velocity/Depth Regime	Sediment Deposition	Flow Status	Alteration	Riffles/Bends	Left Stability	Right Stability	Left Veg	Right Veg	Rip Left	Rip Right	Total	Flow Regime
01-S-43	4	7	5	2	2	3	5	3	2	2	2	1	1	39	EPH
01-S-44	4	5	2	3	2	4	2	2	2	1	1	0	0	28	INT
01-S-45	5	6	4	5	4	3	2	3	3	2	2	1	1	41	EPH
01-S-46	11	12	9	10	10	9	10	2	2	3	1	2	0	81	INT
01-S-47	8	9	7	8	4	7	6	5	5	5	4	4	4	76	EPH
01-S-48 01-S-49	4 5	7 12	9	3 8	3 9	4 14	5 8	4 8	8	5 4	5 4	2	2	52 97	EPH INT
01-S-49 01-S-50	15	15	9	11	8	14	12	7	7	5	6	5	5	119	INT
01-S-51	9	6	6	4	2	14	3	5	5	4	4	4	4	70	EPH
01-S-52	9	6	6	5	3	14	4	5	5	5	5	4	4	75	EPH
01-S-53	16	16	12	12	8	14	12	10	9	6	5	6	6	132	PER
01-S-54	7	7	5	5	1	15	10	6	6	4	4	3	3	76	EPH
01-S-55	7	7	5	6	1	15	9	6	6	5	5	5	5	82	EPH
01-S-56	13	6	6	9	5	16	11	6	6	7	4	8	8	105	INT
01-S-56	8	6	5	6	3	14	10	5	5	6	3	8	8	87	EPH
01-S-57	7	9	3	7	3	14	6	7	7	9	9	8	8	97	EPH
01-S-58	7	9	3	7	3	14	6	6	6	9	9	8	8	95	EPH
01-S-59	7	7	4	7	4	14	5	5	5	9	9	8	8	92	EPH
01-S-59 01-S-60	7 6	7 8	<u> </u>	<u>8</u> 8	5	14 14	5 4	5 4	5 4	9	9	8	0	87 86	INT EPH
01-3-60 01-S-61	9	6	5	10	9	14	5	5	5	4	4	8	8	92	INT
01-S-62	6	8	3	7	3	14	3	5	5	6	6	8	8	82	EPH
01-S-63	13	9	13	10	13	15	9	4	4	5	5	8	8	116	INT
01-S-64	4	6	4	5	1	6	5	5	5	2	2	2	2	49	EPH
01-S-65	5	6	4	5	1	6	5	5	5	2	2	2	2	50	EPH
01-S-66	7	7	5	5	3	10	7	7	7	5	5	5	5	78	EPH
01-S-67	10	9	8	7	8	13	9	8	8	5	5	5	5	100	INT
01-S-68	10	9	8	6	4	13	9	8	7	5	5	5	5	94	INT
01-S-69	11	8	13	10	12	13	9	4	4	5	5	8	8	110	INT
01-S-70	6	6	5	9	2	10	6	3	3	5	5	5	5	70	EPH
01-S-71 01-S-72	6 16	8 14	8 15	10	4 14	13 14	7 12	4 6	6	6 5	6 5	9 7	9	91 128	INT PER
01-3-72 01-S-73	11	8	8	7	7	6	3	4	4	3	3	5	5	74	INT
01-S-74	11	8	8	7	7	6	3	4	4	3	3	5	5	74	INT
01-S-75	13	15	10	9	9	12	10	6	6	5	5	6	6	112	INT
01-S-76	8	7	5	5	2	8	9	3	3	3	3	8	5	69	EPH
01-S-77	5	5	3	3	1	10	3	5	5	5	5	8	7	65	EPH
01-S-78	14	11	11	8	7	11	12	6	5	5	5	5	2	102	INT
01-S-79	6	3	1	2	0	8	5	3	3	2	2	5	5	45	EPH
01-S-80	19	19	10	15	13	14	11	8	8	5	5	9	9	145	PER
01-S-81	7	6	4	3	1	6	4	2	2	1	1	4	4	45	EPH
01-S-82	6	7	4	4	0	12	12	6	6	5	5	3	3	73	EPH
01-S-83	9	10	6	5	6	6	6	4	4	7	7	1	1	66	INT
01-S-84 01-S-85	11 5	11 6	<u>8</u> 2	<u> </u>	6	6 6	5 6	8	3	3	3	1	2	86 43	INT EPH

Reach Name	Epifaunal Substrate	Embeddedness	Velocity/Depth Regime	Sediment Deposition	Flow Status	Alteration	Riffles/Bends	Left Stability	Right Stability	Left Veg	Right Veg	Rip Left	Rip Right	Total	Flow Regime
01-S-86	5	6	2	3	1	6	6	3	3	2	2	1	1	41	EPH
01-S-87	9	11	6	4	4	5	5	4	4	5	5	1	1	64	EPH
01-S-88	17	16	15	13	13	12	11	5	5	5	5	4	4	125	PER
01-S-89	3	6	2	3	1	6	6	3	3	2	2	1	1	39	EPH
01-S-90	5	9	1	5	1	10	5	5	5	3	3	8	8	68	EPH
01-S-91 01-S-92	5 5	9	2 2	<u> </u>	3 2	10 10	9	5 5	5 5	5 5	5	8	8	79 77	EPH EPH
01-3-92 01-S-93	5	9	2	4	2	9	7	5	5	5	5	8	8	74	EPH
01-S-94	5	8	1	4	2	10	5	6	6	6	6	8	8	75	EPH
01-S-95	5	8	1	5	1	9	4	7	7	8	8	8	8	79	EPH
01-S-96	5	9	2	4	1	8	3	3	3	3	3	3	3	50	EPH
01-S-97	9	9	7	6	4	8	8	4	4	3	5	2	9	78	INT
01-S-98	4	8	1	4	2	4	2	3	3	3	3	4	3	44	EPH
01-S-99	6	9	4	6	4	8	8	4	4	6	6	2	4	71	EPH
01-S-100	7	8	12	6	10	6	2	3	3	2	5	2	5	71	EPH
01-S-101	6	8	5	6	2	12	5	4	4	5	5	10	5	77	EPH
01-S-102	13	10	10	12	13	11	7	4	4	3	3	6	2	98	INT
01-S-103	7	6	2	6	1	11	8	6	6	6	6	3	8	76	EPH
01-S-104 01-S-102	5 4	5 4	1	<u>6</u> 6	1 1	4	2	8 6	8 6	8	8	0	0	62 40	EPH EPH
01-3-102 01-S-105	6	5	3	7	5	5	9	7	7	4	Δ	3	3	68	INT
01-S-106	12	8	4	7	12	9	10	6	7	5	5	6	6	97	INT
01-S-107	3	5	2	5	1	55	2	3	3	4	4	2	3	92	EPH
01-S-108	5	8	5	5	1	5	2	5	5	2	2	2	2	49	EPH
01-S-109	5	5	3	5	3	8	4	5	5	2	2	1	1	49	EPH
01-S-110	10	6	8	7	6	10	8	5	5	6	6	6	8	91	EPH
01-S-111	5	4	2	5	1	11	4	6	6	5	6	6	10	71	EPH
01-S-112	12	8	6	7	10	11	12	7	7	6	8	6	10	110	INT
01-S-113	9	6	5	5	3	11	6	3	3	3	3	3	3	63	EPH
01-S-114	5	5	2	4	1	9	2	2	5	2	6	1	5	49	EPH
01-S-115 01-S-116	6 4	6 9	<u>4</u> 5	<u> </u>	2	5 5	10 3	6 7	5 7	7	7	1	2	64 65	EPH EPH
01-3-116 01-S-117	2	5	2	4	1	1	1	2	2	1	1	0	0	22	ЕРН
01-S-117 01-S-118	5	6	4	7	2	6	4	4	4	3	3	2	2	52	EPH
03-S-35	13	7	11	12	7	9	14	7	7	5	5	10	6	113	INT
03-S-36	6	4	3	4	1	10	4	4	4	2	2	5	5	54	EPH
03-S-37	6	5	4	6	2	14	4	4	4	5	5	10	10	79	EPH
03-S-38	4	4	2	6	1	14	4	5	5	6	6	10	10	77	EPH
03-S-39	4	4	3	6	1	9	2	3	3	4	4	6	6	55	EPH
03-S-40	3	5	2	5	1	4	1	3	3	4	4	3	3	41	EPH
03-S-41	4	4	2	6	1	12	5	5	6	6	6	8	8	73	EPH
03-S-42	4	4	2	6	1	12	5	5	6	6	6	6	6	69	EPH
03-S-43	6	7	2	8 7	1	13	6	5	5	5 7	5 7	8	8	79	EPH
03-S-44 03-S-45	8 4	5 5	12 6	4	6	14 10	15 6	8	8	4	4	9	9	115 72	EPH EPH

Reach Name	Epifaunal Substrate	Embeddedness	Velocity/Depth Regime	Sediment Deposition	Flow Status	Alteration	Riffles/Bends	Left Stability	Right Stability	Left Veg	Right Veg	Rip Left	Rip Right	Total	Flow Regime
03-S-46	6	5	8	6	1	15	11	8	8	5	5	9	9	96	EPH
03-S-47	5	5	7	6	1	15	9	8	8	5	5	9	9	92	EPH
03-S-48	6	5	8	6	1	15	11	8	8	5	5	9	9	96	EPH
03-S-49	5	5	8	7	1	14	11	6	6	6	6	6	10	91	EPH
03-S-50	4	4	2	6	1	12	5	5	6	6 7	6 7	3	3	63	EPH
03-S-51 03-S-52	6 3	6 6	6 2	4	1 1	12 4	11 4	3	3	2	2	8	8	84 36	EPH EPH
03-5-52 03-S-53	3	4	3	4	1	4	3	5	5	1	1	1 1	1	36	EPH
03-S-54	6	9	8	8	1	12	6	7	7	5	5	5	5	84	EPH
03-S-55	5	10	3	12	1	15	3	7	7	7	7	10	10	97	EPH
03-S-56	8	12	7	12	4	15	6	8	7	7	7	10	9	112	INT
03-S-57	5	7	3	12	1	12	3	6	6	6	6	10	10	87	EPH
03-S-58	5	8	2	11	1	12	3	7	7	7	6	7	7	83	EPH
03-S-59	8	12	7	13	5	14	7	6	7	6	6	10	10	111	INT
03-S-60	6	11	5	12	3	15	6	7	7	6	7	9	9	103	EPH
03-S-61	6	6	4	10	4	15	2	4	3	3	3	10	10	80	EPH
03-S-62	3	10	1	8	1	3	2	3	3	2	2	1	1	40	EPH
02-S-77	4	10	2	8	2	3	2	4	4	2	2	1	1	45	EPH
03-S-63 03-S-64	4 6	4 6	1 2	7	1	2 12	7	2 6	6	8	8	9	9	25 87	EPH EPH
03-S-65	6	7	3	7	1 1	12	8	7	7	8	8	9	9	92	EPH
03-S-66	6	7	4	7	2	11	7	7	7	6	6	7	7	84	EPH
03-S-67	6	14	6	14	5	16	8	8	8	8	8	10	10	121	EPH
03-S-68	6	14	6	14	5	16	8	8	7	7	7	9	10	117	EPH
02-S-01	18	13	18	14	14	18	13	7	7	5	5	5	9	146	PER
02-S-01	10	10	16	9	9	13	9	4	5	2	5	1	3	96	PER
02-S-02	7	4	6	8	2	6	6	4	4	2	2	2	1	54	EPH
02-S-03	2	5	3	6	3	6	3	2	2	1	1	0	0	34	EPH
02-S-02	10	4	12	7	5	6	7	2	2	5	4	0	0	64	INT
02-S-04	1	2	2	4	0	2	2	2	2	4	4	0	0	25	EPH
02-S-05 02-S-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	UD UD
02-3-00 02-S-07	10	4	12	7	5	6	7	2	2	5	4	0	0	64	INT
02-S-08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	UD
02-S-09	10	4	12	7	5	6	7	2	2	5	4	0	0	64	EPH
02-S-10	4	5	9	12	10	11	9	7	7	8	7	1	1	91	INT
02-S-11	3	3	6	8	6	6	6	5	5	4	4	1	1	58	EPH
02-S-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	UD
02-S-13	2	3	4	6	2	6	3	4	4	2	2	0	0	38	EPH
02-S-14	2	3	4	6	2	6	3	4	3	2	2	4	4	45	EPH
02-S-15	2	3	4	6	2	6	4	4	4	3	3	7	7	55	EPH
02-S-16	4	3	5	6	5	6	3	3	3	3	3	5	6	55	EPH
02-S-17	7	7	7	6	6	7	7	3	3	2	2	5	5	67	INT
02-S-18	3	3	3	7	0	6	7	3	3	2	2	1	1	38	INT
02-S-19	6	6	5	/	5	6	6	2	2	3	2	1	1	52	INT

Reach Name	Epifaunal Substrate	Embeddedness	Velocity/Depth Regime	Sediment Deposition	Flow Status	Alteration	Riffles/Bends	Left Stability	Right Stability	Left Veg	Right Veg	Rip Left	Rip Right	Total	Flow Regime
02-S-20	1	2	1	2	0	6	2	2	2	5	5	0	0	28	EPH
02-S-21	11	13	16	12	15	13	12	6	5	5	5	5	5	123	INT
02-S-22	3	5	11	6	2	10	9	3	3	4	4	5	5	70	EPH
02-S-23	3	3	5	3	1	6	3	1	1	2	2	5	5	40	EPH
02-S-24	6	4	9	4	1	6	3	3	3	3	2	2	2	48	EPH
02-S-25 02-S-26	4 15	3 14	6 16	4 15	1 14	6 14	4 13	3 7	7	8	7	5	2 4	47 139	EPH PER
02-3-20 02-S-27	1	7	2	3	2	6	2	2	2	6	6	0	0	39	EPH
02-S-28	4	3	9	5	3	6	6	3	2	8	7	2	2	60	EPH
02-S-29	1	2	2	3	3	6	3	3	3	4	4	0	0	34	EPH
02-S-30	1	2	2	3	3	6	3	4	3	4	4	0	0	35	EPH
02-S-31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	UD
02-S-32	3	4	4	4	9	6	3	5	5	6	6	0	0	55	EPH
02-S-33	3	4	3	4	3	6	2	4	4	6	6	0	0	45	EPH
02-S-34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	UD
02-S-35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	UD
02-S-36	2	3	2	4	3	6	2	3	3	6	6	0	0	40	EPH
02-S-37	3	3	2	4	3	5	3	2	2	5	5	0	0	37	EPH
02-S-38 02-S-39	3	3 6	2	<u>3</u>	0	6 8	4	3 8	3 8	6 9	6 9	6	0 6	37 75	EPH EPH
02-3-39 02-S-40	4	6	3	<u>4</u>	3	8	3	9	9	10	10	6	6	81	INT
02-S-41	4	6	3	4	3	8	3	9	9	10	10	6	6	81	INT
02-S-42	3	5	4	3	2	8	3	9	9	10	10	6	6	78	EPH
02-S-43	2	4	3	3	0	6	3	6	6	10	10	7	7	67	EPH
02-S-44	2	4	3	3	0	6	2	6	6	10	10	7	7	66	EPH
02-S-45	0	4	2	3	0	6	2	3	3	8	8	5	5	49	EPH
02-S-46	2	3	3	3	0	6	3	6	5	8	8	4	4	55	EPH
02-S-47	2	3	3	4	0	8	2	3	3	8	8	5	5	54	EPH
02-S-48	4	4	4	5	3	6	3	9	9	8	7	6	6	74	EPH
02-S-49	4	6	4	6	7	9	3	11	11	9	9	8	8	95	INT
02-S-50 02-S-52	3	6 4	3 4	<u>4</u> 6	3	9	3 4	9 4	9	10 8	10 8	6 3	6	80 65	EPH INT
02-S-52 02-S-59	4	4	4	5	7	8	4	3	4	8	8	3	3	65	INT
02-S-60	2	3	3	3	3	6	3	6	5	8	8	2	2	54	EPH
02-S-55	9	12	13	11	17	15	11	7	7	6	6	5	3	122	PER
02-S-56	2	2	6	6	1	7	6	7	6	8	8	5	3	67	EPH
02-S-57	1	5	3	4	2	7	3	7	7	7	8	1	1	56	EPH
02-S-59	3	5	2	4	2	7	3	7	7	6	9	3	3	61	EPH
02-S-60	2	3	3	3	1	6	3	4	4	8	7	3	2	49	EPH
02-S-63	1	2	2	2	1	6	3	3	4	8	8	4	4	48	EPH
02-S-65	2	2	3	3	1	6	4	5	5	6	6	5	5	53	EPH
02-S-66	1	2	2	3	0	6	3	5	5	8	8	5	5	53	EPH
02-S-67	4	6	5	6	7	6	5	6	5	8	8	5	2	73	EPH
02-S-69	2	3	3	3	2	6 7	3	5 7	5	6	6	6	5	55 60	EPH
02-S-62	3	3	9	4	5	/	6	/	5	6	5	4	5	69	EPH

Reach Name	Epifaunal Substrate	Embeddedness	Velocity/Depth Regime	Sediment Deposition	Flow Status	Alteration	Riffles/Bends	Left Stability	Right Stability	Left Veg	Right Veg	Rip Left	Rip Right	Total	Flow Regime
02-S-64	2	3	6	5	3	6	4	5	5	6	6	10	7	68	INT
02-S-68	4	5	2	7	5	7	2	9	9	10	10	4	7	81	INT
02-S-51	3	5	2	7	0	10	2	7	6	7	7	8	8	72	EPH
02-S-53	10	8	11	8	6	11	12	6	4	4	4	2	2	88	EPH
02-S-54	0	0	1	5	0	6	3	1	1	5	5	0	0	27	EPH
02-S-56	3	3	2	4	3	6	3	3	2	5	5	2	2	43	EPH
02-S-55	9	13	16	10	11	8	13	6	8	8	7	9	5	123	PER
02-S-08	17	17	18	14	14	15	7	8	8	8	8	5	5	144	PER
02-S-58	2	3	7	6	2	6	4	7	6	6	6	2	2	59	EPH
02-S-71	3	3	8	6	5	12	8	7	9	8	8	8	9	94	EPH
02-S-72	1	3	7	15	0	9	3	8	8	8	8	6	8	84	EPH
02-S-73	2	2	7	6	0	9	10	9	4	5	8	6	9	77	EPH
02-S-74	4	8	10	10	3	14	10	6	4	7	7	8	6	97	EPH
02-S-75	2	3	3	6	0	6	3	5	7	8	8	4	7	62	EPH
02-S-76	1	3	2	6	0	6	3	6	5	6	4	4	4	50	INT
02-S-78	15	14	16	11	14	15	15	7	7	7	7	4	8	140	PER
02-S-79	9	8	13	16	6	11	8	1	1	5	5	6	9	98	EPH
02-S-80	2	5	4	6	6	6	4	4	3	6	6	9	9	70	EPH
02-S-81	2	5	3	6	0	6	3	4	4	2	2	2	2	41	EPH
02-S-82	4	4	10	4	6	8	9	5	4	4	4	3	3	68	EPH
02-S-83	3	2	2	9	3	6	6	2	2	7	7	5	5	59	EPH

Project/Site. Sony Sparrow Sol Applicant/Owner: Clearway Investigator(s): Sharkeling Chri Landform (hillslope, terrace, etc.), Difth Subregion (LRR or MLRA): LRR P Soil Map Unit Name: 9303 Are climatic / hydrologic conditions on the site to	Lat: 39.67	tion, Township, Range: al relief (concave, convex, 193(ob) Long: Yes _ * No	none): Cancast none): Cancast NWI dessifica (If no, explain in Re	Sampling Point: <u>O -WA5-</u> Slope (%): Z Datum: <u>NAD83</u> ation: <u>Pu6 Hk</u>
Are Vegetation, Soil, or Hydrolo		natic? (if needed,	explain any answer	s in Remarks.)
	* No * No	is the Sampled Area within a Wetland?	YesX	No
HYDROLOGY	[
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required. Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Aquatic Fauna (813) Marl Deposits (815) (LI Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced II Recent Iron Reduction Thin Muck Surface (C7) Other (Explain in Rema	(C1) along Living Roots (C3) ron (C4) in Trited Soils (C6)) rks)	Surface Soil C Sparsely Veg Drainage Patt Moss Trim Lir Dry-Season V Crayfish Burn Saturation Vis Geomorphic I Shallow Aquil FAC-Neutral	etated Concave Surface (B8) terns (B10) nes (B16) Nater Table (C2) nws (C8) sible on Aerial Imagery (C9) Position (D2) land (D3)
	Depth (inches): Depth (inches): Depth (inches): Depth (inches):	Wetland	Hydrology Preseni allable:	r? Yes X No
Remarks:				
	~			

Tree Stratum (Plot size:) 1)	And the second s	pecies? Status	Dominance Test worksheet: Number of Dominent Species That Are OBL, FACW, or FAC; (A)
2	-		Total Number of Dominant
4			Species Across All Strata: (B) Percent of Dominant Species
5			That Are OBL. FACW, or FAC: (AR
50% of lotal cover.	= T		Prevalence Index worksheet: Total % Cover of: Multiply by.
Sapling Stratum (Plot size:)		81 COVEL.	OBL species x 1 =
1	-		FACW species x 2 = FAC species x 3 =
3.			FACU species x 4 =
			UPL species x 5 ≂ Column Totals: (A) (B
5.			
	= T	olal Cover	Prevalence Index = B/A =
50% of total cover) Shrub Stratum (Plot size:)		al cover	
1-			3 · Prevalence Index is \$3.01
			Problematic Hydrophylic Vegetation1 (Explain)
			Indicators of hydric soil and welfend hydrology must be present, unless disturbed or problematic.
5			Definitions of Five Vegetation Strata:
50% of total cover: Herb Stratum (Plot size:5 ^F +)	25.57.53	otal Cover	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Échinochloa erus-jalli		X FALCO	Sapting – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
			than 3 in. (7.6 cm) DBH.
			Shrub - Woody plants, excluding woody wnes, approximately 3 to 20 ft (1 to 6 m) in height.
			Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 2.4 (4 m) in height.
0			3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1	= To	tal Cover	
50% of total cover:			
Voody Vine Stratum (Plot size:)			
	= 70	1al Cover	Hydrophytic Vegetation
50% of total cover:			Present? Yes No
emarks. (If observed, list morphological adaptations be	lovil		

	Color (moist) 7.5 9 k. 9 l b 7.5 9 k. 9 l b	Features % 16 30	Type' C C	Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reydric Solf Indicators: (Applicable to all LR Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	7.5 9K YV	18				
ype: C=Concentration, D=Depletion, RM=Reydric Solf Indicators: (Applicable to all LR Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	7.5 9K YV	30	<u>c</u>	<u>~</u>		
ype: C=Concentration, D=Depletion, RM=Re ydrlc Solf Indicators: (Applicable to all LR _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histlc (A3)	educed Matrix, MS			=		
ydric Solf Indicators: (Applicable to all LR _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3)					===	
ydric Solf Indicators: (Applicable to all LR _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3)				=		
ydric Solf Indicators: (Applicable to all LR _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3)			\equiv			
ydric Solf Indicators: (Applicable to all LR _ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3)				_		
ydric Solf Indicators: (Applicable to all LR Histosol (A1) Histic Epipedon (A2) Black Histic (A3)						
ydric Solf Indicators: (Applicable to all LR Histosol (A1) Histic Epipedon (A2) Black Histic (A3)						
ydric Solf Indicators: (Applicable to all LR Histosol (A1) Histic Epipedon (A2) Black Histic (A3)						
ydric Solf Indicators: (Applicable to all LR Histosol (A1) Histic Epipedon (A2) Black Histic (A3)				-		200 W 7. 5 T
Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	KS, Uniess Otherv			ains.		Pore Lining, M=Matrix.
Histic Epipedon (A2) Black Histic (A3)						Problematic Hydric Soils*:
Black Histle (A3)	Polyvalue Beld				_	
	Thin Dark Surf					(A10) (LRR S)
_ Hydrogen Sulfide (A4)	Loamy Mucky			(O)		ertic (F18) (outside MLRA 150A,6
The state of the s	Loamy Gleyed		F2)		200000000000000000000000000000000000000	loodplain Soils (F19) (LRR P, S, T
_ Stratified Layers (A5)	X Depleted Matri					Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Si				(MLRA 1	•
_ 5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark				_	Material (TF2)
_ Muck Presence (A6) (LRR U)	Redox Depres		9)			w Dark Surface (TF12)
_ 1 cm Muck (A9) (LRR P, T)	Mart (F10) (LR				Other (Expl	ain in Remarks)
_ Depleted Below Dark Surface (A11)	Depleted Ochr					
_ Thick Dark Surface (A12)	Iron-Mangenes				•	of hydrophylic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surfac			, U)		hydrology must be present,
Sandy Mucky Mineral (\$1) (LRR O, \$)	Delta Ochric (F		-		unless di	isturbed or problematic:
_ Sandy Gleyed Matrix (S4)	Reduced Vertice			_		
Sandy Redox (S5)	Pledmont Floo			•	•	
_ Stripped Matrix (S6)	Anomalous Bri	ght Loan	ny Solis (i	F20) (MLRA	4 149A, 153C, 153I	D)
Dark Surface (S7) (LRR P, S, T, U)						
estrictive Layer (if observed):						
Туре:	-8					×
Depth (inches):					Hydric Soil Pres	ent? Yes No
emarks:				-		

	Lillolon Loc	dion, Township, Range: _ al relief (concave, convex,	Sampling Date: 7 20-1 State: Sampling Point: State: State: State: State: Sta
Are climatic / hydrologic conditions on	the site typical for this time of year?		(If no, explain in Remarks.)
Are Vegetation, Soil, c	r Hydrology significantly distr	urbed? Are "Norma	ll Circumatances" present? Yes X No
Are Vegetation, Soil, c	r Hydrology naturally probler	natic? (If needed.	explain any answers in Remarks.)
SUMMARY OF FINDINGS	Attach site map showing sa	mpling point location	ons, transects, important features, etc
Hydrophytic Vegetation Present? Hydric Soil Present? Welland Hydrology Present?	Yes No	is the Sampled Area within a Wetland?	Yes No_X
W.	plana poins associa	m (m/ 0)	w-01
HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one i			Surface Soil Cracks (96)
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LR	·	Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor		Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)	Oxidized Rhizospheres	- •	Ory-Season Water Table (C2)
Drift Deposits (B3)	Presence of Reduced InRecent Iron Reduction in	, ,	Crayfish Burrows (CB)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Remai		Shellow Aquitard (D3)
Inundation Visible on Aerial Imag		ikay	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	,		Sphagnum moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes	No 🗡 Depth (inches):		
Water Table Present? Yes	~		
	No Depth (inches):	Wetland h	lydrology Present? Yes No
Describe Recorded Data (stream gau	ige, monitoring well, aerial photos, pr	evious inspections), if ava	illable:
Remarks:			

Tree Stratum (Plot size:)			Indicator	Dominance Test worksheet:
1,	70 00101	Opodico		Number of Dominant Species That Are OBL, FACW, or FAC. (A)
				Total Number of Dominant
3				Species Across All Streta:(B)
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:(A/I
j				Prevalence Index worksheet:
				Total % Cover of:Multiply by:
50% of total cover	20% of	total cover		OBL species x1 =
Sapling Stratum (Plot size:)				FACW species x 2 =
	_			FAC species x 3 =
		_		FACU species x 4 =
			_	UPL species x 5 =
				Соlumл Totals: (A) (В
				Benjalanan ladari a 545 a
		= Total Co	NB1	Prevalence Index = B/A =
50% of total cover:				Hydrophylic Vegetation Indicators: 1 - Rapid Test for Hydrophylic Vegetation
Shrub Stratum (Plot size:)	7			2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0'
				Problematic Hydrophytic Vegetation* (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Five Vegetation Strata:
	:	Total Co	/er	Tree - Woody plants, excluding woody vines,
50% of total cover:	20% of	total cover		approximately 20 ft (6 m) or more in height and 3 in.
lerb Stratum (Plot size:	-			(7.6 cm) or larger in diameter at breast height (DBH).
Dries curity	-		MPL	Sapling - Woody plants, excluding woody vines,
Truin Durburann	3		PACK	approximately 20 ft (6 m) or more in height and less than 3 in (7.6 cm) DBH.
Sor Jhum halepense				1
Andropoyen sirginicus	. 10		FAC	Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
			_	Herb – All herbaceous (non-woody) plants, including herbaceous whes, regardless of size, and woody
	_			plants, except woody vines, less than approximately
				3 ft (1 m) in height.
0				Woody vine - All woody vines, regardless of height.
1.				
·	100	Total Cov		
50% of total cover50		total cover		
/oody Vine Stratum (Plot size:)				
	- Carried Co			
				Hydrophytic
_/		Total Cov	19	Yegetation X
50% of total cover.				Present? Yes No No

Profile Description: (Describ Depth Metrix			x Feature				
(inches) Color (moist)	%	Color (moist)	%	_Type ¹	Loc	Texture	Remarks
0-18 104K 5/4	100						
				_			-
						2	
Type: C=Concentration, D=D					ains.		PL=Pore Lining, M=Malrix.
lydric Soil Indicators: (Appl	ICADIO 10 AII LN						for Problematic Hydric Soils':
_ Histosol (A1)		Polyvalue Be					Muck (A9) (LRR O)
Histic Epipedon (A2)		Thin Dark St				_	łuck (A10) (LRR S) ed Vertic (F18) (outsida MLRA 150A,6
Black Histic (A3) Hydrogen Sulfide (A4)		Loamy Muck Loamy Gley			. 0)		ont Floodplain Soils (F19) (LRR P, S, T
Stratified Layers (A5)		Depieted Ma	-	r 2)		_	Nous Bright Loamy Soils (F20)
Organic Bodles (A6) (LRR	P. T. III	Redox Dark		61		_	RA 153B)
5 cm Mucky Mineral (A7) (Depleted Da	•	•		•	arent Malerial (TE2)
Muck Presence (A6) (LRR		Redax Depri				_	haltow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T		Mart (F10) (I		•			(Explain in Remarks)
Depleted Below Dark Surfa	•	Depleted Oc		(MLRA 1	51)		·
Thick Dark Surface (A12)		Iron-Mangan	iese Mass	e\$ (F12) (LRR O, P.	T) ³ Indic	aters of hydrophylic vegetation and
 Coest Prairie Redox (A16) 	-				, U)		land hydrology must be present.
	(LRR O, S)	Delta Ochric		-		មួយវិទ	ess disturbed or problematic.
 Sandy Mucky Mineral (S1) 		Reduced Ve	rfic (F18) (MLRA 15	0A, 150B)		
Sandy Gleyed Matrix (S4)							
Sandy Gleyed Matrix (S4) Sandy Redox (S5)		Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)		46770
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	e T III	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	9A) A 149A, 153C	, 153D)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P.		Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)		, 1530)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. lestrictive Layer (if observed		Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)		, 1530)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. Testrictive Layer (If observed) Type:	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Plestrictive Layer (if observed Type: Oepth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)		×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. Testrictive Layer (If observed) Type:	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Plestrictive Layer (if observed Type: Oepth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Plestrictive Layer (if observed Type: Oepth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Plestrictive Layer (if observed Type: Oepth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Plestrictive Layer (if observed Type: Oepth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. lestrictive Layer (If observed Type: Depth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (If observed Type; Depth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (if observed Type: Oepth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (if observed Type: Oepth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (if observed Type: Depth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	X
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (if observed Type: Depth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	X
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (if observed Type: Depth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (if observed Type; Depth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	X
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (if observed Type: Depth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (if observed Type: Depth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (if observed Type: Oepth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (if observed Type: Oepth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (If observed Type; Depth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	X
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (If observed Type; Depth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	X
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. lestrictive Layer (If observed Type: Depth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	X
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Plestrictive Layer (if observed Type: Oepth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. lestrictive Layer (If observed Type: Depth (inches):	i):	Piedmont Fidence S	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	×
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR Pestrictive Layer (if observed Type; Depth (inches):	i):	Piedmont Flo	oodplain S	oils (F19)	(MLRA 14)	A 149A, 153C	X

Project/Site. Song Sparam Salar City/County: 126/16W	C Sampling Date: 7-10-23
Applicant/Owner: Clearway Investigator(s): Sharekelly Christianal Section, Township, Range:	State. 12-3 Sampling Politi.
Landform (hillslope, terrace, etc.): Local relief (concave, convex.	none): COncast Slope (%):
Subregion (LRR or MLRA): LRKP Lat: 37 87 6 633 Long:	88 880 120 Datum: 10003 K
Soil Map Unit Name:	NWI classification:
	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal	Il Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed.)	explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point location	ons, transects, important features, etc.
Hydrophylic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Is the Sampled Area within a Wetland?	Yes_X No
Wetland point for 01-W-02	
HYDROLOGY	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Welland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soll Cracks (86)
≾ Surface Water (A1) Aquatic Fauna (B13)	★ Sparsely Vegetated Concave Surface (88) □ Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (84) Thin Muck Surface (C7)	
Iron Deposits (85) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
→ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	
Water Table Present? Yes X No Depth (inches): Water of the Seturation Present?	×
Saturation Present? Yes <u> </u>	fydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	allable:
Remarks:	

1. Coltis leavigate 3.	Absolute Dominant Indicator % Cover Species? Status COV X FAC 20 X FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant
4, 5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6	SO = Total Cover 20% of total cover:	Prevalence Index worksheet:
50% of total cover	20% of total cover:	
1		FACW species x 2 = FAC species x 3 =
3		FACU species x 4 = UPL species x 5 = Column Totals: (A) (B)
5		Prevalence index = B/A =
	= Total Cover 20% of total cover:	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
1		X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)
3. 4. 5.		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	= Total Cover 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
in the state of th		Sapring – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height
		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
0		Woody vine - All woody vines, regardless of height.
1.	= Total Cover	
50% of lotal cover;) Voody Vine Stratum (Plot size:)	20% of total cover:	
	= Total Cover	Hydrophytic Vegetation
50% of total cover:	20% of total cover:	Present? Yes No

inches)	Matrix			Features			the absence of in	
	Color (moist)	_%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	1048 41/2	90 7	5924/6	10		_^^	5. HCloy	
				_				
			1 - 111 (2) 110				2	No. 110 a II No.
	ncentration, D=Dep idicators: (Applic					ains.		Pore Lining, M=Matrix. roblematic Hydric Soils ¹ :
Histosol (/			Polyvalue Beli		-	RR S. T. U		A9) (LRR Q)
	pedon (A2)		Thin Dark Sur				•	A10) (LRR S)
Black Hist	lic (A3)		Loamy Mucky					rtic (F18) (outside MLRA 150A,B
	Sulfide (A4)		Loamy Gleyed		-2)			oodplein Soils (F19) (LRR P, S, T
	Layers (A5)	-	L Depleted Matr					Bright Loamy Soils (F20)
	Rodies (A6) (LRR P ky Mineral (A7) (LF		Redox Dark S Depleted Dark				(MLRA 15	3B) Material (TF2)
	sence (A8) (LRR U		X Redox Depres	sions (F8	(ev)		The state of the s	v Dark Surface (TF12)
	k (A9) (LRR P. T)	•	Mad (F10) (LF					in in Remarks)
_ Depleted i	Below Dark Surfac	e (A11)	Depleted Och	ic (F11) (MLRA 1	51)		
_	k Surface (A12)		fron-Mangane				•	of hydrophytic vegetation and
	irie Redox (A16) (M	_	Umbric Surfac			, ນ)		lydrology must be present,
	icky Mineral (S1) (L eyed Matrix (S4)	JAK (), S)	Delta Ochric (i Reduced Verti			OA 150E)		sturbed or problematic.
Sandy Re	•		Piedmont Floo					
Stripped N	Matrix (S6)			•		•	A 149A, 153C, 1530	D)
	ace (\$7) (LRR P, \$						_	
estrictive La	yer (if observed):						7	
Type:	/		-					· · · · · ·
Depth (inch	ies):		1/ 1/ 1/				Hydric Soll Pres	ent? Yes X No
emarks:								
emarks:								
emarks:								
emarks:								
emarks:								
emarks:								
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	Sampling Date. 2-20-2 State: 14 9 Sampling Point: 01-Whs	
al refiel (concave, convex) Z 65 7/5 Long: Yes No Are "Norm.	NWI classification: (If no, explain in Remarks.) al Circumstances* present? Yes No	
mpling point locati	ons, transects, important features, etc.	
is the Sampled Area within a Wetland?	Yes NoX	
	Secondary Indicators (minimum of two required)	
	Surface Soil Cracks (B6)	
RR U) (C1)	Surface Soli Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16)	
along Living Roots (C3) on (C4) n Tilled Soils (C6)	Dry-Season Water Table (C2) Crayfish Burrows (C6) Saturation Visible on Aerial Imagery (C9)	
rks)	Geomorphic Position (D2) Shallow Aquiterd (D3) FAC-Neutral Test (D5)	
7	Sphagnum moss (D8) (LRR T, U)	
	Opilagnosi filoss (DO) (ERR 1, 0)	
Wetland	Hydrology Present? Yes	
evious inspections), if av	ailable:	
	tion, Township, Range: al reflet (concave, convex to 7/5 Long: Yes No	

^ .	Absoluto	Dominan	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ++)	% Cover	Species?	Slatus	
Fayus granelifolia	70	×	FACU	That Are OBL, FACW, or FAC.
Brylong higgs	15	×	LUPL	Total Number of Dominant
a Ulmus amyrac-	20	×	FAC	Spacios Across All Strata:
Princy Scrolin	5		FACU	
				Percent of Dominant Species That Are OBL, FACW, or FAC: 246 (/
).				That his Cal, FACH, SI FAC.
	60	= Total Co	ver	Prevalence Index worksheet:
50% of total cover: 30	20% of	total cover	12	Total % Cover of: Multiply by.
apling Stratum (Plot size: 15)				OBL species x1 =
White amuricum.	7	×	\$AC	FACW species x 2 =
Humaniely virginiana		X	CUEL	FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A)
	10	= Total Co		Prévalence Index = B/A =
50% of total cover: 50	200/ -6	total co	vei //	Hydrophytic Vegetation Indicators:
	20% 01	total cover		1 - Rapid Test for Hydrophytic Vegetation
rub Stratum (Ploi size:)				2 - Dominance Test is >50%
	-			3 - Prevalence Index is \$3.01
	-			Problematic Hydrophytic Vegetation (Explain)
				Indicators of hydric soil and wetland hydrology mus
		_		be present, unless disturbed or problematic.
				Definitions of Five Vegetation Strata:
		Total Co	ner .	Tree - Woody plants, excluding woody vines,
50% of total cover:	20% of	total cover	:	approximately 20 ft (6 m) or more in height and 3 in.
erb Stratum (Plot size: 5 (+)				(7.6 cm) or larger in diameter at breast height (DBH
Daving carata	15		<u>upl</u>	Sapling - Woody plants, excluding woody vines,
MONTH OFFICE CONTRACTOR	_	×	MPL	approximately 20 ft (6 m) or more in height and less
Symphoxichopos orbiculatus	36	_×	PA(N	Ihan 3 in. (7.8 cm) DBH,
Cimilian SHABARRAM				Shrub - Woody plants, excluding woody vines,
				approximately 3 to 20 ft (1 to 6 m) in height.
				Herb - All herbaceous (non-woody) plants, includin
				herbaceous vines, regardless of size, and woody
				plants, except woody vines, less than approximately 3 ft (1 m) in height.
				5 4 (1 M) III rieight.
				Woody vine - All woody vines, regardless of heigh
	40 =	Total Cov	er	
50% of total cover. 40	-	total cover		
John Of Rules Cures.	20/0 01	ALDI GOVEL		
ody Vine Stratum (Plot slze:)				
ody Vine Stratum (Plot size:)	_			
ody Vine Stratum (Plot size:)	_			
ody Vine Stratum (Plot size:)				
ody Vine Stratum (Plot size:)				
ody Vine Stratum (Plot slze:)				Hydrophytic
oody Vine Stratum (Plot size:)	=	· Total Cov	er	Hydrophytic Vegetation Present? Yes No

Color (moist) % Color -13 184% 5/3 100	Redox Features lor (moist) %	Type Loc ²	<u>Texture</u>	Remarks
184×5/3 100				
pe: C=Concentration, D=Depletion, RM=Reduc				ore Lining, M=Matrix.
dric Soil Indicators: (Applicable to all LRRs,	unless otherwise noted	d.)	Indicators for Pr	oblematic Hydric Soils ³ :
	Polyvatue Below Surface) 1 cm Muck (#	(9) (LRR O)
	Thin Dark Surface (\$9) (2 cm Muck (A	(10) (LRR S)
Black Histic (A3)	Loamy Mucky Mineral (F	1) (LRR O)	Reduced Ver	tic (£18) (outside MLRA 150A,
	Loamy Gleyed Matrix (F:	2)	_	odplain Soils (F19) (LRR P, S, 1
	Depleted Matrix (F3)			right Loamy Soils (F20)
- · · · · · · —	Redox Dark Surface (F6)	-	(MLRA 153	_
,	Depleted Dark Surface (Red Parent N	
	Redox Depressions (F8))		Dark Surface (TF12)
	Mart (F10) (LRR U)	MI BA 4843	Other (Explai	n in Remarks)
	Depleted Ochric (F11) (N		Th 11-41-4	
	Iron-Manganese Masses			of hydrophytic vegetation and
- · · · · · · · · · · · · · · · · · · ·	Umbric Surface (F13) (LI Della Ochric (F17) (MLR			rdrology must be present. turbed or problematic.
· · · · · · · · · —	Reduced Vertic (F18) (M	•		torbed or problematic.
· · ·	Piedmont Floodplain Soi			
- · · · · -	Anomalous Bright Loamy		•	
Dark Surface (S7) (LRR P, S, T, U)	r mondado esignice edam,	, 00.10 (1 20) (1120		
strictive Layer (if observed):				
Туре.				
			Undele Cell Beren	nt? Yes No
Depth (inches):			Hydric Soil Prese	nt? Yes No
πarks:				

Primary Indicators (minimum of one is required, check all that apply) X Surface Water (A1) Aquatic Fauna (B13) X High Water Table (A2) X Sturation (A3) Addition (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (69) Field Observations: Surface Water Table Present? Yes No Depth (inches): Surface Soil Cracks (B6) X Sparsely Vegetated Concave Surface (B X Sparsely Vegetated Concave Surface (B2) Drainage Patterns (B10) Moss Trim Lines (B16) Dry. Season Water Table (C2) Dry. Season Water Table (C2) Crayfish Burrows (CB) Saturation Visible on Aerial Imagery (C9 X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No Depth (inches): Waterand Hydrology Present? Yes No No Depth (inches): Waterand Hydrology Present? Yes No No Waterand Hydrology Present? Yes No No No No No No No No No N	Wetland Hydrology Present?	Yes Ko	within a Wetland?	Yes No		
Aquatic Fauna (B1) Secondary Indicators (minimum of two required primary Indicators (minimum of one is required, check all that apply) Surface Soil Cracks (B6) Surface Soil Cr						
Westland Hydrology Indicators: Primary Indicators (minimum of one is required, check all that apply) Surface Soil Cracks (B6) X Surface Water (A1) Aquatic Fauna (B13) X Sparsely Vegetated Concave Surface (B X Saturation (A3) X High Water Table (A2) X Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizosphares along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced fron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9 X Algal Mat or Crust (B4) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No Depth (inches): Wathand Hydrology Present? Yes No Vater Table Present? Yes No Depth (inches): Wathand Hydrology Present? Yes No	-	Welland point	F-9 Ol-	PF0		
Primary Indicators (minimum of one is required, check all that apply) X Surface Water (A1) Aquatic Fauna (B13) X Sparsely Vegetated Concave Surface (E X Surface Water Table (A2) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Table Present? Yes X No Depth (inches): Surface Water Aguant (B13) Aquatic Fauna (B13) X Sparsely Vegetated Concave Surface (E X Sparsely Vegetated Concave (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (CB) Saturation (C4) Satur						
X Surface Water (A1)				Secondary Indicators (minimum of two required)		
High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Table (Present? Water Table (Present? Yes X No Depth (inches): Saturation (C1) Marl Deposits (B15) (LRR U) Y Drainage Patterns (B10) Moss Trim Lines (B16) Moss Trim Lines (B16) Moss Trim Lines (B16) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (CB) Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Water Able Present? Yes X No Depth (inches): Water High Water Table Present? Yes X No Depth (inches): Water High Water Table Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches): Water Hand Hydrology Present? Yes X No Depth (inches):		of one is required, check all that apply)		Surface Soil Cracks (B6)		
X Saturation (A3) X Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizosphares along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (CB) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9 X Algal Mat or Crust (B4) Thin Muck Surface (C7) Seamorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Ves No Depth (inches): Saturation Present? Yes No Depth (inches): Water All Hydrology Present? Yes No Saturation Present? Yes No Depth (inches): Water Hydrology Present? Yes No				X Sparsely Vegetated Concave Surface (88)		
Water Marks (B1)	17					
Sediment Deposits (B2)				Dry-Season Water Table (C2)		
Drift Deposits (B3)		·				
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Safuration Present? Yes No Depth (inches): Safuration Present? Yes No Depth (inches): Safuration Present? Yes No Depth (inches):						
Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Sphagnum moss (D8) (LRR T, U)	-					
Inundation Visible on Aerial Imagery (B7)		-				
Water-Stained Leaves (69) Field Observations: Surface Water Present? Water Table Present? Yes X No Depth (inches): Safuration Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches): Water Hydrology Present? Yes X No Depth (inches):			,	- 4		
Field Observations: Surface Water Present? Yes X No Depth (inches): Depth (in				7		
Water Table Present? Yes X No Depth (inches):						
Water Table Present? Yes X No Depth (inches):	Surface Water Present?	Yes X No Depth (inches):	0			
Saturation Present? Yes _/\ No Depth (inches): Watrand Hydrology Present? Yes _/\ No		V	Ď			
(includes capillary fringe)	Saturation Present?		6 Wetland	Hydrology Present? Yes X No		
	(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Describe Recorded Data (stre	am gauge, monitoring well, aerial photos, pre	evious inspections), if av	railable:		
Remarks:						

2 Distance of Source of Solid Cover	Tree Stratum (Plot size: 30 ft)	Absolute Dominant Indicator **Species** Status **X **OOL	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
That Are OBL. FACK year Arc: (A Sapling Stratum (Plot size:) 1. Sapling Stratum (Plot size:) 1. FACM species	3		Total Number of Dominant Species Across All Strate: (B)
Sapling Stratum (Plot size:	5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling Stratum (Plot size:		56 = Total Cover	
FACW species x2 = FAC species x3 = FAC species x4 = UPt species x4 = Hydrophytic Vegetation indicators: 1 · Rapid Test for Hydrophytic vegetation states and species of second vines and species of second vines and second vines and second vines approximately 20 ft (fin) or more in height and iest species of second vines approximately 20 ft (fin) or more in height and iest species of second vines approximately 20 ft (fin) or more in height and iest species vines approximately 20 ft (fin) or more in height and iest species vines approximately 20 ft (fin) or more in height and iest species vines approximately 20 ft (fin) or more in height and iest species vines approximately 20 ft (fin) or more in height and iest species vines approximately 20 ft (fin) or more in height and iest species vines approximately 20 ft (fin) or more in height and iest species vines approximately 20 ft (fi		20% of total cover: 10	
FAC species			A CONTRACTOR OF THE PROPERTY O
## ACU species			
UPL species			
Column Totals: (A) (Prevalence index = 8/A =			
Prevalence Index = 8/A = Total Cover			Column Totals: (A) (B)
= Total Cover Solw of total cover: 20% of total cover: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2			Prevalence Index = 8/4 =
Shrub Stratum (Plot size:		= Total Cover	
3 - Prevalence Index is \$3.0' Problematic Hydrophytic Vegetation* (Explain) 1 Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic. 50% of total cover. 50% of total cover. 20% of total cover: Berb Stratum (Plot size: 3 Spiling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7,6 cm) DBH. Sapiling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in (7,6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Woody vine - All woody vines, regardless of height Woody vine - All woody vines, regardless of height #Woody Vine Stratum (Plot size. 1 Tree - Woody plants, excluding woody vines, regardless of height #Woody Vine Stratum (Plot size. 1 Tree - Woody plants, excluding woody vines, regardless of height #Woody Vine Stratum (Plot size. 1 Tree - Woody plants, excluding woody vines, regardless of height #Woody Vine Stratum (Plot size. 1 Tree - Woody plants, excluding woody vines, regardless of height #Woody Vine Stratum (Plot size. 1 Tree - Woody plants, excluding woody vines, regardless of height #Woody Vine Stratum (Plot size. 1 Tree - Woody plants, excluding woody vines, regardless of height		20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation
Problematic Hydrophytic Vegetation¹ (Explain) 1			🔀 2 - Cominance Test is >50%
3			3 - Prevalence Index is \$3.0
1 Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic. 50% of total cover			Problematic Hydrophytic Vegetation ¹ (Explain)
be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody wines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in dismeter at breast height (DBH) Sapiting - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height woody vines Stratum (Plot size) 1			1.
Definitions of Five Vegetation Strata: = Total Cover 50% of total cover. 20% of total cover: Herb Stratum (Plot size:) 1 2. Sapiling — Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub — Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub — Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb — All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody wine — All woody vines, regardless of height woody vines from the plants of total cover. 20% of total cover: Woody Vine Stratum (Plot size.) 1. Ental Cover — Total Cover — T			
Tree — Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling — Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling — Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub — Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub — Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Herb — All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine — All woody vines, regardless of height woody vines for total cover. S0% of total cover. 20% of total cover: Woody Vine Stratum (Flot size. 1			
Solid of total cover. 20% of total cover	0,		Definitions of Five Vegetation Strata:
Herb Stratum (Plot size:	50% of total cover		
Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in, (7,6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 5 m) in height. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 5 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height 11. — = Total Cover			(7.6 cm) or larger in diameter at breast height (DBH).
approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woudy plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height woody vines stratum (Plot size	**************************************		Santian - Mondy plants avaluation woody viens
3.			approximately 20 ft (6 m) or more in height and less
Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 5 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height woody vines, regardless of height are total cover. 20% of total cover: Woody Vine Stratum (Plot size. 1. 2. 3. 4. 4. 4. 4. 4. 4. 5. 4. 4. 5. 4. 4			than 3 in. (7.6 cm) DBH
approximately 3 to 20 ft (1 to 6 m) in height. Herty — All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine — All woody vines, regardless of height herbaceous vines, regardless of height woody vine — All woody vines, regardless of height herbaceous vines, regardless of height woody vine — All woody vines, regardless of height herbaceous vines, regardless of height woody vine — All woody vines, regardless of height herbaceous vines, regardless of height woody vine — All woody vines, regardless of height herbaceous vines, regardless of height woody vines, regardless of height herbaceous vines, regardless of height woody vines, regardless of height herbaceous vines, regardless of height woody vines, regardless of height woody vines, regardless of height herbaceous vines, regardless of height woody vines, regardless of heig			Shrub - Woody plants, excluding woody vines,
herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height Total Cover 20% of total cover: Woody Vine Stratum (Plot size. 1. 2. 3. 4. 4. Total Cover Hydrophytic Yegetaton Proportion Proporti	5		approximately 3 to 20 ft (1 to 6 m) in height.
plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height Total Cover Woody Vine Stratum (Plot size) Total Cover	6		Herb - All herbaceous (non-woody) plants, including
8	7		
Woody vine - All woody vines, regardless of height = Total Cover 50% of total cover	8		
10 = Total Cover	9		
= Total Cover 50% of total cover 20% of total cover: Woody Vine Stratum (Plot size) 1	10		Troody vitte - An woody vittes, regaldress of neight.
50% of total cover 20% of total cover: Woody Vine Stratum (Plot size) 1	11		
Woody Vine Stratum (Plot size) 1		= Total Cover	
1		20% of total cover:	
2	Woody Vine Stratum (Plot size)		
3			
4Hydrophytic 5 Total Cover Vagetation Propert 2 Var. No. No.			
5 = Total Cover			
Total Cover Vagetation			
Propert? Var Ne	5		
WIN UT TOTAL CONST. NO. VOTAL TOTAL CONST.	ADM STATE		
Remarks: (If observed, list morphological adaptations below).			

Depth inches) 5-2	Matrix			Redox	Feature	15		m the absence	
5-2	Color (mosst)	_%_	Color (mo	oist)	%	Type1	_Loc2	Texture	Remarks
	104K-511	100						Clay	
7-10	104K 6/2	90	7.5 44	416	10	•	1.1	Clin	
10-18	10 yre 5/3	90	7,54	3416	70	C	<i>p</i>	Cly	
		<u> </u>	-	-			_		*
W.		_	*		-	-		-	-
W.								-	
ype: C=Co	ncentration, D=Depl	etion, RM=	Reduced Ma	atrix, MS	=Masker	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
***************************************	ndicators: (Applica					-			for Problematic Hydric Soils ³ :
_ Histosol ((A1)		Polyv	alue Beld	w Surfa	ice (S8) (L	RRS, T,	U) 1 cm M	luck (A9) (LRR O)
_ Histic Epi	ipedon (A2)		Thip [Dark Surf	face (S9) (LRR S,	T, U)	2 cm M	fluck (A10) (LRR S)
_ 8lack His	, ,					(F1) (LRR	(O)		ed Vertic (F18) (outside MLRA 150A,
	n Sulfide (A4)			y Gleyed		(F2)		_	ont Floodplein Sails (F19) (LRR P, \$, 1
	Layers (A5)			fled Matr				_	llous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P.		_	x Dark Şı					RA 1539)
	tky Mineral (A7) (ER			iled Dark • Dansan					arent Material (TF2)
_	isence (A8) (LRR U) :k (A9) (LRR P, T)	,	_ ∡ Redo:	x Depres F10) (LR		D)			hallow Dark Surface (TF12) (Explain in Remarks)
	Below Dark Surface	(A11)				(MLRA 1	51)	Other (сиранги көнзіку
	rk Surface (A12)	((()))				es (F12) (. Ti ³ lodic	ators of hydrophytic vegelation and
_	sirie Redox (A16) (M	LRA 150A		_		(LRR P, T		•	land hydrology must be present.
_	ucky Mineral (S1) (L					RA 151)	,		ess disturbed or problematic.
	eyed Matrix (S4)				-	(MLRA 15	0A, 150B)	
_ Sandy Re	adox (\$5)		Piedn	nont Floo	dplain S	iails (F19)	(MLRA 1	49A)	
	Matrix (S6)		Anom	alous Bri	ight Loai	my Soils (I	20) (MLF	RA 149A, 153C,	, 153D)
	face (S7) (LRR P, S	, T, U)							
estrictive L	ayer (if observed):	/							
Туре:			_						ν,
Depth (incl	hes):		_					Hydric Soll	Present? Yes No /
emarks:									
emarks:									
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Project/Site: Song & parrow Solar Coty/County: Bills	Sampling Date: 02-20-2
Applicant/Owner. Clearway	State: KY Sampling Point OWAS-C
•	
Landform (hillslope, terrace, etc.): h.h.g., Local relief (concave, co	onvex, none): (Oncod) Slope (%): 3
Subregion (LRR or MLRA) LRR P Lat: _37 075477 Lo	
Soil Map Unit Name: 63 6 3	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "N	Normal Circumstances' present? Yes 🕺 No
Are Vegetation, Soil, or Hydrology naturally problematic? (If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point to	cations, transects, important features, etc.
Hydrophytic Vegetation Present?	
Hydric Soil Present? Yes No X	
Wetland Hydrology Present? Yes No within a Wetland	d? Yes No
Remarks:	
upland point essociability	01-10-03
HYDROLOGY	
Welland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aqualic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (810)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) — Oxidized Rhizospheres along Living Roots (
Sediment Deposits (82) Presence of Reduced Iron (C4)	Crayfish Burrows (CB)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface (C7) Other (Explain in Remarks)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (69)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	opinagrioni riloss (50) (Elect 1, 5)
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
J	land Hydrology Present7 Yes NoX
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections),	if available:
Remarks:	
Remarks.	
	31

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Species'	Indicator Status FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
	30		FH(W	Total Number of Dominant Species Across All Strata: (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/E)
50% of total cover: 13.	75 20% of			Prevalence Index worksheet: Total % Cover of Multiply by. OBL species x 1 =
Sapling Stratum (Plot size:) 1	_		_	FACW species
3	=			FAGU species
5 6	\equiv	- Total Co	ver	Prevalence Index = B/A =
50% of total cover:	20% of	lotal cover		1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0 Problematic Hydrophytic Vegetation (Explain)
3				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
50% of total cover;		Total Cor lotal cover		Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size 5+1) 1. Photopoyor disgricum 2. Sorghum halepense	20	* *	FAC	(7.6 cm) or larger in diameter at breast height (DBH). Sapting – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Camer purpose	5		WIL	than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
				approximately 3 to 20 ff (1 to 8 m) in height. Herb – Alf herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
0 1			=	Woody vine – All woody vines, regardless of height.
50% of total cover 35 Voody Vine Stratum (Plot size:)	ブン = 20% of t	Total Cov total cover		
	_		=	
	=		=	Hydrophytic
		Total Cov	er	Vegetation Present? Yes X No

	cription: (Describe	co the nabili		ox Feature				
Depth (inches)	Color (moist)	% -	Color (moist)	%	Туре	Loc	Texture	Remarks
0-18	1044 5/3	Lan		_			Siltely	
	1012 -1	-			_	-		
						-		-
	Participation of the participa				10.10	-	21	PL=Pore Lining, M=Matrix.
Type: C=C	oncentration, D=De	pletion, RM=1	Reduced Matrix, N	IS=Masker	d Sand G	ains.		for Problematic Hydric Soils ³ ;
Hydric Soil	Indicators: (Appli	cable to all Li						
Histosol	I (A1)		Polyvalue B				, —	Muck (A9) (LRR O)
	pipedon (A2)		Thin Dark S					Muck (A10) (LRR S)
	istic (A3)		Loamy Muc	•		R (O)		ed Vertic (F18) (outside MLRA 150A,
	an Sulfide (A4)		Loamy Gley		(F2)		_	ioni Floodplain Soils (F19) (LRR P. S. T
	d Layers (A5)		Depleted M				_	alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark				,	RA 153B)
	ucky Mineral (A7) (L		Depleted D.					Parent Material (TF2)
_	resence (A8) (LRR	•	Redox Cep:	•	8}			Shallow Dark Surface (TF12)
_	uck (A9) (LRR P. T)		Mart (F10) (P41	Other	(Explain in Remarks)
	d Below Dark Surfa	ce (A11)	Depleted O				3145	cators of hydrophytic vegetation and
	ark Surface (A12)		Iron-Manga			-		cators of hydrology must be present.
_	rairie Redox (A16)							less disturbed or problematic.
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochri					less distained of problemana
	Sleyed Matrix (S4)		Reduced Vi					
			minder on the	1	P-32-75 400	1000 004 4		
	Redox (S5)		Piedmont F					1530)
Stripped Dark Su	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed						RA 149A, 1530	C, 153D)
Stripped Dark Su Restrictive Type.	i Matrix (S6) urface (S7) (LRR P,						RA 149A, 1530	C, 153D)
Stripped Dark Su Restrictive Type.	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
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Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
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Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
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Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~
Stripped Dark Strictive Type. Depth (in	d Matrix (S6) Inface (S7) (LRR P, Layer (if observed						RA 149A, 1530	~

Project/Sile: Song Sparras Solar	B. 11 . 1	02-21-23
Ver	City/County. Balland	Sampling Date: 02-21-23
Applicant/Owner. Court-land		State: Ky Sampling Point: 01-WAS-0
		NA
Landlorm (hillslope, terrace, etc.) hillslope	Local relief (concave, convex,	none); Concaut Slope (%): 2
Subregion (LRR or MLRA):Lat:Lat:	1.079744 Long:-4	88.88109 18 Datum: NAD83 K
Soil Map Unit Name: GSC3 JUL		NWI classification; N/A
Are climatic / hydrologic conditions on the site typical for this time of	Voc X No	
		If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant		Circumstances' present? Yes X No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, e	xplain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ig sampling point locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes X No Yes X No Yes No Yes X Yes X No Yes X YES	12 die Editipida Filea	Yes No
Welland Hydrology Present? Yes X No Remarks:	-	
Wettend point for	01-1-01	PEM/PEO
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (BB)
Surface Water (A1) Aquatic Fauna (B	13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Mari Deposits (81	·	▲ Drainage Patterns (B10)
X Saturation (A3) Hydrogen Sutfide		Mass Trim Lines (816)
		Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	. ,	Crayfish Burrows (C6)
\	ction in Tilted Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Matior Crust (B4) Thin Muck Surfact Iron Deposits (B5) Other (Explain in		★ Geomorphic Position (D2) ★ Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	·	✓ FAC-Neutral Test (D5)
Water-Stained Leaves (89)		Sphagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes NoX Depth (inche	s):	
Water Table Present? Yes No X Depth (inche		
Saturation Present? Yes Y No Depth (inche	s); 12 Wetland H	ydrology Present? Yes 🔀 No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial pho	los, previous inspections), if avail	rable:
D. — I		
Remarks:		

Tree Stratum (Plot size: 30ft) 1. Sally higher 2.	<u>% Cover</u> <u>Sp</u>		Property of Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant Species Across All Strate: (B)
5 6			Percent of Dominant Species That Are OBL, FACW, or FAC: [All
	<u> 3e</u> = Tot	al Cover	Prevalence Index worksheet:
50% of total cover: 15	20% of total	cover: 6	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 f+)		A. In	OBL species x 1 =
1. Fraking princylestics	30)	FACUL	FACW species x 2 =
2. Celtis kerilyala	10 - >	FACW	FAC species x 3 =
3			FACU species x 4 =
4			UPL species x 5 =
5			Column Totals: (A) (B)
6			Prevalence Index = B/A =
5000 - 10-1-1 7D	<u>ΨD</u> = Tota	d Cover	Hydrophytic Vegetation Indicators:
50% of total cover: 10	20% of total o	COver: 6	1 - Rapid Test for Hydrophylic Vegetation
Shrub Stratum (Plot size:)			∠ 2 - Dominance Test is >50%
1			3 - Prevalence Index is ≤3.01
2			Problematic Hydrophytic Vegetation ¹ (Explain)
			Indicators of hydric soil and wetland hydrology must
6.			be present, unless disturbed or problematic.
0			Definitions of Five Vegetation Strata:
50% of total cover:	= Total 20% of total co		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 Pt)		Ph I	(7.6 cm) or larger in diameter at breast height (DBH).
1. Cyp-12 2 tryo 54 }			Sapling - Woody plants, excluding woody vines.
3			approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4			Shrub - Woody plants, excluding woody vines,
5		_	approximately 3 to 20 ft (1 to 8 m) in height.
6			Herb - All herbaceous (non-woody) plants, including
7 8			plants, except woody vines, less than approximately
9			3 ft (1 m) in height.
10			Woody vine - All woody vines, regardless of height.
11	D _n		
	80 = Total 6		
50% of total cover: 40	_ 20% of total cov	ver: <u>/ (</u> 6	
Woody Vine Stratum (Plot size:)			
	———		
5			Hydrophytic
50% of total cover:	= Total C	over	Vegetation Present? Yes No
DUW OF IDIAL COVER.	ZUW OI IOIAI FAV	er.	

Depth	Matrix		Redox	c Feature	S				
inches)	Color (moist)	_%	Color (moist)	_ %	Type	_Loc ² _	Texture	Remarks	
0-4	104853	90	Tis 416	15			Clay		
1-18	104K 5/2	60	7.54R4/10	10	0	M	Clay		
	10484/2	30						\ -	
	1010 110		-					-	
	-							-	
_	-					_			
vne: C=C	Concentration, D=Dep	letion RM=	Reduced Matrix, MS	= Masked	Sand Gra	ains	7 ocation:	PL=Pore Lining, M=Matrix.	
-	Indicators: (Applic							for Problematic Hydric Sol	l s ³:
Histoso	I (A1)		Polyvalue Bel	low Surfa	ce (S8) (L	RR \$, T, L	J) 1 cm l	Muck (A9) (LRR O)	
Histle E	pipedon (A2)		Thin Dark Sui					Muck (A10) (LRR S)	
_ Black H	listic (A3)		Loamy Mucky	Mineral	(F1) (LRR	(0)	_	ced Vertic (F18) (outside MLI	
	en Sulfide (A4)		Loamy Gleye		F2)			ioni Floodplain Soils (F19) (Ll	
	d Layers (A5)		★ Depleted Mat					alous Bright Loamy Soils (F26	0)
	: Bodies (A6) (LRR P		Redox Dark S	•	•		•	RA 153B)	
_	ucky Mineral (A7) (LF resence (A8) (LRR U	-	Depleted Dark Redox Depres		-			^r arent Material (TF2) Shallow Dark Surface (TF12)	
_	uck (A9) (LRR P, T)	1	Mari (F10) (Li	•	o j			(Explain in Remarks)	
_	d Below Dark Surfac	e (A11)	Depleted Och		(MLRA 1	51)	_ 311181	(CAPIBILITY INTO THE INDY	
	ark Surface (A12)	. (,	Iron-Mengane				T) ³ India	cators of hydrophytic vegetati	on and
		ALRA 150A						illand hydrology must be pres	
Coast F	Prairie Redox (A16) (N			E 4 75 7541	DA 4541		unl	less disturbed or problematic.	
	Prairie Redox (A16) (N Mucky Mineral (S1) (I		Delta Ochric (P 17) (MIL	.KM 131)			reas distorbed or proprentitions.	
_ Sandy _ Sandy	Mucky Mineral (S1) (I Gleyed Matrix (S4)		Reduced Vert	lic (F18) (MLRA 15	-	İ	reas alstorace of problemotion.	
_ Sandy i _ Sandy i _ Sandy i	Mucky Mineral (S1) (I Gleyed Matrix (S4) Redox (S5)		Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A)		
_ Sandy l _ Sandy l _ Sandy l _ Strippe	Mucky Mineral (S1) (I Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	.RR (), S)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	İ		
_ Sandy _ Sandy _ Sandy _ Strippe _ Dark St	Mucky Mineral (S1) (I Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A)		
_ Sandy _ Sandy _ Sandy _ Stripper _ Dark Strictive	Mucky Mineral (S1) (I Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A)		
Sandy Sandy Sandy Strippe Dark Strictive Type:	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Stripper Dark St estrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530		
Sandy Sandy Sandy Strippe Dark Strictive Type:	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Stripper Dark St estrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Stripper Dark St estrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Stripper Dark St estrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Stripper Dark St estrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Stripper Dark St estrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Stripper Dark St estrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Stripper Dark St estrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Stripper Dark St estrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Stripper Dark St estrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Stripper Dark St estrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Sandy Stripper Dark St Patrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Sandy Siripper Dark St Patrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Sandy Siripper Dark St Patrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Sandy Stripper Dark St Patrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Sandy Stripper Dark St Patrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Stripper Dark St estrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Sandy Stripper Dark St Patrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Sandy Siripper Dark St Patrictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy Sandy Sandy Sandy Siripper Dark St Strictive Type: Depth (in	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	
Sandy I Sandy I Sandy I Sandy I Stripper Dark St strictive Type: Depth (ir	Mucky Mineral (S1) (U Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):	.RR (0, S) i, T, U)	Reduced Vert Piedmont Flor	lic (F18) (odplain S	MLRA 15 oils (F19)	(MLRA 14	19A) 19A) 1A 149A, 1530	C, 153D)	

Project/Site. Spay Sparrow Solar	City/County. Rollard Sampling Date: 2-21-23
Applicant/Owner:CLUNTUM	State: 1Ky Sampling Point: 61-WA)-0
	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): [] [] [] [] []	Local relief (concave, convex, none): Concast Slope (%): 3
Subregion (LRR or MLRA): LRRP Lat: 37.	
Soll Map Unit Name: 6503	NWI classification: 1/1/1
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes 😾 No (If no, explain in Remarks.)
Are Vegetation Soil, or Hydrologysignificantly	disturbed? Are "Normal Circumstances" present? Yes 📈 No
Are Vegetation, Soil, or Hydrology naturally pro	blematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No X	Is the Sampled Area within a Wetland? Yes NoX
Remarks:	
HYDROLOGY	01- 01- 04
	Consideration indicates (white and of the consideration)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Sediment Deposits (B2) Presence of Reduce	(LRR U)
Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available:
Remarks:	

Tree Stratum (Plot size: 30)	0/ 0		Indicator	Dominance Test worksheet:
1	% Cover	Species?	518105	Number of Cominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across Ali Strafa: (B)
4				Percent of Dominant Species 0% That Are OBL, FACW, or FAC: (A/B
_				Prevalence Index worksheet:
contractive and				Total % Cover of: Mulliply by:
50% of total cover:	20% ai	I total cover	r:	OBL species x 1 =
1				FACW species x 2 =
2,				FAC species x 3 =
3		-		FACU species x 4 = UPL species x 5 =
5	_	_		Column Totals: (A) (B)
6.				Prevalence Index = B/A =
		= Total Co	ver	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of	total cover	r:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)				± 2 - Dominance Test is >50%
12		-		3 - Prevalence Index is \$3.0°
3.				Problematic Hydrophylio Vegetation¹ (Explain)
4				Indicators of hydric soil and welland hydrology must
5.		-		be present, unless disturbed or problematic.
6.		Total Co		Definitions of Five Vegetation Strata:
50% of total cover:				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5ft)				(7.6 cm) or larger in diameter at breast height (DBH).
2. Limium surowelum	70	->	FACUS 1101	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
2. Limium surpureum 3. Shiring posicio			FACU	than 3 in. (7.6 cm) DBH.
4			1 112.000	Shrub - Woody plants, excluding woody vines,
5				approximately 3 to 20 ft (1 to 5 m) in height,
6				Herb – All herbacsous (non-woody) plants, including herbaceous vines, regardless of size, and woody
7.				plants, except woody vines, less than approximately
9				3 ft (1 m) in height.
10				Woody vine - All woody vines, regardless of height.
11,	-75			
	-	= Total Co		
50% of total cover. <u>4ち</u> Woody Vine Stratum (Plot size:)	20% of	total cover		
1				
2				
3				
4		-		
0	-	= Talai Co	161	Hydrophytic Vegetation
		. +1+. +4		Present? Yes / No

inches)	Color (moint)	%		x Featurer		100	Tendure	Remarks
3-14-	Color (moist)		Color (moist)	_%_	Type	Loc*	Texture	Remarks
16	109R4/3	10 1	14x 5/6	3_			Sittely_	
	10412 4/2	7						
				_	_			
				_				
				$\overline{}$				
100 000	7.000 12.00		0.00000000000	-	2.00			and the second of the second
-	ncentration, D=Dep					ains.		Pore Lining, M=Matrix.
	ndicators: (Applica	a Die 10 ali LX						roblematic Hydric Solls ³ :
_ Histosoli			Polyvalue Bel					
	ipedon (A2)		Thin Dark Sur					(A10) (LRR S)
_ Black His			Loamy Mucky			0)		rtic (F18) (outside MLRA 150/
	n Sulfide (A4)		Loamy Gleye	,	F2)			oodglein Soils (F19) (LRR P, S
	Layers (A5)	T 115	Depleted Met		len			Bright Loamy Soils (F2D)
	Bodies (A6) (LRR P, cky Minerat (A7) (LR		Redox Dark S				(MLRA 15	38) Material (TF2)
_	cky Mineral (A7) (LN esence (A8) (LRR U		Depleted Dari Redox Depres					matenal (+FZ) v Derk Surface (TF12)
_	esence (A6) (LRR D. ck (A9) (LRR P. T)		Redox Depre: Mari (F10) (Li	•	v)			w Derk Sunace (TF12) Ein In Remarks)
_	ck (As) (LRK P, 1) Below Dark Surface	e (A11)	Mari (F 10) (Ei Depleted Och		IML BA 14	511	— Attial (cybis	in in indicates)
	rk Surface (A12)		Iron-Mangane		-		1 ³ todicators	of hydrophytic vegetation and
_	alris Redox (A16) (N	(I RA 150A)	_				•	hydrology must be present,
_	ucky Mineral (S1) (L		Delta Ochric (. ~,		sturbed or problematic.
	leyed Matrix (S4)		Reduced Vert		-	OA. 150B)	511-504 51	albiboo or problemana.
_	edox (\$5)		Piedmont Flor			-	A)	
	Matrix (S6)			•		•	149A, 153C, 1531	0)
	face (S7) (LRR P, S	, T, U)		_				
	ayer (if observed):					- 1		
Type.								
Depth (inc	hast		-				Hydric Soil Pres	ent? Yes No
	1103/-						Nyulic adil Fies	ENT. 163140
emarks:								

Landform (hillstope, terrace, etc.): hill days Local Subregion (LRR or MLRA): LRRP Lat: 37. 6 Soil Map Unit Name: 6503 Are climatic / hydrologic conditions on the site typical for this time of year? Year Vegetation 501 , or Hydrology 512 significantly disturbed Are Vegetation 700 , Soil 700 or Hydrology 700 naturally problem	rbed? Are "Normal Circumstances" present? Yes X No
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Yes No No	Is the Sampled Area within a Wetland? Yes X No
Remarks:	01-W-55 PEM
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) ✓ Surface Water (A1) — Aquatic Fauna (B13) High Water Table (A2) — Mari Deposits (B15) (LR ✓ Saturation (A3) — Hydrogen Suffide Odor (— Water Marks (B1) — Oxidized Rhizospheres a — Sediment Deposits (B2) — Presence of Reduced Iro — Drift Deposits (B3) — Recent Iron Reduction in ✓ Algal Mat or Crust (B4) — Thin Muck Surface (C7) — Iron Deposits (B5) — Other (Explain in Remark — Inundation Visible on Aenal Imagery (B7) — Water-Stained Leaves (B9) Field Observations:	C1) Moss Trim Lines (B16) along Living Roots (C3) Ory-Season Water Table (C2) on (C4) Crayfish Burrows (C8) a Trilled Soits (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Remarks:	

ree Stratum (Plot size:)			! Indicator ! Status	Dominance Test worksheet: Number of Dominant Species 7
		-		That Are OBL, FACW, or FAC:(A
-		-		Total Number of Dominant 3
	_	-		Species Across All Strata: (B
		-	-	Percent of Commant Species (0(0
		-	_	That Are OBL, FACW, or FAC(A
		= Total Co		Prevalence Index worksheet:
50% of total cover:	$\overline{}$			Total % Cover of: Multiply by:
sapling Stratum (Plot size:)	_ 20%0	Total Cove		OBL species x 1 =
				FACW species x 2 =
	_	-		FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) {
		-		
		= Total Co	wer	Prevalence Index = B/A =
50% of lotal cover:			-	Hydrophytic Vegetation Indicators:
hrub Stratum (Plot size:)	_ 20/40	Total cove		1 - Rapid Test for Hydrophytic Vegetation
Thub Stratum (FISC SIZE.	-			▼ 2 - Dominance Test is >50%
		_		3 - Prevalence Index is ≤3.0
	_	-	_	Problematic Hydrophytic Vegetation1 (Explain)
		_	_	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Five Vegetation Streta:
		- T-1-1 O-		Demnitrons of Five Vegetation Streta:
EGG(of label asset)		= Total Co		Tree - Woody plants, excluding woody vines,
50% of total cover:	20% 0	LOISI COA6		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)
lerb Stratum (Plot size: 5777)	40	*	FACUA	
Zea mays	25	Ý	INPL	Sapling – Woody plants, excluding woody vines. approximately 20 ft (6 m) or more in height and less
	75	-5	FIYW	than 3 in. (7,6 cm) DBH.
			THE	Shrub - Woody plants, excluding woody vines,
Rumex Sp				approximately 3 to 20 ft (1 to 6 m) in height.
7			_	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody
			_	plants, except woody vines, less then approximately
			_	3 ft (1 m) in height.
				Woody vine - All woody vines, regardless of height.
)				
·	40	_		
		= Total Co		
50% of total cover: 45	20% of	total cover	u 12	
(oody Vine Stratum (Plot size:)		_		
				Hydrophytic
		= Total Co	ver .	Vegetation
#B#4 7: 14	20% 01	f total cover	r:	Present? Yes No
50% of total cover:				

Depth (inches)	Metrix			Redox	Features	S			
	Color (moist)		Calar	(maist)	_%_	Type ¹	_Loc2	Texture	Remarks
04	10485/2	85 10	SUR	colle	5	C	M	SC	
	109R5/3	10	-				-		
4-18	DUR 517		-Uy	5/4	75	<u>c</u>	M	50	-
110	CINSIC	13 4	1	VICE		_			
Hydric Soll Histosol	oncentration, D=Dep		Rs, ur		wise note ow Surfa	ed.) ce (S8) (L	.RR S, T,	indicators U) 1 cm N	PL=Pore Lining, M=Matrix for Problematic Hydric Soils*: fuck (A9) (LRR O) fuck (A10) (LRR S)
Black H	en Sulfide (A4)		Lo	amy Mucky amy Gleye	Mineral	(F1) (LRF		Reduc	ed Vertic (F18) (outside MLRA 150A,8 ont Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5) Bodies (A6) (LRR P	. T. U I	X De	epleted Mat	rix (F3)			Anoma	ilous Bright Loamy Soils (F20) RA 153B)
	ucky Mineral (A7) (LF			epleted Dari					arent Material (TF2)
	resence (A8) (LRR U)	_	edox Depre	•	8)			hallow Dark Surface (TF12)
	uck (AS) (LRR P, T)	- (044)		ari (F10) (Li			F41	Other	(Explain in Remarks)
	d Below Dark Surfac ark Surface (A12)	e (A11)		epleted Och n-Mangane				. Ti lodic	ators of hydrophytic vegetation and
_	rairie Redox (A16) (F	KLRA 150A)		nbric Surfa					land hydrology must be present,
Sandy N	Mucky Mineral (S1) (I	RR O, S)		alta Ochric (-			ess disturbed or problematic
	Gleyed Matrix (S4)			educed Veri				_	
	Redox (S5)			edmont Flor			•	•	1520)
	i Matrix (S6) Irface (S7) (LRR P, S	T 125	AI	ioriiaibus B	ngin Loai	ny sons (rzoj (ME	RA 149A, 153C	, 1330)
Restrictive	Layer (if observed):	· ·							
Type:	shark:		÷					Usadala Enti	Present? Yes X No
Depth (in Remarks:	ches):		-0					Hydric Soil	Present/ Yes _ A No

Project/Site: SuySparacu Sular	City/County Ballery	Sampling Date: 2-21-23
Applicant/Owner: Parway		State: Ky Sampling Point: 01- WAS-
Cic Cic	Section, Township, Range:	
Investigator(s): CK 5 KV		
	Local relief (concave, convex,	
	. 027777 Long:	
Soil Map Unit Name: 6563		NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant	y disturbed? Are "Norma	al Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally p		explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin		ons, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Welland Hydrology Present? Yes No X	ls the Sampled Area within a Wetland?	Yes No
Remarks:	•	
upland point	for 01-1	W-05
HYDROLOGY		-1
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply		Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	•	Sparsely Vegetaled Concave Surface (B6)
High Water Table (A2) Mari Deposits (B1	• •	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide		Moss Trim Lines (B16)
	heres along Living Roots (C3)	-
Sediment Deposits (B2) Presence of Redo Page 1 (B3)	ction in Tilled Soils (C6)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Recent Iron Redu Algal Mat or Crust (B4) Thin Muck Surfac	• •	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in	• •	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	,	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes NoX Depth (inche	5):	
Water Table Present? Yes No X Depth (inche	5):	
Saturation Present? Yes NoX_ Depth (Inche	s): Wetland	Hydrology Present? Yes No _K
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos previous inspections) if av	allable:
Describe recorded Data (etream gauge, monitoring from serial prio	tos, previous irispectorisy, ir usi	Diame.
Remarks:		
THE REPORT OF THE PARTY OF THE		
		v 4

Total Number of Deninent Species Across AS Strata 2 (0) Species Across AS Strata 2 (0) Ferent of Deninent Species Cover Species Across AS Strata 2 (0) Formular Species Cover Species Co	Tree Stratum (Plot size:)	% Cover	Species	l Indicator Status	Dominance Test worksheet: Number of Dominant Species
3. Spaces Acoss All Strats.					That Are OBL. FACW, or FAC: (A)
## Percent of Dominant Species That Are Oils, FACKI, of FACE; Go					
Folial Cover 50% of total cover: 20% of total cover: 50% of total cover: 20% of total cover: 50% of total	4				Percent of Dominant Species
Total Cover				-	That Are OBL, FACW, or FAC: (A/B)
Total Cover Sanima Stratum (Plot size:	6				Prevalence Index worksheet:
Sanina Stratum (Plot size:	FOR/ of total groups				Total % Cover of. Multiply by:
FACVV species		20% 0	total cove		OBL species x 1 =
FAC species					FACW species x 2 =
5. Shrub Stratum (Plot size:		7/			
Shrub Stratum (Piot size:					
5. Shrub Stratum (Plot size:		0==			
Prevalence Index = BIA = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% of total cover: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0° - Problematic Hydrophytic Vegetation ¹ (Explain) 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0° - Problematic Hydrophytic Vegetation ¹ (Explain) 1 - Definitions of Fire Vegetation Strata: Tree - Woody plants, excluding woody wines, approximately 20 ft (6 m) or more in height and 3 in (7 6 m) or larger in diameter at breast height (DBI-Stratum (Plot size: 50% 2 - X 1 - 2 - X					Column Totals: (A) (B)
Shrub Stratum (Plot size:	6,				Prevalence Index = B/A =
Shrub Stratum (Plot size:					Hydrophytic Vegetation Indicators:
1		20% of	total cove	ar:	
Problematic Hydrophytic Vegetation* (Explain) Problematic Hydrophytic Vegetation* (Explain) Indicators of hydric soil and wellend hydrology must be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height end at its fire. Herb Stratum (Flot size: 50% of total cover: 20% of total cover: 4, 1, 2 m Aproximately 20 ft (6 m) or more in height end at its fire. Saping – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.8 cm) DBH. Saping – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.8 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 8 m) in height. Herb – All herbaceous (non-woody) plants, including harbaceous vines, regardless of size, and woody plants, excluding woody vines, less than approximatel 3 ft (1 m) in height. Woody Vine – All woody vines, less than approximatel 3 ft (1 m) in height. Woody Vine Stratum (Flot size:) 1	The state of the s				
3.					
Tindicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBF stratum CPS+ NLM) Trift CWM CPS+ NLM Trift CWM CPS+ NLM Shrub - Woody plants, excluding woody vines, approximately 30 ft (6 m) or more in height and less than 3 in (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 8 m) in height. Herb - All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody wines, regardless of size, and woody plants, except woody wines, regardless of height. Woody Vine - All woody vines, regardless of height. - Total Cover 20% of total cover: Woody Vine Stratum (Plot size:) - Total Cover 20% of total cover: Yespatation Present? Yes No Present? Yes No Present?				-	Problematic Hydrophylic Vegetation (Explain)
be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI-3). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in (7.6 cm) or more in height and less than 3 in (7.6 cm) or more in height and less than 3 in (7.6 cm) or more in height and less than 3 in (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 8 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, excluding woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height Woody vine - All woody vine	4	-			Neutrology of budge and and budge budge and
Trial Cover	5.				
Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (D6f). 2. Trit cum cest with 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (D6f). 3.					Definitions of Five Vegetation Strata:
Solid of total cover 20% o			= Total Co	PVEF	Tree - Woody plants, excluding woody tippe
Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.8 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 30 ft (6 m) or more in height and less than 3 in. (7.8 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 8 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height woody vines are gardless of height woody vines. Proximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height woody vines are gardless of height woody vines. Proximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height woody vines. Proximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height woody vines. Proximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height woody vines. Proximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height woody vines, approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height woody vines, approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height woody vines, approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height woody vines, approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height woody vines, approximately 3 ft (1 m) in height. Hydrophytic vegetation Present?		20% of	total cove	н	approximately 20 ft (6 m) or more in height end 3 in.
2. Triticum Cestulum 2.0 X 14	TICID OF CITATION				(7.6 cm) or larger in diameter at breast height (DBH).
Shrub – Woody plants, excluding woody vines, approximately 3 to 20 fl (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. 9. 10. 11. = Total Cover 50% of total cover: Woody Vine Stratum (Plot size: 1. 2. 3. 4. 5. —————————————————————————————	1. 200 mays	<u> 00</u>	<u>×</u>		
5 approximately 3 to 20 ft (1 to 8 m) in height. Herb - All herbaceous (non-woody) plants, includir herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximatel 3 ft (1 m) in height. 9	z. Triticum cestivum z.	20	<u>x</u>	- LIAL	
herbaceous vines, regardless of size, and woody plants, except woody wines, less than approximatel 3 ft (1 m) in height. 9.	7				
Description Plants, except woody vines, less than approximated 3 ft (1 m) in height.	6,				Herb - All herbaceous (non-woody) plants, including
8	7				
10					3 ft (1 m) in height.
Total Cover				-	Woody vine - All woody vines, regardless of height.
= Total Cover 50% of total cover:					
50% of total cover: 20% of total cover: Woody Vine Stratum (Plot size:) 1	110				
Woody Vine Stratum (Plot size:) 1 2 3 4 5 = Total Cover Wydrophytic Vegetation Yes No Total Cover Yes No	50% of total couer:				
1	Accessed the self-control of the self-control	20 /8 01	TOTAL COME		
2	manufacture of the second of t				
4 Hydrophytic = Totel Cover Vagetation Present? Yes No					
= Total Cover Vagetation Present? Yes No					
= Total Cover Vagetation Present? Yes No	4				
= Total Cover Vagetation Present? Yes No	5				Hydrophytic
50% of total cover: 20% of total cover:			= Total Co	yver	Vegetation
Remarks: (If observed, list morphological adaptations below)	50% of total cover:	20% of	total cove	г:	rreagnic resNO
nomeno, pi assertas, nat morphological acaptavario colony.	Remarks: (If obsérved, list morphological adaptations be	elow).			

Depth (inches)	Matrix		Redo	x Feature	8		n the absence	
A CONTRACTOR	Color (moist)	%	Color (moist)	%	Type'	Loc²	Texture	Remarks
0-18	109x 5/4	100					50	
						-		-
				_				-
								-
								0
				_	_			-
Type: C=C	oncentration, D=Dep	letion, RM=R	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
	Indicators: (Applic							for Problematic Hydric Solis ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	RR S. T. L	J) 1 cm l	Auck (A9) (LRR O)
_	pipedon (A2)		Thin Dark Su			-	. —	Auck (A10) (LRR S)
Black Hi			Loamy Muck					ed Vertic (F18) (outside MLRA 150A,8
_	n Suffide (A4)		Loamy Gleye	-			Piedm	ont Floodplain Soils (F19) (LRR P, S, T
_ , ,	Layers (A5)		Depleted Mai		-			alous Bright Loamy Soils (F20)
_	Bodies (A6) (LRR P	, T, ป)	Redox Dark	Surface (F	6)		(MLI	RA 153B)
	icky Mineral (A7) (LF		Depleted Dar	k Surlece	(F7)		Red P	arent Material (TF2)
	esence (AB) (LRR U		Redox Depre	ssions (F	8)		Very S	Shallow Dark Surface (TF12)
_ 1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other	(Explain in Remarks)
_ Depteted	d Below Dark Surface	e (A11)	Depleted Oct	nric (F11)	(MLRA 1	51)		
_ Thick Do	ark Surface (A12)		Iron-Mangani	ese Mass	es (F12) (LRR O, P,	•	sators of hydrophytic vegetation and
Coast Pr	rainie Redox (A16) (N	VLRA 150A)	Umbric Surfa	ce (F13)	(LRR P, T	, U)	We	land hydrology must be present,
_ Sandy M	lucky Mineral (S1) (L	LRR O, S)	Delta Ochric					ess disturbed or problematic.
_ Sandy G	Bleyed Matrix (S4)		Reduced Ver	• •				
Sandy F	ledox (S5)		Piedmont Flo			•		
			Anomalous B	triobt Loss	mv Sails (F20) (MUR	A 149A, 1530	, 1530}
Stripped	Matrix (S6)			angent com	.,,			•
Stripped Dark Su	rface (S7) (LRR P, S			ang-it cou			1	
Stripped Dark Su				n-g-n coa	.,		1	
Stripped Dark Su	rface (S7) (LRR P, S			ingrit Coa	.,			
Stripped Dark Surestrictive to	rface (S7) (LRR P, S Layer (if observed):			y trees				Present? Yes NoX
Stripped Dark Sur lestrictive t Type:	rface (S7) (LRR P, S Layer (if observed):		_	July Cou				. 7./
Stripped Dark Sur !estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			angent com				. 7./
Stripped Dark Sur !estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			and the contract of				. 7./
Stripped Dark Sur !estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			and the contract of				. 7./
Stripped Dark Sur estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingili coa				: 7./
Stripped Dark Sur estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingili coa				: 7./
Stripped Dark Sur estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cou				: 7./
Stripped Dark Sur estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cour				: 7./
Stripped Dark Sur estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingili Cou				: 7./
_ Stripped _ Dark Sur estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cour				: 7./
Stripped Dark Surestrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cour				: 7:/
Stripped Dark Surestrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cour				: 7./
Stripped Dark Surastrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cour				: 7:/
Stripped Dark Surastrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cou				: 7:/
Stripped Dark Surastrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cour				: 7:/
Stripped Dark Surestrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cour				: 7:/
_ Stripped _ Dark Surestrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cour				: 7./
_ Stripped _ Dark Sur estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cour				: 7./
_ Stripped _ Dark Sur estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cour				: 7./
Stripped Dark Sur estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Cour				: 7./
_ Stripped _ Dark Sur estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Tyll Court				: 7:/
Stripped Dark Sur estrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):							: 7./
_ Stripped _ Dark Surestrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):							: 7:/
Stripped Dark Surastrictive (Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):							: 7:/

Project/Site Sony Sparker Solar City/Co	ounty: 6 World Sampling Date: 2-21-23
Applicant/Owner: Olewway	Sate Ky Sampling Point: Ol-WAS
	n, Township, Range - NA
	elief (concave, convex, nc re): COncave Slope (%): 2
Landform (hillstope, terrace, etc.): Toe Stopes Local r	File (concave, convex, nr. 1e): Concave Slope (%):
	6948 Long: 88 - 8128 24 Datum: NAD 83
Soil Map Unit Name:	NWI classification:
Are dimatic / hydrologic conditions on the site typical for this time of year? Ye	rs No (If no. explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	ed? Are "Normal Circumstances" present? Yes 🗶 No
Are Vegetation, Soil, or Hydrology naturally problemat	tic? (If needed, explain any enswers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing samp	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes 😾 No	
Hydric Soit Present? Yes X No.	Is the Sampled Area
Welland Hydrology Present? Yes V No No	within a Wetland? Yes X No No
Remarks:	
wethersprint for	01-W-OCO PEM
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR	u) 🔀 Drainage Patterns (B10)
X Saturation (A3)	
Weter Marks (B1) Oxidized Rhizospheres ald	
Sediment Deposits (B2) Presence of Reduced Iron	
Drift Deposits (B3) Recent Iron Reduction in 1 Algal Mat or Crust (B4) Thin Muck Surface (C7)	Filled Soils (CB) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remarks	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (89)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No 🔀 Depth (inches);	
Water Table Present? Yes X No Depth (inches):	0
Saturation Present? Yes X No Depth (inches): O	Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous)	ious inspections), if available:
S	
Remarks:	71
	- h
	VI.

EGETATION (Five Strata) - Use scientific ha	mica or pr	arita.		Sampling Point:
Tree Stratum (Plot size:) 1	% Cover	Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	=	_	_	Total Number of Dominant U
4.			_	Species Across All Strate (B) Percent of Dominant Species
56			_	That Are OBL, FACW, or FAC: (A/B)
		= Total Cor		Prevalence Index worksheet: Total % Cover of: Multiply by:
50% of total cover Sapling Stratum (Plot size:	20% of	tolal cover		OBL species x1 =
1. Salix Aigra	15	*	OCL	FACW species x 2 =
2				FAC species x 3 =
3.				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
6	- Ic		_	Prevalence index = B/A =
50% of total cover: 7-3		= Total Cov		Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size:)	Z 20% or	10121 COVER		1 - Rapid Test for Hydrophytic Vegetation
1				2 - Dominance Test is >50%
2.				3 - Prevalence Index is ≤3.01
3.				Problematic Hydrophytic Vegetation ¹ (Explain)
4.				¹Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Five Vegetation Strata:
		= Total Cov	rer	Tree - Woody plants, excluding woody vines,
50% of total cover:	20% of	total cover	:	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
Veronia Gigantes	30	<u> </u>	FAC	Sapting – Woody plants, excluding woody vines,
2. Carex Millerachie		~~~	FACUL	approximately 20 ft (8 m) or more in height and less than 3 in, (7.6 cm) DBH.
Ayrostic Stolonitora	30		FACU	
	_			Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5	-		_	
i,	-		_	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody
(·			_	plants, except woody vines, less than approximately
J			_	3 ft (1 m) in height.
J		_		Woody vine – All woody wines, regardless of height.
10		_	_	
11.,	90	= Total Cov		
50% of lotal cover: 45		total cover		
Noody Vine Stratum (Plot size:)		July Cover		
I.				
	-			
3.				
1				
5				Hydrophytic
		= Total Cov	er	Magnipulan
5				
50% of total cover:	20% of	total cover		Present? Yes Y No

epih	ription: (Describe Mairix		Redox F	eatures				
nches)	Color (moist)		olor (moist)	%	Type	Loc ²	Texture	Remarks
0-18	10 92 5/2	90 10	04x 14ce	10			<u>sc.</u>	
ydric Soll in Histosol (Histosol (Histosol (Histosol (Black His Hydrogen Stratified Organic E 5 cm Muc Muck Pre 1 cm Muc Depleted Thick Der Coast Pra Sandy Mu Sandy Gl Sandy Re Stripped M	pedon (A2) tic (A3) tic (A3) tic (A4) Layers (A5) Sodies (A6) (LRR P cky Minerel (A7) (LR sence (A8) (LRR U ck (A9) (LRR P, T) Below Dark Surfac k Surface (A12) talrie Redox (A15) (I eyed Matrix (S4) edox (S5) Matrix (S6) ace (S7) (LRR P, S eyer (if observed):	# (A11)		se noted v Surface v Surface vice (S9) (I dineral (F2 dineral (F3) dface (F6) Surface (F6) c (F11) (M e Masses (F13) (LF 17) (MLR (F18) (MI plain Soil	(S8) (L (S8) (L (RR S, 1) (LRR () (F12) ((F12) ((RR P, T, A 151) (RR 15) (F19)	RR S, T, U T, U) O) S1) LRR O, P, T U) OA, 150B) (MLRA 149	Indicators for 1 cm Mui 2 cm Mui 2 cm Mui Reduced Piedmon (MLRA Red Peré Very Sha Other (E) T) Indicate wetter unless	ent Material (TFZ) sillow Dark Surface (TF12) xplain in Remarks) ors of hydrophytic vegetation and and hydrology must be present, s disturbed or problematic.

Project/Site: Sany Space Solar	City/County:	Ballery	Sampling Date: 2-71-73
/ / / /	Oity/Coolity		Sampling Point: Ol-V-1/45
(CI-)			Sampling Point.
Investigator(s):		hip, Range:	3
Landform (hillslope, terrace, etc.): LRRP			0 Vn (4 Jk Slope (%): 3
Subregion (LRR or MLRA): * * * * \$ \ Jyv-4 Let	37.02(09 810	Lang: <u>88.853</u>	010 Datum: NAO85
Soil Map Unit Name: LoD3		NWI o	lassification: NA
Are climatic / hydrologic conditions on the site typical for this ti	me of year? Yes 💢	No (if no, expla	in in Remarks.)
Are Vegetation, Soil, or Hydrology sign	•		nces" present? Yes <u>*</u> No
Are Vegetation, Soil, or Hydrology nati		(If needed, explain any	
SUMMARY OF FINDINGS - Attach site map sh	•		
Hydrophylic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X	nmpled Area Wetland? Yes	s NoX_
Remarks:			
HYDROLOGY	tor	01-10-00	
Wetland Hydrotogy Indicators:		Secondan	Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	l anniu'i		xe Soil Crecks (B6)
Surface Water (A1) Aquatic Fa			ely Vegetated Concave Surface (B8)
	sits (B15) (LRR U)		age Patterns (B10)
	Sulfide Odor (C1)		Trim Lines (B16)
	hizospheres along Living		eason Water Table (C2)
	of Reduced Iron (C4)		sh Burrows (C8)
Drift Deposits (83) Recent Iro	Reduction in Tilled Soil	s (C6) Satura	ition Visible on Aerial Imagery (C9)
	Surface (G7)	Geom	orphic Position (D2)
	lain in Remarks)		w Aquitard (D3)
Inundation Visible on Aerial Imagery (87)		_	Neutral Test (D5)
Water-Stained Leaves (89)		5phag	num moss (D8) (LRR T, U)
Fleld Observations:			
Surface Water Present? Yes No Depth		-	
	(inches):	-	Present? Yes No
Saturation Present? Yes NoX_ Depth (includes capillary fringe)	(inches):	Wetland Hydrology I	Present/ Yes No
Describe Recorded Data (stream gauge, monitoring well, aer	ial photos, previous insp	ections), if available:	
Remarks:			

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

Charles berner	Absolute		nt Indicator	Dominance Test worksheet:
ree Stratum (Plot size:)	% Cover	Species	3 Status	Number of Dominant Species
-				That Are OBL, FACW, or FAC(A)
		-		Total Number of Dominant 7
				Species Across All Strata: (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: O, [H (AF)
				That Ale OBL, FACIV, BI FAC (A
		- Total O		Prevalence Index worksheet:
				Total % Cover of: Multiply by:
50% of total cover:	20% of	i lotal com	ét:	OBL species x 1 =
apling Stratum (Plot size:)	-			FACW species x 2 =
				FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
		-		Column Totals: (A) (E
			-	Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
50% of total cover:	20% of	filotal covi	er:	1 - Rapid Test for Hydrophytic Vegetation
hrub Stratum (Plot size:)				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0°
				Problematic Hydrophytic Vegetation¹ (Explain)
				Problematic Hydrophytic Vegetation (Expenii)
				1.
				Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
		-		Definitions of Five Vegetation Strata:
		= Total Co	over	Tree - Woody plants, excluding woody vines,
50% of total cover:	20% of	total cove	er:	approximately 20 ft (6 m) or more in height and 3 in.
lerb Stratum (Plot size: 500 stratum)				(7.6 cm) or larger in diameter at breast height (OBH).
Salidago Christians	. 15	Х	FACU	Sapling - Woody plants, excluding woody vines.
Jonania grantea	10		FPK	approximately 20 ft (6 m) or more in height and less
Zen mays	25	*	UPL	then 3 in. (7.6 cm) DBH.
All mays				and Manda design
Allium vincale	<u> </u> 0	X	FIACU	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
(cwim brashtone	10	_X_	upl	approximately 5 to 20 ft (1 to 5 m) in height.
Dauras -curada	Jo	X_	url	Herb - All herbaceous (non-woody) plants, including
				herbaceous vines, regardless of size, and woody
				plants, except woody vines, less than approximately 3 ft (1 m) in height.
				S to the my in rieight.
				Woody vine - All woody vines, regardless of height.
-		_		
713	30		4.25	
50% of total cover:	20% of	total cove	er: IU	
loody Vine Stratum (Plot size:)				
		-		
				Hydrophytic
	\equiv	= Total Ca	over	Managarian by
	_			
	20% of			Managarian by

Depth	cription: (Describe Matrix			x Feature	is.			
(inches)	Color (moist)	%	Color (moist)	_ %	Type'	_Loc ²	Texture	Remarks
0-18	109K 5/4	100	-	_		_	siltely _	
				_				
				-	.—	_		
	_							
Type: C=C	concentration, D=Deg	Vetion RM=Re	duced Matrix M5		d Sand Gr	ains.	² Location: PL	≠Pore Lining, M=Matrix
	Indicators: (Applic		Rs, unless other	wise not	ted.)		Indicators for	Problematic Hydric Solls*:
Histoso			Polyvalue Be					k (A9) (LRR O)
	pipedon (A2) listic (A3)		Thin Dark Su Loamy Mucky					k (A10) (LRR S) Verko (F18) (outside MLRA 150A,i
_	en Sulfide (A4)		Loamy Mucky Loamy Gleye			(0)	_	Floodplain Soils (F19) (LRR P. S. T
	d Layers (A5)		Depleted Mat		(· -)		_	s Bright Learny Soils (F20)
	Bodies (A6) (LRR P	γ, τ. υ)	Redox Dark :		F6)		(MLRA	· · · · ·
_ •	ucky Mineral (A7) (Li		Depleted Dar	k Surface	e (F7)		Red Parer	nt Material (TF2)
Muck P	resence (A8) (LRR U) }	Redox Depre	ssions (F	8)			low Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (L	-			Other (Exp	plain in Remarks)
	d Below Dark Surfac	æ (A11)	Depleted Oct		•		- 4	
_	erk Surface (A12)		Iron-Mengan-					rs of hydrophylic vegetation and
_	Prairie Redox (A16) (I Musku Misarat (S1) (Umbric Surfa Delta Ochric	, ,		, uj		d hydrology must be present, disturbed or problematic.
	Mucky Mineral (S1) (LKK O, OJ			CKW (91)			distillated of problematic.
	Claued Matrix (S4)		Reduced Ver	他一个医生果实	/MI RA 15	NA 150RL		
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver Piedmont Flo					
Sandy F	Redox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A)	i3D)
Sandy F		S, T, U)	Piedmont Flo	odplain S	Soils (F19)	(MLRA 14		33D)
Sandy f Sinpped Dark St	Redox (S5) d Matrix (S6)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A)	53D)
Sandy f Siripped Dark Su Restrictive Type:	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Stripped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. (Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A)	
Sandy f Simpped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Simpped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Simpped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su testrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su testrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Simpped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Simpped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su Restrictive Type:	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Simpped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Simpped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Simpped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	
Sandy f Siripped Dark Su testrictive Type: Depth (in	Redox (S5) d Matrix (S6) urface (S7) (LRR P. S Layer (if observed)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A) A 149A, 153C, 15	

Project/Site: Son 5 SApplicant/Owner: Sk Sk Shapplicant/Owner: Sk Sk Shapplicant/Owner: Sk Sk Shapplicant/Owner: Sk Sk Shapplicant/Owner: Sk Sk Sk Shapplicant (Sk Sk Section Local RRP Lat: 57.07	tion, Township, Range: al refief (concave, convex,	. none): <u>Covernul</u> Slope (%): <u>O</u>	
Soil Map Unit Name:	D3		NWI classification:
Are climatic / hydrologic condition	ons on the site typical for this time of year?	Yes & No	(If no. explain in Remarks.)
	, or Hydrology significantly distu		al Circumstances" present? Yes X No
Are Vegetation, Soil	, or Hydrology naturally problem	natic? (il needed,	explain any answers in Remarks.)
SUMMARY OF FINDING	S Attach site map showing sai	mpling point location	ons, transects, important features, etc
Hydrophytic Vegetation Preser Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No YesX No	is the Sampled Area within a Wattand?	Yes No
Remarks:	Wethord point for Sup Workerl	- M - 16	PF0
HYDROLOGY			
Wetland Hydrology Indicator	19:		Secondary Indicators (minimum of two required)
	of one is required; check all that apply)		Surface Soil Cracks (B6)
X Surface Water (A1) X High Water Table (A2) X Saturation (A3)	Aquatic Fauna (B13) Mart Deposits (B15) (LR Hydrogen Sulfide Odor		Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres		Dry-Season Water Table (C2)
\$ediment Deposits (B2)	Presence of Reduced In		Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iran Reduction is		Saturation Visible on Aerial Imagery (C9)
X Algai Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Remai		Shallow Aquiterd (D3)
Inundation Visible on Aeria		•	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9			Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes X No Depth (inches): Yes X No Depth (inches): Yes X No Depth (inches): Yes X No Depth (inches):		Hydrology Present? Yes X No
Describe Recorded Data (stream	am gauge, monitoring well, aerial photos, pr	revious inspections), if ava	eilable:
Remarks:			
5			

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

Time Stratum (Plot size: 30 % 4		Absolute Dominant Indicator	Dominance Test worksheet:
A	Tree Stratum (Plot size: 30 14)		
Total Number of Dominant Species Aceas Al Stratat Total Number of Dominant Species Aceas Al Stratat Species Aceas Al Stratat Total Number of Dominant Species Aceas All Stratat Total Number of Dominant Species Aceas Aceas All Stratat Total Number of Dominant Species Aceas Aceas All Stratat Total Number of Dominant Species Aceas Aceas All Stratat Total Number of Dominant Ace Aceas Aceas All Stratat Total Number of Dominant Ace Aceas Aceas All Stratat Total Cover Dominance Index verthere Ace Aceas All Stratat Total Cover Aceas Aceas All Stratat Total Cover Aceas Aceas Aceas All Stratat Total Cover Aceas Aceas Aceas All Stratat Total Cover Aceas Aceas Aceas All Stratat Total Cover Aceas Aceas Aceas Aceas All Stratat Total Cover Aceas	Arox rubitam	20 V FAC	That Are OBL FACW or FAC: (A)
Species Across All Strata: (B) Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 10 (A/B) Sapilina Stratum (Plot size: 5 +) 1. Chiss legacinatia. 20 X Chicu 2. Firsy has passed things at 25 X FACU 2. Firsy has passed things at 25 X FACU 3. Species Stratum (Plot size: 44 UPL species X4 - UPL species X4 - UPL species X4 - UPL species X4 - UPL species X4 - UPL species X4 - UPL species X4 - UPL species X5 - Column Tolats: (A) (B) Prevalence index = BIA = Hydrophytic Vegetation (Explain) Shoub Stratum (Plot size: 3 - 1 - Total Cover Service Stratum (Plot size: 3 - Total Cover Service Stratum (Plot size: 3 - Total Cover Service Stratum (Plot size: 3 - Total Cover Service Stratum (Plot size: 3 - Total Cover Service Stratum (Plot size: 3 - Total Cover Service Stratum (Plot size: 3 - Total Cover Service Stratum (Plot size: 3 - Total Cover Service Stratum (Plot size: 3 - Total Cover Service Stratum (Plot size: 3 - Total Cover Service Stratum (Plot size: 3 - Total Cover Service Stratum (Plot size: 3 - Total Cover Service Stratum Service Stratum Service Stratum Service Stratum Service			marvas obe, mori, armo.
Species Across All Strate: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 101 (A/B) Prevalence Index worksheet: 102 (A/B) Prevalence Index worksheet: 103 (B) Sapiling Stratum (Plot size: 15 (C) (A/B) Prevalence Index worksheet: 103 (B) Prevalence In	2,		Total Number of Dominant
1	3,		Species Across All Strata: (B)
1	4.		
Treal (Percent of Dominant Species
2	3,		That Are OBL, FACW, or FAC: (A/B)
Total Screen of	6		The state of the second state of
Solid Stratum (Plot size: 5 5 5 5 5 5 5 5 5		2 o = Total Cover	
Septing Stratum (Plot size: 15 + 1) 1. CATA'S (PLANTICALLA) 2. Fray this passage of the size of the	50% of total cover: 10		Total % Cover of: Multiply by:
Collis C			OBL species x 1 =
FACL FACL			
2. FACUS pecies X =	1. Celtis guigata	20 ×. FACO	
### A	2. Fray hus manufacturing	15 X FACUS	
UPL species			FACU species x 4 =
Column Totals:			
Prevalence Index = BIA = Hydrophytic Vegetation Indicators: 1.	4.		
Prevalence index = BiA = Hydrophytic Vegetation indicators: 1 - Rapid Feat for Hydrophytic Vegetation Shrub Stratum (Plot size:) - Rapid Feat for Hydrophytic Vegetation	5.		Column Totals:(A)(B)
Shrub Stratum (Plot size:			
Shnub Stratum (Plot size:	0	· I com	Prevalence Index = B/A =
1. Rapid Test for Hydrophytic Vegetation 1. 2. 2. 2. 2. 2. 2. 2.		45 = Total Cover	Hydrophytic Vegetation Indicators:
Shnub Stratum (Plot size:) 1	50% of total cover. 7.7.	5 20% of total cover:	
3 - Prevalence Index is \$3.0' Problematic Hydrophytic Vegetation' (Explain) 4 -		<u> </u>	
Problematic Hydrophysic Vegetation (Explain) 1	Shrub Stratum (Plot size:)		X 2 - Dominance Test is >50%
Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and all in. (7.6 cm) all raiger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and all in. (7.6 cm) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 30 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, excluding woody vines, approximately 3 ft (1 m) in height. Woody Vine Stratum (Plot size:) 1	1,		3 - Prevalence Index is \$3.01
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and a in. (7,6 cm) or larger in diameter at breast height (DBH). Saping – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height (DBH). Saping – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height (DBH). Saping – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height (DBH). Saping – Woody plants, excluding woody vines, approximately 30 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, approximately 3 ft (1 m) in height. Woody Vine – All woody vines, leas than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height. Hydrophytic. Vegetation Present? Yes No	2.		_
**Indicators of hydric soil and wetland hydrology must be present, unless disluted or problematic.			Problematic Hydrophytic Vegetation (Explain)
5. be present, unless disturbed or problematic. 6.	3		
be present, unless disturbed or problematic. 6.	4		Indicators of hydric soil and wetland hydrology must
Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Company Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Wloody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine - All woody vines, regardless of height. Woody Vine Stratum (Plot size:)	5		be present, unless disturbed or problematic.
Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine - All woody vines, regardless of height. 5 = Total Cover 50% of total cover: 2 5 20% of total cover: Woody Vine Stratum (Plot size:) 1			
Solve of total cover: 20% of total cover: 20% of total cover: 3pproximately 20 if (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 3pproximately 20 if (6 m) or more in height and less than 3 in. (7.6 cm) or more	6		Delinitions of Five Vegelation Strata:
S0% of total cover:		= Total Cover	Tree - Woody plants, evoluting woody since
Herb Stratum (Plot size:	50% of lotal cover:	28% of total cover:	
Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.5 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 30 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 50% of total cover: 2 5 20% of total cover: Woody Vine Stratum (Plot size:) 1.			
2	Herb Stratum (Plot size: 517	VAT	(v.o only or orgen in order
2	1. (Kanunicelus MKpiller)	2 X Inc	Sapling – Woody plants, excluding woody vines,
3			
Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine - All woody vines, regardless of height. Woody Vine Stratum (Plot size:)			than 3 in. (7.6 cm) DBH.
5	J		
8	4		Shrub - Woody plants, excluding woody vines,
8.	5.		approximately 3 to 20 ft (1 to 6 m) in height.
herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height			Mark All horhocogue (non woodu) plants including
plants, except woody vines, less than approximately 3 ft (1 m) in height	0		
8	7		
9	8.		3 ft (1 m) in height
10	A		o w (1 m) no no gov
10	9		Woody vine - All woody vines, regardless of height.
5	10		
5	11.		
50% of total cover:		5 - Total Course	
Woody Vine Stratum (Plot size:) 1	2 -		
1	50% of total cover: _ 4 5	20% of total cover:	
1	Woody Vine Stratum (Plot size:		
2	,		
3			
4,	2		
4,	3.		1
5 = Total Cover			1
= Total Gover Yegelation Yegelation Present? Yes No	**1		
50% of total cover: = Total Cover	5		Hydrophytic
50% of total cover: 20% of total cover: Present? Yes No		= Total Cover	Venetation Y
20% 01 total cover 20% 01 total cover	EDS/, of fotal payers		Present? Yes No
Remarks: (If observed, list morphological adaptations below).			
	Remarks: (If observed, list morphological adaptations belo	rw).	

Sampling Point: 01-6345-13

Depth	Matrix		Redo	Feature	\$			
(inches)	Color (maist)	%	Color (moist)	%	Type'	Loc²	Texture	Remarks
)-3	104R 4/12	40 4	07.5484/6	16		M	SC	
18	1048 412		542 4/6	15	C	M	5.0	
						-		
					-		-	
							-	+
Type: C=Co	oncentration, D=Dep	eletion, RM=Re	aduced Matrix, MS	=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix
-	ndicators: (Applic	able to all LR			-			for Problematic Hydric Soils ¹ :
_ Histosol			Polyvalue Bel				. —	Muck (A9) (LRR O)
	ipedon (A2)		Thin Dark Şui				_	Muck (A10) (LRR S)
_ Black His			Loamy Mucky			(0)		ced Vertic (F18) (outside MLRA 150A,
	n Sulfide (A4)		Loamy Gleye		(F2)			iont Floodplain Soils (F19) (LRR P, \$, 1
_	Layers (A5)		🔀 Depleted Mat					alous Bright Loamy Solls (F20)
Organic	Bodies (A6) (LRR P	י, Τ, ປ)	Redox Dark S				•	RA 153B)
5 om Mu	cky Mineral (A7) (LI	RR P, T, U) 🤚	Depleted Dark	k Surface	(F7)			arent Material (TF2)
Muck Pro	esence (A8) (LRR U	ון	Redox Depre	ssions (F	8)			Shallow Dark Surface (TF12)
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (LI	RR U)			Other	(Explain in Remarks)
Depleted	Below Dark Surfac	e (A11)	Depleted Och	ric (F11)	(MLRA 1	51)		
Thick Da	rk Surface (A12)		Iron-Mengane	se Mass	es (F12) (LRR O, P,	T) ² India	cators of hydrophytic vegetation and
Coast Pr	airie Redox (A16) (I	MLRA 150A)						tland hydrology must be present,
	ucky Mineral (S1) (I		Delta Ochric (F17) (ML	RA 151)	-	นคโ	ess disturbed or problematic
	leyed Matrix (S4)		Reduced Veri		-	OA. 150B)		ŕ
	edox (\$5)		Piedmont Flor		•			
	Matrix (S6)		Anomalous B	•		•		: 153D)
	face (\$7) (LRR P, \$							
	ayer (if observed):	-						
Type Depth (inc	hest:		-				Hydric Soll	Present? Yes X No
emarks:	/						I II Jane	10

ne Vegetation, Soil		elematic? (If needed, o	I Circumstances" present? Yes Xexplain any answers in Remarks.) ons, transects, important features. Yes No X	
Watland Hydrology Present? Remarks:	upland point f	3- 01-W	1-07	
YDROLOGY				
Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aer Water-Stained Leaves (B	of one is required; check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reducer Recent Iron Reduction Thin Muck Surface (Content (Explain in Retical Imagery (B7))	(LRR U) lar (C1) res along Living Roots (C3) d Iron (C4) on in Tilled Soils (C6) C7)	Surface Soil Cracks (85) Sparsely Vegetated Concave Surface Drainage Patterns (810) Moss Trim Lines (816) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphegnum moss (D8) (LRR T, U)	
Fleid Observations: Surface Water Present? Water Table Present? Saturation Present? includes capillary fringe)	Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches): Yes no Depth (inches):	Wetland H	Hydrology Present? Yes No	×

A CONTRACTOR OF THE CONTRACTOR	Abouted Dominant Indicates	Dominance Test worksheet:
Tree Stratum (Plot size: 30 Pt)	Absolute Dominant Indicator % Cover Species? Status	
1. Pipus tueda	30 X LIPL	Number of Cominant Species That Are OBL, FACW, or FAC
2. Prunus Scroting	T FACU	
		Total Number of Dominant
	20 X FAC	Species Across All Strata: (B)
4. Fogus grandifalis	_16X_FACIA	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6.		That Are OBL, FACTY, OF FAC (AB.
0	70 = Total Cover	Prevalence Index worksheet:
34	= 16lal Cover 20% of total cover: 124	Total % Cover of: Multiply by:
	20% of total cover: 17	OBL species x 1 =
Sapling Stratum (Plot size:)		
1,		FACW species x 2 = FAC species x 3 = C(0)
2		FAU species OO x3=
3.		FACU species 20 x4= 35
4.		UPL species 30 x 5 x 156
		Column Totals: <u>80</u> (A) <u>320</u> (B)
5		2/
0		Prevalence Index = B/A = 25
	= Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)		2 - Dominance Test is >50%
1,		3 - Prevalence Index is ≤3.01
2,		Problematic Hydrophytic Vegelation* (Explain)
3.		
4		No. of control of bounds and boundaries of bounds
5		Indicators of hydric soll and wetland hydrology must be present, unless disturbed or problematic.
s		Definitions of Five Vegetation Strate:
0		Deminions of Five Vagelacion Scale.
	= Total Cover	Tree - Woody plants, excluding woody vines,
	20% of total cover	approximately 20 it (6 m) or more in height and 3 in.
Herb Stratum (Plot size. 5 Pt)		(7.6 cm) or larger in diameter at breast height (DBH).
Rahurchlus nissidus	10 X FAL	Sapling - Woody plants, excluding woody vines,
2		approximately 20 ft (6 m) or more in height and less
3		than 3 in. (7.6 cm) DBH.
4.		Shrub - Woody plants, excluding woody vines.
		approximately 3 to 20 ft (1 to 6 m) in height.
5		
D		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody
7		plants, except woody vines, less than approximately
8		3 ft (1 m) in height.
9		Woody vine - All woody vines, regardless of height.
10		MOODLY VIIII - AN WOODLY VIIIES, IEGARDISSS DI HEIGHT.
11.		
	= Total Cover	
EAW of total answer - E	20% of total cover:	
A TOTAL CONTROL OF THE CONTROL OF TH	EV /9 OF TOTAL COVER.	
Woody Vine Stratum (Plot size:)		
1		
2,		
3		
4		
5		Hydrophylic
	= Total Cover	Venetation
50% of lotal cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).	

Depth Malrix Redox Features	2 cm Muck (A10) (LRR \$) Reduced Vertic (F18) (outside MLRA Piedmont Floodplain Soils (F19) (LRR Anomelous Bright Loamy Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) T) Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic	150A,B P, S, T)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) Black Histic (A3) Learny Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Redox Depressions (F8) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, Coast Prairie Redox (A16) (MLRA 159A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	Indicators for Problematic Hydric Solls*: 1 cm Muck (A9) (LRR D) 2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA Piedmont Floodplain Soils (F19) (LRR Anomalous Bright Learny Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation a welfend hydrology must be present, unless disturbed or problematic	150A,B P, S, T)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Redox Depressions (F8) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	Indicators for Problematic Hydric Solls*: 1 cm Muck (A9) (LRR D) 2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA Piedmont Floodplain Soils (F19) (LRR Anomalous Bright Learny Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation a welfend hydrology must be present, unless disturbed or problematic	150A,B P, S, T)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Redox Depressions (F8) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Depleted Octric (F11) (MLRA 151) Thick Dark Surface (A12) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Octric (F17) (MLRA 151)	Indicators for Problematic Hydric Solls*: 1 cm Muck (A9) (LRR D) 2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA Piedmont Floodplain Soils (F19) (LRR Anomalous Bright Learny Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation a welfend hydrology must be present, unless disturbed or problematic	150A,B P, S, T)
Histosol (A1) Histosol (A2) Histosol (A3) Hodragen Sulfide (A4) Histosol (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Hodragen Sulfide (A7) Hodragen Sulfide (A8) Hydrogen Sulfide (A4) Hodragen Sulfide (A4) Hodragen Sulfide (A4) Hodragen Sulfide (A6) Indicators for Problematic Hydric Solls*: 1 cm Muck (A9) (LRR D) 2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA Piedmont Floodplain Soils (F19) (LRR Anomalous Bright Learny Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation a welfend hydrology must be present, unless disturbed or problematic	150A,B P, S, T)	
Histosol (A1) Histosol (A2) Histosol (A3) Hodragen Sulfide (A4) Histosol (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Hodragen Sulfide (A7) Hodragen Sulfide (A8) Hydrogen Sulfide (A4) Hodragen Sulfide (A4) Hodragen Sulfide (A4) Hodragen Sulfide (A6) Indicators for Problematic Hydric Solls*: 1 cm Muck (A9) (LRR D) 2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA Piedmont Floodplain Soils (F19) (LRR Anomalous Bright Learny Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation a welfend hydrology must be present, unless disturbed or problematic	150A,B P, S, T)	
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histoc Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Redox Depressions (F8) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	Indicators for Problematic Hydric Solls*: 1 cm Muck (A9) (LRR D) 2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA Piedmont Floodplain Soils (F19) (LRR Anomalous Bright Learny Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation a welfend hydrology must be present, unless disturbed or problematic	150A,B P, S, T)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Redox Depressions (F8) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Depleted Octric (F11) (MLRA 151) Thick Dark Surface (A12) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Octric (F17) (MLRA 151)	Indicators for Problematic Hydric Solls*: 1 cm Muck (A9) (LRR D) 2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA Piedmont Floodplain Soils (F19) (LRR Anomalous Bright Learny Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation a welfend hydrology must be present, unless disturbed or problematic	150A,B P, S, T)
Histosol (A1) Histic Eplpedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Strom Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR P, T) Tom Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Tom Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 159A) Delta Ochric (F17) (MLRA 151) Delta Ochric (F17) (MLRA 151)	1) 1 cm Muck (A9) (LRR 0) 2 cm Muck (A10) (LRR 3) Reduced Vertic (F18) (outside MLRA Piedmont Floodplain Soils (F19) (LRR Anomelous Bright Learny Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Oark Surface (TF12) Other (Explain in Remarks) T) Indicators of hydrophytic vegetation a welfend hydrology must be present, unless disturbed or problematic	150A,B P, S, T)
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR P, T, U) Muck Presence (A8) (LRR P, T) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Mari (F10) (LRR U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 159A) Sandy Mucky Mineral (S1) (LRR O, S) Thin Dark Surface (A11) Thin Dark Surface (A12) Thin Dark Surface (A13) Loamy Mucky Mineral (F2) Loamy Mucky Mineral (F1) (LRR O, P, Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)	2 cm Muck (A10) (LRR \$) Reduced Vertic (F18) (outside MLRA Piedmont Floodplain Soils (F19) (LRR Anomelous Bright Loamy Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) T) Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic	P, \$, T)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Redox Depressions (F8) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, Coast Prairie Redox (A16) (MLRA 159A) Delta Ochric (F17) (MLRA 151)	Reduced Vertic (F18) (outside MLRA Piedmont Floodplain Soils (F19) (LRR Anomalous Bright Loamy Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic	P, \$, T)
Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Minerel (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 159A) Hoamy Gleyed Matrix (F2) Depleted Matrix (F2) Pedox Dark Surface (F6) Redox Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	Piedmont Floodplain Soils (F19) (LRR Anomalous Bright Learny Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic	P, \$, T)
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Some Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) Comparison of the Muck (A9) (LRR P, T) Depleted Dark Surface (F8) Comparison of the Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 159A) Sandy Mucky Mineral (S1) (LRR O, S) Depleted Matrix (F3) Redox Dark Surface (F7) Mari (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)	Anomalous Bright Learny Solls (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic	and
Organic Godies (A6) (LRR P, T, U) Redox Dark Surface (F6) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Redox Depressions (F8) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganess Masses (F12) (LRR O, P, Coast Prairie Redox (A16) (MLRA 159A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	(MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) T) Indicators of hydrophylic vegetation a webend hydrology must be present, unless disturbed or problematic	
5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 159A) Sandy Mucky Mineral (S1) (LRR O, S) Depleted Dark Surface (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)	Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophylic vegetation a weband hydrology must be present, unless disturbed or problematic	
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 159A) Sandy Mucky Mineral (S1) (LRR O, S) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)	Other (Explain in Remarks) T) Indicators of hydrophytic vegetation a welfand hydrology must be present, unless disturbed or problematic	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 159A) Sandy Mucky Mineral (S1) (LRR O, S) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P. Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)	T) Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic	
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O. P. Coast Prairie Redox (A16) (MLRA 159A) Umbric Surface (F13) (LRR P. T. U) Sandy Mucky Mineral (S1) (LRR O. S) Delta Ochric (F17) (MLRA 151)	welland hydrology must be present, unless disturbed or problematic	
Coast Prairie Redox (A16) (MLRA 159A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	welland hydrology must be present, unless disturbed or problematic	
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic	
	•	
O		
Sandy Gleyed Metrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14		
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14 Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR		
Dark Surface (S7) (LRR P, S, T, U)	. 1400, 1000, 1000)	
Restrictive Layer (if observed):		
Туре		./
Depth (inches):	Hydric Soil Present? Yes No_	X
Remarks:		

Soil Map Unit Name:	NWI classification: PUBHK NWI classification: PUBHK Io (If no, explain in Remarks.) Are "Normal Circumstances" present? YesX No If needed, explain any answers in Remarks.) Int locations, transacts, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Samp Yes X No Within a We	*
Wetland Hydrology Present? Yes No No	
Wetland point for Wetla	PEM-PFU
	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres along Living R Sediment Deposits (B2) Presence of Reduced Iron (C4) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (4) Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations:	Surface Soil Cracks (B6) Sparsely Vegetaled Concave Surface (B8) Drainage Patterns (B10) Moss Tim Lines (B16) oots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Surface Water Present? Water Table Present? Yes X No 0 Depth (inches): Saturation Present? Yes X No 0 Depth (inches): Saturation Present? Yes X No 0 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No No No
Remarks:	

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

Sampling Point: 01-WAY 15

Tree Stratum (Plot size: 30 Pt)	% Cover	Dominant Species?	Stelus	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
1. Salex might 2. Fraxities paperayl unner 3.	40	<u>*</u>	FACW	Total Number of Dominant Species Across All Strats: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FACT (A/B)
6	80	= Total Co	/Pr	Prevalence Index worksheet:
50% of total cover. 40				Total % Cover of:Multiply by:
Sapling Stratum (Plot size: 15 ft)				OBL species x 1 =
Fryshus runneysburnism	20		FAKW	FACW species x 2 =
				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
6				Prevalence Index = B/A =
		= Total Co		Hydrophytic Vegetation Indicators:
50% of total cover: 10	20% of	total cover	:4	1 - Repid Test for Hydrophylic Vegetation
Shrub Stratum (Plot size:)				2 - Dominance Test is >50%
1				3 - Prevalence Index is ≤3.0°
2				Problematic Hydrophytic Vegetation* (Explain)
3				
4				Indicators of hydric soll and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
		= Total Cov	ver .	Tree - Woody plants, excluding woody vines,
50% of total cover:)		total cover		approximately 20 ft (8 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
3	/	_	_	than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
5.	_			approximately 3 to 20 ft (1 to 6 m) in height.
6				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody
3			_	plants, except woody vines, less than approximately 3 ft (1 m) in height.
10			=	Woody vine - All woody vines, regardless of height.
11,	_			
		= Total Cov		
50% of total cover:	20% of	total cover	_	
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover				Present? Yes No
Remarks: (If observed, list morphological adaptations below	w).			

Depth Matrix		x Features			Parado
inches) Color (moist) %	Color (maist)	<u>% Type</u>		<u>Texture</u>	Remarks
7-18 104R5/2 80	104% 6/6	10 C	JCA.	5,6	
10425 3 10					
	-		-	-	
	-			-	
Type: C=Concentration, D=Depletion, RN	A-Dadwood Matrix NC			2) neahear	PL=Pors Lining, M=Matrix.
ydric Soil Indicators: (Applicable to a			indiris.		for Problematic Hydric Solis ³ :
		low Surface (SB)	II PR S T		luck (A9) (LRR O)
_ Histosol (A1) _ Histic Epipedon (A2)		rface (S9) (LRR :			luck (A10) (LRR S)
_ Histic Epipedon (A2) _ Black Histic (A3)		Mineral (F1) (LF			ed Vertic (F18) (outside MLRA 150A,)
Hydrogen Sulfide (A4)	Loamy Glayer	. , , ,	in O)		ont Floodplain Soils (F19) (LRR P, S, T
Stratified Layers (A5)	✓ Depleted Material ✓ De				lous Bright Loamy Solls (F20)
	Redox Dark S				tA 153B)
Organic Bodies (A5) (LRR P. T, U)5 cm Mucky Mineral (A7) (LRR P, T, U		k Sudace (F7)		_	rent Material (TF2)
	✓ Redox Deprei			_	hallow Dark Surface (TF12)
Muck Presence (A8) (LRR U)	Mart (F10) (Li				Explain in Remarks)
1 cm Muck (A9) (LRR P, T) Depleted Below Cark Surface (A11)		nic (F11) (MLRA	454)	(Explain in Neillerkey
		ese Masses (F12)	-	T) India	alors of hydrophylic vegetation and
Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 15)					and hydrology must be present.
Sandy Mucky Mineral (S1) (LRR O, S		(F17) (MLRA 151			ess disturbed or problematic.
_ Sandy Gleyed Matrix (S4)		tic (F18) (MLRA 1			as dialabes of provenience.
Sandy Gibten Matrix (S4)	- Kennnen Aeur	(IC (LID) (IN FUN	130M, 130M	,	
	Diedmast Else	adelala Coite (C1)	N FEEL DA 1.	4041	
Sandy Redox (S5)		odpialn Soits (F1:			4530)
Sandy Redox (S5) Stripped Matrix (S6)		odpialn Soils (F1: inght Loamy Soils			153D)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U)					153D)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed):					1530)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type:				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).					<u> </u>
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type:				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P. S. T. U) estrictive Layer (if observed): Type: Depth (inches).				RA 149A, 153C,	

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County:___ Project/Site: Sampling Point: OI - WAS- 1 Co Applicant/Owner. Investigator(s): Local relief (concave, convex, none): Contaut Landform (hillslope, terrace, etc.): 113/2/2 37.522723 Long - 68, 893946 LRRP Subregion (LRR or MLRA): ___ NWI classification: Soil Map Unit Name: ___ Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No _____ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes X Are Vegetation ______, Soil ______, or Hydrology ______ significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation ______, Soil ______, or Hydrology ______ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Sail Present? within a Wetland? Wetland Hydrology Present? Remarks: HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) ___ Aquatic Fauna (B13) ___ Drainage Patterns (B10) High Water Table (A2) Mari Deposits (B15) (LRR U) ___ Moss Trim Lines (816) Saturation (A3) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) __ Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sediment Deposits (B2) Saturation Visible on Aenal Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) __ Drift Deposits (B3) ___ Thin Muck Surface (C7) Geomorphic Position (D2) Algal Mat or Crust (B4) __ Shallow Aquitard (D3) Other (Explain in Remarks) fron Deposits (B5) ___ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U). Water-Stained Leaves (89) Field Observations: Yes _____ No 🔀 Depth (inches):_ Surface Water Present? Depth (inches): ______ Water Table Present? Welland Hydrology Present? Yes ____ No __X Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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

Sampling Point: Oldung-16

V Committee of the Comm	Absolute Dominant Indi	cator Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? St	Number of Dominant Species
1,		That Are OBL, FACW, or FAC (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		
5		Percent of Dominant Species
6.		That Are OBL, FACW, or FAC: (A/B
6		Prevalence Index worksheet:
	= Total Cover	Total % Cover of: Multiply by:
50% of total cover:	20% of total cover:	QBL \$pecies x 1 =
Sapling Stratum (Plot size:)		
1		FACW species x 2 =
2		FAC species x 3 =
3.		FACU species x 4 =
		UPL species x 5 =
		Column Totals: (A) (B
5		
5		Prevalence Index = B/A =
	= Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of total cover:	
Shrub Stratum (Plot size:)		1 - Kapid Test for Hydrophysic vegetation
		2 - Dominance Test is >50%
		3 - Prevalence Index is \$3.01
		Problematic Hydrophytic Vegetation1 (Explain)
3		
		 Indicators of hydric soil and welland hydrology must
5		be present, unless disturbed or problematic.
6,		Definitions of Five Vegetation Strata:
	= Total Cover	
	20% of total cover	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 C+)	20 % 01 10181 00461	(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Piot Size.	(b ×	
1. Zen maje	60 × U	
2. Lamen purposeum	15	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) OBH.
3. Randon culus hispides	_ b _ F	A C I Mari S III. (7.5 cm) DSI I.
		Shrub - Woody plants, excluding woody vines,
		approximately 3 to 20 ft (1 to 8 m) in height.
5.		Herb – All herbaceous (non-woody) plants, including
		herbaceous vines, regardless of size, and woody
		plants, except woody vines, less than approximately
		3 ft (1 m) in height.
)		Woody vine - All woody vines, regardless of height.
0		
l1		
	45 = Total Cover	
50% of total cover: 4	- 40	1
	LUVU OI TOTOI COVEI.	
Voody Vine Stratum (Plot size:)		
·		_
2		
		Hydrophydic
	= Total Cover	
E00/ -1/4/-1 -2		Present? YesNoX
	20% of total cover:	
Remarks: (If observed, ilst morphological adaptations t	pelow).	

Depth	Matrix		Redo	x Feature			n the absence	
(inches)	Color (moist)	% (Color (moist)	%	Туре	LQC ²	Texture	Remarks
-18	1044 5/4	100					5.4	
10	101.011							7
							-	
	-	·			_		-	-
						Gran	2,	£ 1997
	Concentration, D=Dep					ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Solls*:
	Indicators: (Applic	able to all ERF						
Hisloso	, ,	-	_ Polyvalue Be					Auck (A9) (LRR O)
_	pipedon (A2)	-	Thin Dark Su					fluck (A10) (LRR S)
_	listic (A3)	-	_ Loarny Muck	-		(0)		ed Vertic (F18) (outside MLRA 150A,6
	en Sulfide (A4)	_	Loamy Gleye		F2)			ont Floodplain Soils (F19) (LRR P, S, T)
_	id Layers (A5) - Radios (A6) (LBB B	-	_ Depleted Ma		·e1		_	alous Bright Loamy Soils (F20)
	: Bodies (A6) (LRR P		Redox Dark :				•	RA 153B)
	ucky Mineral (A7) (LI kosoco (AB) (LRR I		Depleted Date Redox Depre		-		_	arent Material (TF2)
	resence (A8) (LRR L uck (A9) (LRR P, T)		Kegox Depre Mari (F10) (L		0)			ihallow Derk Surface (TF12) (Explain in Remarks)
_	ed Below Dark Surface	_	Depleted Oct		ANI DA 4	E4.1	000	(Explain in Remarks)
_	ark Surface (A12)	~ (A)	Iron-Mangan				T) ³ leafin	ators of hydrophylic vegetation and
_	Prairie Redox (A16) (I	MI RA 150A)	Umbric Surfa					land hydrology must be present,
	Mucky Mineral (S1) (_ Delta Ochric					ess disturbed or problematic
	Gleyed Malrix (S4)		_ Reduced Ver			0A. 150B		odd a didiolog or propre mano
	Redox (S5)	_	_ Predmont Flo					
	d Matrix (56)	_				•	RA 149A, 153C	. 153D)
	urface (S7) (LRR P. S	s. T. UI		•	,	, •	· • ·	
	Layer (if observed)						1	
	rayer (ii opserved)							
	Cayer (II observed)							
Туре:			4				Hydric Soll	Present? Yes No X
Type: Depth (in	iches):		4				Hydric Soll	Present? Yes No
Туре:							Hydric Soll	Present? Yes No
Type: Depth (in							Hydric Soli	Present? Yes NoX
Type: Depth (in							Hydric Soli	Present? Yes NoX
Type: Depth (in							Hydric Soli	Present? Yes NoX
Type: Depth (in							Hydric Soli	Present? Yes No
Type: Depth (in							Hydric Soli	Present? Yes NoX
Type: Depth (in							Hydric Soli	Present? Yes No
Type: Depth (in							Hydric Soli	Present? Yes No
Type: Depth (in							Hydric Soll	Present? Yes No
Type: Depth (in							Hydric Soll	Present? Yes No
Type: Depth (in							Hydric Soll	Present? Yes No
Type: Depth (in							Hydric Soll	Present? YesNoX
Type: Depth (in							Hydric Soll	Present? YesNoX
Type: Depth (in							Hydric Soll	Present? Yes No
Type: Depth (in							Hydric Soll	Present? YesNoX
Type: Depth (in							Hydric Soll	Present? YesNoX
Type: Depth (in							Hydric Soll	Present? YesNoX
Type: Depth (in							Hydric Soll	Present? YesNoX
Type: Depth (in							Hydric Soll	Present? Yes No
Type: Depth (in							Hydric Soll	Present? YesNoX
Type: Depth (in							Hydric Soll	Present? Yes No
Type: Depth (in							Hydric Soll	Present? Yes No
Type: Depth (in							Hydric Soll	Present? Yes No
Type: Depth (in							Hydric Soll	Present? Yes No
Type: Depth (in							Hydric Soll	Present? Yes No

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, to Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Yes	Sampling Date: 07-71-7 Sampling Date: 07-71-7 Sampling Point: 01-WAS-1 Signature: NAb23 NWI classification: AIA explain in Remarks.) emstances* present? Yes X No
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iton Deposits (B3) Algal Mat or Crust (B4) Iton Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Table Present? Water Table Qay Depth (inches): Describe Recorded Data (stream gauge, monitoring well, perial photos, previous inspections), if available: Wetland Hydrology within a Wetland? n any answers in Remarks.) transects, important features, etc.	
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Weter (A1) High Water Table (A2) Ment Deposits (B15) (LRR U) Seturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Water Present? Water Table Present? Yes No Depth (Inches): Water Table Present? Yes X No Depth (Inches): Wetland Hydrolic (Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, perial photos, previous inspections), if available:	Yes No
Primary Indicators (minimum of one is required: check all that apply) Surface Weter (A1) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Inon Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Sediment Deposits (B3) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Sediment Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Sediment Deposits (B15) Wetland Hydrolic (includes capillary fringe)	
Surface Weler (A1)	indary Indicators (minimum of two required)
Surface Weler (A1)	Surface Soil Cracks (B6)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (Inches): Sediment Odor (C1) Mydrogen Sulfide Odor (C1) No Presente of Reduced Iron (C4) Recent fron Reduction in Tilled Soils (C6) Sediment Deposits (B3) Recent fron Reduction in Tilled Soils (C6) Sediment Deposits (B5) Other (Explain in Remarks) Sediment Deposits (B5) Depth (Inches): Water Table Present? Yes No Depth (Inches): Wetland Hydrolic (Inches Capillary fringe) Describe Recorded Data (stream gauge, monitoring well, perial photos, previous inspections), if available:	Sparsely Vegetated Concave Surface (B8)
X Saturation (A3)	Drainage Patterns (B10)
Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) C Sediment Deposits (B2) Presence of Reduced Iron (C4) C Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) S Algal Mat or Crust (B4) Thin Muck Surface (C7) C Iron Deposits (B5) Other (Explain in Remarks) S Inundation Visible on Aerial Imagery (B7) S Water-Stained Leaves (B9) S Field Observations: Surface Water Present? Yes No Depth (Inches): Water Table Present? Yes No Depth (Inches): Water Table Present? Yes No Depth (Inches): Wetland Hydrolic (Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Moss Trim Lines (816)
Sediment Deposits (82)	Dry-Season Water Table (C2)
Algal Mat or Crust (B4) Thin Muck Surface (C7) Government of the following stream gauge, monitoring well, aerial photos, previous inspections), if available:	Crayfish Burrows (C8)
Iron Deposits (B5) Other (Explain in Remarks) S	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (87)	Geomorphic Position (D2)
Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes	Shallow Aquitard (D3)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): O Wetland Hydrolic (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:	FAC-Neutral Test (D5)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): OWetland Hydrolic (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, perial photos, previous inspections), if available:	Sphagnum moss (D8) (LRR T, U)
Water Table Present? Yes X No Depth (inches): Wetland Hydrolic (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Water Table Present? Yes X No Depth (inches): Wetland Hydrolic (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Saturation Present? Yes X No Depth (Inches): Wetland Hydrolic (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	.1
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	logy Present? Yes No
Remarks:	
Remarks:	

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1				Total Number of Dominant Species Across All Strata: (B)
4	=		=	Percent of Dominant Species 100 That Are OBL, FACW, or FAC: (A/B)
0	=	= Total Co	ver	Prevalence Index worksheet:
50% of total cover:				Total % Cover of Multiply by:
Carellina Charles a Classica 145				OBL species x 1 =
1. Francisco paratel duna	70		FACW	FACW species x 2 =
2				
3				FACU species x4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
6			-	Prevalence Index = B/A =
		= Total Co		Hydrophytic Vegetation Indicators:
50% of total cover: 10	20% of	total cover	<u> </u>	★ 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)	/			✓ 2 - Dominance Test is >50%
1/			_	3 - Prevalence Index is ≤3.0°
2	-			Problematic Hydrophytic Vegetation¹ (Explain)
3		-		
4				Indicators of hydric soil and wetland hydrology must
5		-		be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
50% of total cover.		= Total Cover total cover		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size:5)			irn.	(7.6 cm) or larger in diameter at breast height (DBH).
1. Androposon virginicus	20	7		Sapling - Woody plants, excluding woody vines,
2. Buhmung cylinding		*		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3. Lundwigh polastrus	40	_*_	<u>001</u>	
4 ,			_	Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6			$\overline{}$	Herb - All herbaceous (non-woody) plants, including
7		-		herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
9.				
10-				Woody vine – All woody vines, regardless of height.
11.				
	100	= Total Cov	er	
50% of total cover:	1 () 20% of	total cover	20	
Woody Vine Stratum (Plot size:)				
1				
2.				
3.				
4				
5				Ude-abide
		Total Cov	er	Hydrophytic Vegetation
50% of total cover:		total cover		Present? Yes No
Remarks: (If observed, list morphological adaptations bel-		.o.ui uotei		
riginariss. (ii doserved, list intripriological adaptations del	uwr).			

Depth	Matrix		Redo:	x Feature	5			
(inches)	Color (moist)	_%_	Color (moist)	- %	Type	Loc2	Texture	Remarks
0-18	10425/2	60	10/12 6/6	20	C	M	5, 4,	
	104R5/3	20						
		_						
	-							
T C-C	A A A A A A A A A A A A A A A A A A A	lates Date	Dodgeod Motrie MC	- Maskan	Cond Co		Zi angling: Ci	-Dare Lining Mahdakiy
	concentration, D=Dep Indicators: (Applic					BIF18.		.=Pore Lining, M=Metrix. r Problematic Hydric Soils ³ :
•		enie to aii i	Polyvalue Be			DOE T II		k (A9) (LRR O)
Histoso	pipedon (A2)		Thin Dark Su					k (A10) (LRR S)
_	listic (A3)		Loamy Mucky				_	Vertic (F18) (outside MLRA 150A.B
_	en Sulfide (A4)		Loamy Gleye	-		,	_	Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		X Depleted Mat	,	· -r			is Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P	T, U)	Redox Dark 8	Surface (F	6)		(MLRA	153B)
5 cm M	ucky Mineral (A7) (Li	R P, T, U)	Depleted Dar					nt Material (TF2)
_	resence (A6) (LRR U)	Redox Depre		8)			llow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Mari (F10) (L				Other (Ex	plain in Remarks)
	id Below Dark Surfac	8 (A11)	Depleted Oct				Th 3ladeasta	ers of hydrophytic vegetation and
_	ark Surface (A12) Yrairie Redox (A16) (M	ALDA 150A	Iron-Mangana) Umbric Surfa				,	d hydrology must be present,
	ratus ideans (vilo) (i		Delta Ochre			, 0,		disturbed or problematic.
Sandy I	Mucky Mineral (\$1) (I	RR O SI					01000	a.o.a. a.a. a. b. a.a.a.
	Mucky Mineral (S1) (I Gleved Matrix (S4)	.RR (0, 5)	_		-	OA. 150B)		
Sandy (Mucky Mineral (S1) (I Gleyed Matrix (S4) Redox (S5)	.RR (0, 5)	Reduced Ver	tic (F18) (MLRA 15		9A)	
Sandy (Gleyed Matrix (S4)	.RR (), (S)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	9A) A 149A, 153C, 15	53D)
Sandy (Sandy i	Gleyed Matrix (S4) Redox (S5)		Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14		53D)
Sandy (Sandy (Stripped Dark St	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14		53D)
Sandy (Sandy (Stripped Dark St	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P. S	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy (Stripped Oark Strictive	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14		V
Sandy (Sandy F Sandy F Stripped Dark Strictive Type:	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	V
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	V
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	V
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	V
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sendy F Stripped Oark St Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark St. Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark St. Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy i Stripped Oark St Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark St. Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. 8 Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark St. Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. S Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. S Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. S Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. S Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. S Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. S Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. S Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark Strictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. S Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy if Stripped Oark St. Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. S Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	
Sandy (Sandy i Stripped Oark St Restrictive Type: Depth (in	Gleyed Matrix (S4) Redox (S5) d Matrix (S5) urface (S7) (LRR P. S Layer (If observed):	o, T. U)	Reduced Ver	tic (F18) (odplain S	MLRA 15 oils (F 19)	(MLRA 14	A 149A, 153C, 15	

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Ballerel Applicant/Owner. Sampling Point: 01-6 Investigator(s): Section, Township, Range: _ h. Il stope Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): LRRP Subregion (LRR or MLRA). Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes ... (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X Are Vegetation ______, Soit _____, or Hydrology _____ neturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) __ Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Oxidized Rhizospheres along Living Roots (C3) Water Marks (61) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Вилоws (С8) Drift Deposits (B3) Recent Iron Reduction in Tilled Sails (C6) Saturation Visible on Aerial Imagery (C9). Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (O3) Inundation Visible on Aerial Imagery (B7) __ FAC-Neutral Test (D5). Water-Steined Leaves (89) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Death (inches): Saturation Present? X Depth (inches): Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

7. 1.		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size. 30 ++)		Species?		Number of Dominant Species
1 Frax has provide Vanca	15		FACIN	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strate: (B)
4				Percent of Dominant Species
5.				Percent of Dominant Species That Are OSL, FACW, or FAC: (A/B)
6				
	15	= Total Co	лег	Prevalence Index worksheet:
50% of total cover: 7 3	3 20% n	filatel cover	3	Total % Cover of: Multiply by:
University and the second seco		1000100761		OBL species x 1 =
Sapling Stratum (Plot size)				FACW species x 2 =
1	. —			FAC species x 3 =
2			_	FACU species x 4 =
3				
4-				UPL species x 5 =
5				Column Totals (A) (B)
6				Prevalence Index = 8/A =
		= Total Co	APT .	
50% of total cover:				Hydrophytic Vegetation Indicators:
	20% 0	total cover	_	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)				X 2 - Cominance Test is >50%
1				3 - Prevalence Index is ≤3.0°
2				Problematic Hydrophytic Vegetation' (Explain)
3				
4				Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
	_			Definitions of Five Vegetation Strate:
6	-			Definitions of the regelation strate.
		= Total Cov		Tree – Woody plants, excluding woody vines,
50% of total cover:	20% of	f fotal cover	·	approximately 20 ft (6 m) or more in height and 3 in
Herb Stratum (Plot size: 5+1)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Rubus arvensis	40	_х		Sapting - Woody plants, excluding woody vines.
2. Andropogen virginias	20	*	FAC	approximately 20 ft (6 m) or more in height and less
3.			1000	than 3 in (7.6 cm) DBH
4				Shrub - Woody plants, excluding woody vines,
	71.			approximately 3 to 20 ft (1 to 6 m) in height.
5		-		
6	.—		-	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody
7				plants, except woody vines, less than approximately
в				3 ft (1 m) in height.
9				
10.				Woody vine - All woody vines, regardless of height.
11.				
11 8	do	= Total Cov		1
7-				
50% of total cover: 30	20% of	flatel cover	17	
Woody Vine Stratum (Plot size:)				
1,				
2.				
3.				
		-		
	-			
5				Hydrophytic
		■ Total Cov	er	Vegetation
50% of total cover	20% of	total cover:		Present? YesNo
Remarks: (If observed, list morphological adaptations belo				
	,.			

Profile Description: (D Depth	Matrix		dox Features			-
(inches) Color (n 6-19 1648 1648	5/3 60	Color (maist)		vpe¹ Loc²	SK.	Remarks
Type: C=Concentration Hydric Soll Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A Stratified Layers (A5) Organic Bodies (A6) 5 cm Mucky Mineral Muck Presence (A8) 1 cm Muck (A9) (LR Depleted Below Dark Thick Dark Surface (Coast Prairie Redox Sandy Mucky Mineral Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S5) Dark Surface (S7) (L	(Applicable to) (A) (LRR P, T, U) (A7) (LRR P, T t) (LRR U) R P, T t (Surface (A11) (A12) (A16) (MLRA 1 at (S1) (LRR O, K (S4) RR P, S, T, U)	all LRRs, unless off Polyvalue I Thin Dark 3 Loamy Muc Loamy Gle Depleted N Redox Dar Depleted D Redox Dep Mari (F10) Depleted C Iron-Manga S0A) Delta Ochr Reduced V Piedmont F	erwise noted.) Below Surface (* Surface (\$9) (LF cky Minierat (F1) yed Matrix (F2) latrix (F3) k Surface (F6) ark Surface (F6) chric (F1) (ML phese Masses (f face (F13) (LRF ertic (F18) (MLF Toodplain Soils	S8) (LRR S, RR S, T, U) (LRR O) PA 151) F12) (LRR O (P, T, U) 151) RA 150A, 151 (F19) (MLRA	Indicators T, U) 1 cm N 2 cm N Reduce Piedme Anoma (MLF Red Pa Very Si Other (unic	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ¹ : fuck (A9) (LRR 0) fuck (A10) (LRR 5) ed Venic (F18) (outside MLRA 150A,E and Floodplain Soils (F19) (LRR P, S, T flous Bright Leamy Soils (F20) RA 153B) areni Material (TF2) hallow Dark Surface (TF12) Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present, ess disturbed or problematic.
Restrictive Layer (if obs	servea):	-				X
Depth (Inches): Remarks:					Hydric Soil	Present? Yes No

S. Carres 101	Crty/County:	Bolley	Sampling	Date: 2-27-2
0.0	City/County:	Et-te: K	Sampling	Point: Ol-WHS-
Applicant/Owner. () PARULAN		A III	Sampling	FUIII.
nvestigator(s):	Section, Townsh	hip, Range:	0	
	Local relief (con	cave, convex, none):_	Cancer of	_ Slope (%):
Subregion (LRR or MLRA):LRRP Lat: _	37.027027	Lang: <u>- 18 - 8</u>	91019	Datum. NADS
Soil Map Unit Name: 2 7			/I classification:	
are climetic / hydrologic conditions on the site typical for this tim	e of year? Yes 🗶	No (If no, ex	plain in Remarks.)	
Are Vegetation, Soil, or Hydrology signit		Are *Normal Circums	stances" present? Y	res No
Are Vegetation Soil or Hydrology natur		(if needed, explain a		
SUMMARY OF FINDINGS - Attach site map sho	wing sampling p	oint locations, tra	nsects, import	ant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No No Wetland Hydrology Present? Yes No No		ampled Area Wetland?	Yes X No_	
Remarks:				
wetland point for	- 0[-	- W-10 PF0)	
HYDROLOGY				
Wetland Hydrology Indicators:				num of two required)
Primary Indicators (minimum of one is required; check all that X Surface Water (A1) Aquatic Fau			rface Soil Crecks (B6 ersely Vegetated Co	
	its (B15) (LRR U)	-	ainage Patterns (B10	
	sulfide Odor (C1)	_	es Trim Lines (B16)	
Weter Marks (B1) Oxidized Rh	nizospheres along Livin	_	-Season Water Tab	
	Reduced from (C4)	• · · · —	syfish Burrows (C8)	
	Reduction in Tilled Soi		turetion Visible on A	erial Imagery (C9)
	Surface (C7)		omorphic Position (I	
	ain in Remarks)	Sh	allow Aquitard (D3)	
Inundation Visible on Aerial Imagery (87)	•	₹ FA	C-Neutral Test (D5)	
Water-Stained Leaves (99)		Sp	hagnum moss (D8) ((LRR T, U)
Field Observations:	- 4			
Surface Water Present? Yes X No Depth	(inches):	<u> </u>		
	(inches):			C.
	(inches):	Wetland Hydrolo	gy Present? Yes	X No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, asm	al photos, previous insp	sections), if available:		
Remarks:				

ree Stratum (Plot size: 30 ft)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Number of Dominant Species
Salix binya	60 × 0BL	That Are OBL, FACW, or FAC
Betwie Mirken	70 X FACU	.1 Total Number of Dominant 7
Cellis larvinget	(A) FACE	Total Number of Dominant Species Across All Strata: (8)
The state of the s		
		Percent of Dominant Species 100
4-		That Are OBL, FACW, or FAC:(A/
-		Prevalence Index worksheet:
	= Total Cover	Total % Cover of. Multiply by:
50% of total cover:	47 5 20% of total cover [4]	
apling Stratum (Plot size:)		OBL species x 1 =
		FACW species x 2 =
+		FAC species x 3 =
		FACU species x 4 =
		UPL species x 5 =
		Column Totals: (A) (B
		Prevalence Index = B/A =
	= Total Cover	
L		Hydrophytic Vegetation Indicators:
50% of total cover:	20% of total cover:	- 📉 1 - Rapid Test for Hydrophylic Vegetation
hrub Stratum (Plot size:)		✓ 2 - Dominance Test is >50%
		3 · Prevalence Index is \$3.0
		Problematic Hydrophytic Vegetation¹ (Explain)
		- Triblianiziic Hydrophytic Vegetalion (Cxpiani)
		 Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
		Definitions of Five Vegetation Strata:
	= Total Cover	Tree - Woody plants, excluding woody vines,
erb Stratum (Plot size:)	20% of total cover:	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBM.
		(nen 3 in. (7.6 cm) Dan.
		Shrub - Woody plants, excluding woody vines.
		approximately 3 to 20 ft (1 to 6 m) in height.
		" No. 1 All S. 1
		 Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody
		plants, except woody vines, less than approximately
		3 ft (1 m) In height.
1		Woody vine – All woody vines, regardless of height.
		-
		-
	= Total Cover	
50% of total cover.	20% of total cover:	
oody Vine Stratum (Plot size:)		
		# I
		-
		-
		4
		a budana buda
		- Hydrophytic
	T-1-1 D	Vocatation
	= Total Cover	Vegetation X Present? Yes No
	= Total Cover 20% of total cover:	Present? Yes No

Depth	cription: (Describe Matrix				x Feature	5				
(inches)	Color (moist)	%	Calar	(moisl)	_ %	Type ¹	Loc2	<u>Texture</u>	Remarks	_
0-7	104K 3/1	100						5.6.	Organi (
2-18	104K 5 12	85	754K	5/6	15			5.00		
- 10	10.5		3.4					-		
-	-								-	
										_
		-					-			
	- Department	THE PLANE	Dad and	Administra Ad	C=Maaka	Cond Cr	nine	71 postion	PL=Pore Lining, M=Matrix.	
Type: C=C	oncentration, D=Dep Indicators: (Applic	eble to all	I RRe un	loss othe	S-Wasker	ed \	allis.		for Problematic Hydric Soils3:	
-		.4010 (0 6)1					.RR S, T, U		Muck (A9) (LRR O)	
Histosol	pipedon (A2)		_	•	urface (S9			. —	Muck (A10) (LRR S)	
	istic (A3)				ky Mineral				ced Vertic (F18) (outside MLRA 15	OA,B
	en Sulfide (A4)				ed Malrix		•		iont Floodplain Soils (F19) (LRR P.	
	d Layers (A5)			pleted Ma		-		Anom	alous Bright Loamy Soils (F20)	
_	Bodies (A6) (LRR F	r, T, U)	Re	edox Dark	Surface (F6)			RA 1539)	
	ucky Mineral (A7) (L				irk Surfact			_	Parent Material (TF2)	
	resence (A8) (LRR (1)	_		essions (F	8)			Shallow Dark Surface (TF12)	
_	uck (A9) (LRR P, T)			ari (F10) (I		(m) B4 4	F43	Other	(Explain in Remarks)	
	d Below Dark Surfac	æ (A11)		•	thric (F11)	-	31) LRR 0, P,	T) Planti	cators of hydrophytic vegetation an	d
_	ark Surface (A12) Irairie Redox (A16) (UI DA 150			ace (F13)			' '	fland hydrology must be present,	-
_	Mucky Mineral (S1) ((F17) (MI		. ~,		less disturbed or problematic.	
	Gleyed Matrix (S4)	,					OA, 150B)			
	Redox (\$5)		-				(MLRA 14			
	Matrix (S6)							RA 149A, 1530	C, 153D)	
		6 T (B								
Dark Su	irface (S7) (LRR P, :	a, I, U)								
	irface (S7) (LRR P, : Layer (if observed)									
									V	
Restrictive	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)		=					Hydric Soi	Present? Yes X No_	_
Restrictive Type: Depth (in	Layer (if observed)		=					Hydric Soi	Present? Yes X No_	
Restrictive Type:	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)		=					Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No _	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No _	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No _	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No _	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No _	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No _	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No _	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No_	
Restrictive Type: Depth (in	Layer (if observed)							Hydric Soi	Present? Yes X No_	

Applicant/Owner. Investigator(s): Section, Township, Rangs: APPLICATION (hillslope, terrace, etc.). Section, Township, Rangs: APPLICATION (hillslope, terrace, etc.). APPLICATION (hillslope, terrace, etc.). APPLICATION (hillslope, terrace, etc.). Soil Map Unit Name: LRR P Lat: 37 077 00 Long: NWI classification:	Project/Site: Song Sparrow Solar City	#County: Bullard Sampling Date: 01-27-73
Investigator(s): Section, Township, Range: Milling (Stope (%)): Landform (hillslope, terrace, etc.). httpsp. Lat: 37 077 0000 Long: 28 84 000 Datum; Moss Subregion (LRR or MLRA): LRR P Lat: 37 077 0000 Long: 28 84 000 Datum; Moss Subregion (LRR or MLRA): LRR P Lat: 37 077 0000 Long: 28 84 000 Datum; Moss Subregion (LRR or MLRA): Long: 28 4 000 Datum; Moss Subregion (LRR or MLRA):	Applicant/Owner	State Sampling Point: 01-W-70
Landform (hillslope, terrace, etc.).		
Subtregion (LRR or MLRA): LRR P Lat: 37 077067 Long: 98 89 000 Datum; MDS2 Soil Map Unit Name; LoC2 New Committee I hydrologic conditions on the site lypical for this time of year? Yes No (ffroe, explain in Remarks) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (ffroe explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Welland Hydrology Present? Yes No Welland Hydrology Present? Yes No Welland Hydrology Present? Yes No Welland Hydrology Indicators: Welland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aqualic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A2) Meri Deposits (B10) Well Myster Table (A2) Hydrogen Sulface Odor (C1) Well Myster Table (A2) Present for Reduced Iron (C4) Sediment Deposits (B2) Present for Reduced Iron (C4) Drift Deposits (B3) Recent from Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Water Stained Leaves (B9) Water Stained Leaves (B9) Well Myster Present? Yes No Depth (inches): Water Table (Present?	Landform (hillslope, terrace, etc.), h 1/5 opt.	Checkle
Soil Map Unit Name:		0.010 (10)1
Are dimatic / hydrologic conditions on the site typical for this time of year? Yes No (thou, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are 'Normal Circumstances' present? Yes No (thou, explain in Remarks.) Are Vegetation Soil or Hydrology naturally problematic? (threeded, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Yes	1 20	
Are Vegetation Soil or Hydrology significantly disturbed? Are Normal Circumstances' present? Yes No Normal Circumstances in a decided to present? Yes No Normal Circumstances in a decided present? Yes No Normal Circumstances in a decided present? Yes No Normal Circumstances in a decided present? Yes No Normal Circumstances in a decided present? Yes No Normal Circumstances in a decided present? Yes No Normal Circumstances in a decided present? Yes No Normal Circumstances in a decided p		1
Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc Hydrophytic Vegetation Present? Yes No Welfand Hydrology Present? Yes No Welfand Hydrology Present? Yes No Welfand Hydrology Present? Yes No Welfand Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (86) Surface Water (A1) Aquatic Fauna (813) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Meri Deposits (815) (LRR U) Drainage Pathens (810) Saturation (A3) Hydrology Sulfide Odor (C1) Most frim Lines (816) Sediment Deposits (82) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (83) Repent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) In Deposits (63) Remail Imagery (87) Hydrology Indicators (Inches): Water Ablance (B9) Sparsely Vegetated Concave Surface (B9) Sparsely Vegetated Concave Surface (B9) FAC-Neutral Test (D5) Spangum moss (D8) (LRR T, U) Welland Hydrology Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Welland Hydrology Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):		
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Yes No Within a Worland? Yes No Within a Worland? Yes No Within a Worland? Yes No Yes		1
Summary OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Hydro Soil Present? Weltand Hydrology Present? Weltand Hydrology Present? Weltand Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Man Deposits (B15) Welter Marks (B1) Solitore Water Marks (B1) Solitore Water Marks (B1) Solitore Water Marks (B1) Solitore Water (A1) Solitore Water (A1) Solitore Water (A2) Water Marks (B1) Solitore Water (A3) Solitore Water (A3) Solitore Water (A3) Solitore Water (A3) Solitore Water (A4) Water Marks (B1) Solitore Deposits (B2) Presence of Raduced Iron (C4) Solitore Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Water Steined Leaves (B6) Field Observation: Vater Marks (B3) Vater Steined Leaves (B6) Field Observation? Vater Table (Present? Vas. No. Depth (Inches): Solitore Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:	Are Vegetation, Soit, or Hydrology naturally problem	matic? (If needed, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: ### Wetland Hydrology Present?	SUMMARY OF FINDINGS - Attach site map showing sa	impling point locations, transects, important features, etc.
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Indicators: ### Company		
Wetland Hydrology Present? Yes No Within a Wetland? Yes No Depth (inches): Wetland Hydrology Indicators: Differ Observed Present? Yes No Depth (inches): Wetland Hydrology Indicators: Differ Observed Present? Yes No Depth (inches): Wetland Hydrology Indicators: Differ Observed Present? Yes No Depth (inches): Wetland Hydrology Indicators: Differ Observed Present? Yes No Depth (inches): Wetland Hydrology Indicators: Differ Observed Present? Yes No Depth (inches): Wetland Hydrology Indicators: Differ Observed Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Man Deposits (Previous Inspections), if available: Wetland Hydrology Present? Yes No Man Deposits (Previous Inspections), if available:		
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Valer (A1) High Water Table (A2) Saturation (A3) Weter Marks (B1) Sediment Deposits (B1) Augulic Fauna (B13) Saturation (A3) Weter Marks (B1) Drainage Patterns (B10) Moss Trim Lines (B16) Sediment Deposits (B2) Presence of Reducted Iron (C4) Drit Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) John Deposits (B3) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table (A2) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availabifs:	7	within a Wetland? Yes No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Drift Deposits (B3) Agal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availabife:		
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Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (86) Surface Water (A1) Aquatic Fauna (813) Sparsely Vegetated Concave Surface (88) High Water Table (A2) Mari Deposits (815) (LRR U) Drainage Patterns (810) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (816) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (82) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (63) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (84) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquiterd (D3) Inundation Visible on Aerial Imagery (B7) Shallow Aquiterd (D3) Water-Stained Leaves (89) Sphagnum moss (D8) (LRR T, U) Field Observations: Ves No Depth (inches): Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	Oblance Dalin	01-0013-10
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Surface Water (A1)	The state of the s	
High Water Table (A2)		
Saturation (A3)		
Water Marks (B1)	The Carlo	
Sediment Deposits (82)		
Drift Deposits (83) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquiterd (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Water Table Stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquiterd (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Sphagnum moss (D8) (LRR T, U) Water Table Present? Yes No Depth (inches): No Water Table Present? Yes No No No No No		,
Iron Deposits (B5)		
Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (89) Sphagnum moss (D8) (LRR T, U) Sphagnum moss (D8) (LRR T, U)		
Water-Stained Leaves (89) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
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Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Sphagnum moss (D8) (LRR T, U)
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches)		
Saturation Present? Yes No Depth (inches). Wetland Hydrology Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Wetland Hydrology Present? Yes No X
		evigus inspections), if available:
Remarks:	Remarks:	
		10
		4 1
		, 1 I

% Cover 70 70 10	4	Status FACU FACU TAC	That Are OBL, FACW, or FAC: (A Total Number of Dominant Species Across All Strata* (B Percent of Dominant Species
70 70	4	FACU FACU	That Are OBL, FACW, or FAC: (A Total Number of Dominant Species Across All Strata* (B Percent of Dominant Species
76	<u></u>	TACK	Total Number of Dominant Species Across All Strata* Percent of Dominant Species 2 %
10		TAC	Species Across All Strata (B
			Species Across All Strata (B
			Percent of Dominant Species 2.7
			Percent of Dominant Species 2 %
1: 1:			Percent of Commani Species 7.7
1: 1:			The A COLUMN TARKS YY
F2(1			That Are OBL, FACW, or FAC: (A
F7(1			
	= Total Cov	VP F	Prevalence Index worksheet:
			Total % Cover of. Multiply by:
20% of	tofal cover		OBL spaces x 1 =
			OBL species x 1 =
			FACW species x 2 =
			FAC species x 3 =
			FACU species x 4 =
			UPL species x 5 =
			Column Totals: (A) (
			Prevalence Index = B/A =
	= Total Cos	ver	
			Hydrophytic Vegetation Indicators:
20% of	total cover	:	1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0°
			Problematic Hydrophytic Vegetation ¹ (Explain)
			r reolematic rigarophytic vegetation (Explain)
-			
			Indicators of hydric soll and welland hydrology mus
			be present, unless disturbed or problematic.
			Definitions of Five Vegetation Strata:
	= Total Co.	ver	
			Tree – Woody plants, excluding woody vines,
20% of	total cover		approximately 20 ft (6 m) or more in height and 3 in.
			(7.6 cm) or larger in diameter at breast height (DBH)
20	.,	FACIL	
		THU	Sapling – Woody plants, excluding woody wnes,
20	X	FA(W	approximately 20 ft (6 m) or more in height and less
5		FACIL	than 3 in. (7.6 cm) DBH.
	-1	-	L
20	У,	MPL	Shrub - Woody plants, excluding woody vines,
			approximately 3 to 20 ft (1 to 6 m) in height.
			Herb – All herbaceous (non-woody) plants, including
			herbaceous vines, regardless of size, and woody
			plants, except woody vines, less than approximately
			3 ft (1 m) in height
		$\overline{}$	Woody vine - All woody vines, regardless of height
11			
_			
5 20% of	total cover	13	
		-	1
-			1
			1
			I .
		_	Hydrophytic
	= Total Cov	mer .	Hydrophytic Vegetation
	= Total Cov		Vacatation
	20% of 20% of 20 20 5 70 5 70	= Total Cover = Total Cover	= Total Cover 20% of total cover = Total Cover 20% of total cover 20

Depth (inches)	Matrix		Red	ox Feature:	5		n the absence of	
	Color (moist)	%	Color (moist)	%	Type	Loc	Texture	Remarks
0-2	1048 3/3		OU-OF THISIDAY		. 155		51	***
		100				-	21	
7-16	104R54	100					20	
						_		
		-						
					_	-		
Type: C=Cc	ncentration, D=Dep	letion, RM=R	educed Matrix, N	A\$=Masked	Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to all LF	RRs, unless oth	erwise not	ed.)		Indicators fo	r Problematic Hydric Solis*:
Histosol	(A4)		Polyvalue B	selow Suda	ce (S8) (I	RR S. T.	U) 1 cm Mus	ck (A9) (LRR O)
_	• '		Thin Dark S					tk (A10) (LRR S)
_	ipedon (A2)		_					Vertic (F18) (outside MLRA 150A,B
Black His			Loamy Muc	-		(0)		
	n Sulfide (A4)		Loamy Gle		(F2)			t Floodplein Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)		Depleted M	latrix (F3)				us Bright Loamy Soils (F20)
Organiç	Bodies (A6) (LRR P	, T, U)	Redox Dari	s Surface (F	-6)		(MLRA	
5 cm Mu	cky Mineral (A7) (LI	RR P, T, U)	Depleted D	ark Surface	(F7)		Red Pare	ent Material (TF2)
_	sence (A8) (LRR U		Redox Dep	ressions (F	8)			llow Dark Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10)	(LRR U)			Other (Ex	plain in Remarks)
_	Below Dark Surfac	w (A11)	Depleted C		MLSA 1	51)		·
	rk Surface (A12)	~ (****)	iron-Manga				. T) ³ Indicati	ors of hydrophytic vegetation and
	eirie Redox (A15) (I	MI DA 460A)				-		d hydrology must be present,
_					-			disturbed or problematic.
	ucky Mineral (S1) (LRR 0, 5)	Delta Ochri					s disturbed of problematic.
Sandy G	leyed Matrix (S4)		Reduced V					
Sandy R	edox (S5)		Piedmont F	-		-		
Stripped	Matrix (S6)		Ariomalous	Bright Loai	my Soils	F20) (MLI	RA 149A, 153C, 1	53D)
Dark Sur	face (57) (LRR P, !	S, T, U)						
Restrictive I	ayer (if observed)	:					1	
		1						
Type:		/						resent? Yes No
Death (inc	hes):/		_				Hydric Soil Pi	resent? Yes No
Pari Jun								
Remarks:								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Sony Sparra Solar Chycounty: Buttard 1 Sampling Point: DI-WAS? Applicant/Owner: Section, Township, Range: ____ KIPA Investigator(\$): Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): forcave Subregion (LRR or MLRA):_____ Lat: LpD3 Solt Map Unit Name: ... NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes 🔀 _ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ srgn/ficantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation ______, Soil ______, or Hydrology ______ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes Remarks: wetter & point for HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) X Sparsely Vegetated Concave Surface (B8) Y Surface Water (A1) Aquatic Fauna (813) X Drainage Patterns (B10) High Water Table (A2) Mari Deposits (B15) (LRR U) X Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (816) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) ___ Ory-Season Water Table (C2) Sediment Deposits (62) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (83)
Algal Mat or Crust (84) Recent fron Reduction in Titled Soils (C6) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) X Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3). Inundation Visible on Aerial Imagery (B7) 💃 FAC-Neutral Test (D5) Water-Stained Leaves (69) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Depth (inches): Welland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available. Remarks:

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

Sampling Point: 01-WAS-71

Tree Stratum (Plot size:)			nt Indicator s? Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4		_		Percent of Dominant Species
		_		That Are OBL, FACW, or FAC;(A/B)
6				Prevalence Index worksheet:
50% of total cover:	2084 -			Total % Cover of:Multiply by:
Sapling Stratum (Plot size:)	20% D	r total cov	er:	OBL species x 1 =
1				FACW species x 2 =
2				FAC species x 3 =
3		-		FACU species x 4 =
4				UPL species x 5 =
5				Column Totals:(A)(B)
6.				Prevalence Index = B/A =
		= Total C	over	Hydrophytic Vegetation Indicators:
50% of total cover:		totel cov	ег:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)				2 - Dominance Test is >50%
1,			. —	3 - Prevalence Index is \$3.0"
2		-		Problematic Hydrophytic Vegetation¹ (Explain)
3		_		1
4		_		¹ Indicators of hydric soil and welland hydrology must
5		-		be present, unless disturbed or problematic.
6		_		Definitions of Five Vegetation Strate:
				Tree - Woody plants, excluding woody vines,
50% of total cover:	20% of	lotal cov	er:	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size 5 ft) 1. PSEVOVO SIA BELLO	2.0		DEL	
1. Psekova glabella 2. Ahdrongan Virginicas		—×	FAC	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
3 Persialia Supolita			OSC	than 3 in. (7.6 cm) OBH.
4. Ocentra cythology	11)		FACU	Shrub - Woody plants, excluding woody vines,
5. Arthruxon hispidas	10		FAL	approximately 3 to 20 ft (1 to 6 m) in height.
6.			- +1112	Herb - All herbaceous (non-woody) plants, including
7.				herbaceous vines, regardless of size, and woody
В				plants, except woody vines, less than approximately 3 ft (1 m) in height.
9.				
10				Woody vine - All woody vines, regardless of height
11,				
	65	= Total C	over	
50% of total cover: <u>37</u>	7 5 20% of	total covi	er: <u>13 </u>	
Woody Vine Stratum (Plot size:)				
1		_		
2		-		
3				
5		-		Hydrophytic
×	_	= Total C		Present? Yes No
50% of total cover:		Iotal cove	ar:	
Remarks: (If observed, list morphological adaptations be	elow).			

Depth Matr			x Feature:	8			
inches} Color (moist		Color (moist)	- 4	Type	Loc	Texture	Remarks
2544)	2 90	542314	10		W	<u>SC.</u>	
			-	-	-	-	***
				-			
			-	-			-
Type: C=Concentration, D=	Depletion, RM=	Reduced Matrix, Mi	S=Masked	Sand G	ains.	² Location;	PL=Pore Lining, M=Matrix.
ydric Soil Indicators: (Ap	ρlicable to all l						for Problematic Hydric Soils ¹ :
Histosol (A1) Histle Epipadon (A2)		Polyvalue Be Thin Dark St					Muck (A9) (LRR O) Muck (A10) (LRR S)
Black Histic (A3)		Loamy Muck					ed Vertic (F18) (outside MLRA 150A,I
Hydrogen Sulfide (A4)		Loamy Gleye					ont Floodplain Soils (F19) (LRR P, S, T
_ Stratified Layers (A5)		No Depleted Ma					llous Bright Loamy Soils (F20)
Organic Bodies (A6) (LR		Redox Dark	•	•			RA 1539) arent Material (TF2)
 5 cm Mucky Mineral (A7) Muck Presence (A8) (LR 		Depleted Da Redox Depre				_	hallow Dark Surface (TF12)
_ 1 cm Muck (A9) (LRR P.	-	Mad (F10) (L	-	-,			(Explain in Remarks)
Depleted Below Dark Su	rface (A11)	Depleted Oc	bric (F11)	(MLRA 1	51)		
_ Thick Dark Surface (A12	•	fron-Mangan					ators of hydrophytic vegetation and
_ Coast Prairie Redox (A1)) Umbric Surfa Delta Ochric		-	,υ)		land hydrology must be present, ess disturbed or problematic.
Sandy Mucky Mineral /S		_					eas distorbed of problemant.
 Sandy Mucky Mineral (S Sandy Gleved Matrix (S4 	3	Keduceo Vei	rtic (F18) (MLCA I	MW. 1500.		
_ Sandy Mucky Mineral (S _ Sandy Gleyed Matrix (S4 _ Sandy Redox (S5))	Reduced Ver Piedmont Fit					
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6)	•	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1		, 153D)
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A)	, 153D)
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A)	, 153D)
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR strictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type: Depth (inches):	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A)	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR strictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type: Depth (inches):	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type: Depth (inches):	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type: Depth (inches):	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type: Depth (inches):	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type: Depth (inches):	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type: Depth (inches):	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19) my Soils ((MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19)	(MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19) my Soils ((MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19) my Soils ((MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19) my Soils ((MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19) my Soils ((MLRA 1	49A) &A 149A, 153C,	J
Sandy Gleyed Matrix (\$4 Sandy Redox (\$5) Stripped Matrix (\$6) Dark Surface (\$7) (LRR estrictive Layer (if observ Type:	P, S, T, U)	Piedmont Ftd	odplain S	olls (F19) my Soils ((MLRA 1	49A) &A 149A, 153C,	J

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Bellevel ony Sparran Solar Sampling Date: Z-72-23 City/County: Sampling Point: 01-W-77 Applicant/Owner: CK Investigator(s): Section, Township, Range: h:1131-40 Concurs Local relief (concave, convex, none): Landform (hillslope, terrace, etc.): ___ 37.023575 Subregion (LRR or MLRA): LRRP 892921 Soil Map Unit Name: LpD3 NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) ____, Soil ______, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) __ Aquatic Fauna (B13) Surface Water (A1) ___ Marl Deposits (B15) (LRR U) Drainage Patterns (B10) High Water Table (A2) __ Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Saturation (A3) __ Dry-Season Water Table (C2) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) __ Crayfish Burrows (C8) Presence of Reduced Iron (C4) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) Thin Muck Surface (C7) Geomorphic Position (D2) Algal Mat or Crust (B4) Shallow Aquitard (D3) Other (Explain in Remarks) Iron Deposits (B5) __ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): Surface Water Present? Depth (inches): Water Table Present? Wetland Hydrology Present? Yes ___ Y Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

20% of total cover:

Remarks: (If observed, list morphological adaptations below).

Sampling Point: 01-WA5-21

nches)	dption: (Describe t			x Feature		-		
N	Color (moist)	_%	Color (moist)	_%_	Type	Loc'	Texture	Remarks
2-	7.5 48 3/2	100	DOLLARS DE				5.0	
-18	1042612	10	54R 5/8	b	C	M	_C	
				_	_			
				C-14	Seed Co		2 ocetion: PL	=Pore Lining, M≃Matrbs.
	ncentration, D=Deple ndicators: (Applica					arris.		Problematic Hydric Soils ³ :
Black His Hydrogen Strattfied Organic E 5 cm Muc Muck Pre 1 cm Muc Depleted Thick Dar Coast Pra Sandy Mt Sandy Gi Sandy Re	pedon (A2)	(A11) (A12) (A13)	Polyvalue Be Thin Dark So Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre Marl (F10) (L Depleted Oc Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Fic Anomalous B	orface (S9 by Mineral ed Matrix (F3) Surface (F rk Surface essions (F LRR U) thric (F11) ese Mass ace (F13) ((F17) (Mineral (F18) (podplain S	(KRR S, (F1) (LRR (F1) (LRR (F2) (6) (F7) (MLRA 15 es (F12) (I (LRR P, T, (RA 151) (MLRA 15 oils (F19)	T, U) O) ERR O, P, 1 U) DA, 150B) (MLRA 148	2 cm Muck Reduced V Piedmont if Anomalous	t Material (TF2) by Dark Surface (TF12) lain in Remarks) s of hydrophytic vegetation and hydrology must be present, disturbed or problematic.
	face (S7) (LRR P, S, ayer (if observed): hes):						Hydric Soil Pres	sent? Yes X No
emarks:	100/						- Ampaca y	

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Ballard Project/Site Applicant/Owne Section, Township, Range: Investigator(s) Local relief (concave, convex, none): Landform (hillslope, terrace, etc.): 76 -IRRP Subregion (LRR or MLRA): NWI classification: Soil Map Unit Name: (If no. explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are "Normal Circumstances" present? Yes significantly disturbed? Soll , or Hydrology (If needed, explain any answers in Remarks.) naturally problematic? Are Vegetation Soil or Hydrology SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (86) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Aquatic Fauna (B13) X Drainago Patterns (U10) Marl Deposits (B15) (LRR U) High Water Table (A2) Moss Trim Lines (B16) Hydrogen Sulfide Odor (C1) X Saturation (A3) Dry-Susson Water Table (C2) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Cravfish Burrows (C8) Presence of Reduced Iron (C4) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) X Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mat or Crust (B4) Shallow Aquitard (D3) Other (Explain In Remarks) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) X Water-Stained Leaves (B9) Field Observations: Depth (inches): Surface Water Present? Depth (inches): Water Table Present? Wetland Hydrology Present? Y Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Tree Stratum (Plot size 30 F+)	% Cover	Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species 3
1. Plante occidentalis	56		FACW	That Are OBL, FACW, or FAC:(A)
2. Acer Fubrum	45		FAC	Total Number of Dominant
3. Celtis laculyta	5		FACW	Species Across All Strata: (B)
4				3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
5,				Percent of Dominant Species That Are OBL, FACW, or FAC (A/B)
6				That Are OBL, FACTY, DI FAC
<u> </u>	100		Day.	Prevalence Index worksheet:
	_	= Total Co		Total % Cover of: Multiply by:
50% of total cover: 50	20% of	total cover	: 20	OBL species x 1 =
Sapling Stratum (Plot size:)				
1				FACW species x 2 =
2				FAC species x 3 =
				FACU species x 4 =
	_			UPL species x 5 =
				Column Totals: (A) (B)
5	_		-	
6,	_	-		Prevalence Index = B/A =
4		= Total Cov	ver	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of	total cover		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)		20121		★2 - Dominance Test is >50%
1/			_	3 - Prevalence Index is ≤3.0'
2	_		_	Problematic Hydrophytic Vegetation* (Explain)
3				
4				Indicators of hydric soil and wetland hydrology must
5.				be present, unless disturbed or problematic.
				Definitions of Five Vegetation Strata:
6		Total Car		
				Tree - Woody plants, excluding woody vines,
50% of total cover:	20% of	total cover:		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 P4)	400	76211	rn	(7.6 Cit) of larger in Chameter at Dreast height (City)
1. Elymins Viderius	5		FACW	Sapling - Woody plants, excluding woody vines,
2 Allium vineale	5	_X	TACU	approximately 20 ft (6 m) or more in height and less
3				than 3 in. (7.6 cm) DBH.
				Shrub - Woody plants, excluding woody vines,
4				approximately 3 to 20 ft (1 to 6 m) in height.
5			_	
6				Herb - All herbaceous (non-woody) plants, including
7.				herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
				3 ft (1 m) in height.
-				
				Woody vine - All woody vines, regardless of height.
				the first and the second secon
10				
11		Total Cov		
11				
50% of total cover: 12.5				
50% of total cover: 12.5				
50% of total cover: 12 5 Noody Vine Stratum (Plot size:)				
50% of total cover: 12 5 Woody Vine Stratum (Plot size:)				
50% of total cover: 12.5 Noody Vine Stretum (Plot size:)				
50% of total cover: 12.5 Noody Vine Stretum (Plot size:)				
50% of total cover: 12.5 Noody Vine Stretum (Plot size:)				thuding built
50% of total cover: 12.5 Moody Vine Stratum (Plot size:) 3	20% of I	lotal cover:	<u>5</u>	Hydrophytic Vegetation
50% of total cover: 12.5 Moody Vine Stratum (Plot size:)	_ 20% of I		_5	Hydrophytic Vegetation Present? Yes No
50% of total cover: 12.5 Moody Vine Stratum (Plot size:)				

ampling Point 01-W45-23

	% Color (moist)	TOTAL CO.	
101	OD.	% Type Loc Textu	
2-12 10412 5/2			Diguni
	10 7.5 46	0 C M	
Type: C=Concentration, D=Depletic ydric Soil Indicators: (Applicable Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, 5 cm Mucky Mineral (A7) (LRR II) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLR Sandy Mucky Mineral (S1) (LRR Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	on, RM=Reduced Matrix, MS=Me to all LRRs, unless otherwis Polyvalue Below Thin Dark Surfac Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Redox Dark Surfac Redox Depressio Marl (F10) (LRR Inon-Manganese LOA 150A) Umbric Surface (Reduced Vertic (Piedmont Floodpi Anomalous Bright	Surface (S8) (LRR S, T, U)	ation: PL=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ : cm Muck (A9) (LRR O) cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B
Depleted Below Dark Surface (A Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLR Sandy Mucky Mineral (S1) (LRR Sandy Gleyed Matrix (S4) Sandy Redox (S5)	Depleted Ochric Iron-Manganese RA 150A) Umbric Surface (ICO, S) Delta Ochric (F17 Reduced Vertic (ICO) Anomalous Brigh U)	(F11) (MLRA 151) Masses (F12) (LRR O, P, T) F13) (LRR P, T, U) 7) (MLRA 151) F18) (MLRA 150A, 150B) Iain Soils (F19) (MLRA 149A) I Loarny Soils (F20) (MLRA 149A,	wetland hydrology must be present, unless disturbed or problematic.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Relland Project/Site Sampling Date: OZ-22-23 Applicant/Owner. Sampling Point: 01-WhS-24 Investigator(s): Section, Township, Range: Landform (hillstope, terrace, etc.): Local relief (concave, convex, none): Subregion (LRR or MLRA): 021505 Datum: AIAD 83 Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes __. Soil _____, or Hydrology _____ significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes is the Sampled Area Hydric Soil Present? Yes No within a Wetland? Wetland Hydrology Present? Yes No Remarks: uplanlporas for 01-W-12 HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Aquatic Fauna (B13) Drainage Patterns (B10) High Water Table (A2) Mart Deposits (B15) (LRR U) Moss Trim Lines (816) Hydrogen Sulfide Odor (C1) Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (H1) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) Geomorphic Position (D2) Thin Muck Surface (C7) __ Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (87) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): Surface Water Present? Depth (inches): Water Table Present? Wetland Hydrology Present? Yes Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Tree Stratum (Plot size: 30 fr) 1. Prinches Seroting 2. Easies granding	_20		Status FACU FACU	That Are OBL, FACW, or FAC: (A)
3. Acer Mabrum	10		-	Total Number of Dominant Species Across All Streta: Percent of Dominant Species That Am Old SACW of SAC
5 6	35			Prevalence Index worksheet:
Sapling Stratum (Plot size:)				
		_		FAC species x 3 = FACU species x 4 = UPL species x 5 =
				Column Totals: (A) (E
C-		= Total Co		Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
50% of total cover:)				1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)
			=	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Five Vegetation Strata:
50% of total cover	20% of			Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Skilleria medis	40	<u>×</u>	FACU.	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Alluib vinenta	15	*	PACH	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
2-1110-42-		_		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
	=	_		Woody vine - All woody vines, regardless of height.
27		Total Cov		
50% of total cover: 37	.5 20% of t	otal cover:	12_	
	_	_		
				Hudenhatic
		Total Cov	er	Hydrophytic Vegetation
50% of total cover:	20% 011	otal cover:		Present? Yes No 1

D-18	Matrix			Features		-			- T- T-		
	Color (moist)	-%	Color (moist)	_%_	Type		Texture		Remark	5	_
1 18	10 YR 514	156				5	S.C.				
	101-21	10			$\overline{}$	100	-0.00				
				_	_	_					_
											_
					_						
				_	_	_				_	
					_						
3.5											_
Type: C=Cape	entration, D=Depl	ofice DM-De	duced Matrix MS	=Macked	Sand Gr	ains	Location: F	L=Pore L	ining, M=Ma	atrix.	
type. C-Conce	cators: (Applica	euon, rim-ne	De unione other	wies note	AI.	Dirio.	Indicators f	or Proble	matic Hydr	ic Soils':	
	The second of the second of	Tole to all Like						ick (A9) (I			
Histosol (A1)	4 2 9 79.		_ Polyvalue Be								
Histic Epiped			_ Thin Dark Su		the second second		2 cm ML	ck (A10)	(LINE O)	- 41 04	SOA B
Black Histic	(A3)	1.2	Loamy Mucky	Mineral ((F1) (LRF	0)	Reduce	Vertic (F	18) (outsid	B MLRA	D C T
Hydrogen St	ulfide (A4)		Loamy Gleye	d Matrix (F2)				ain Solls (F1		, 5, 1)
Stratified Lay	yers (A5)		_ Depleted Mai	rix (F3)					Loamy Soil	s (F20)	
Organic Bod	lies (A6) (LRR P.	T, U)	Redox Dark	Surface (F	6)			A 153B)	Acres A		
	Mineral (A7) (LR	the state of the s	Depleted Dar	k Surface	(F7)			ent Mater			
	nce (A8) (LRR U)	The second secon	Redox Depre		200				Surface (T	F12)	
the state of the s	(A9) (LRR P, T)		Mart (F10) (L		**		Other (E	xplain in l	Remarks)		
	low Dark Surface	e (A11)	Depleted Oct		(MLRA 1	51)					
	Surface (A12)		Iron-Mangane				n ³ Indica	tors of hyd	trophytic ve	getation a	ind
	e Redox (A16) (M	H PA 150A)	Umbric Surfa		The second second				ogy must be		
	Control of the second second second		Delta Ochric	10000					d or probler		
The second of the second of the second	ry Mineral (S1) (L	.RR 0, 5)	Reduced Ver	1		0A 150R)					
	ed Matrix (S4)	~	Pledmont Flo				AL				
Sandy Redo	4 A T Chr and	m =	_ Pleamont Flo	oopiam S	ons (Fia)	COUNTY IN	140A 153C	15301			
Stripped Ma			Anomalous B	ngnt Loan	ny Sous (rzu) (MLN	149A, 153C,	1330)			
Dark Surface	e (S7) (LRR F, S	, T, U)						_	_		_
Restrictive Laye	er (if observed):										
Type:		/	-								V
The second second	4.						Hydric Soil P	resent?	Yes	_ No	
	-/-									_	
Depth (inches Remarks:):						Hydric Soil F	resent?	Yes	No_	

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region B-llurd Project/Site: City/County: Sampling Point: 01-WAS-25 Applicant/Owner: Investigator(s): Section, Township, Range: Local relief (concave, convex, none): CONCOVE toeSlope Landform (hillslope, terrace, etc.): Datum: NAD83 Ky SUF 37.021870 Subregion (LRR or MLRA): IRRP NWI classification: Soil Map Unit Name: (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are "Normal Circumstances" present? Yes X No_ Are Vegetation Soil or Hydrology significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Wetlandpoint HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Aquatic Fauna (B13) Surface Water (A1) X Drainage Patterns (B10) Marl Deposits (B15) (LRR U) High Water Table (A2) Moss Trim Lines (B16) Hydrogen Sulfide Odor (C1) Saturation (A3) Dry-Season Water Table (C2) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Crayfish Burrows (C8) Presence of Reduced Iron (C4) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mat or Crust (B4) Shallow Aquitard (D3) Other (Explain in Remarks) Iron Deposits (B5) K FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): Surface Water Present? Water Table Present? Wetland Hydrology Present? Yes Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Tree Stratum (Plot size: 30 At)	% Cover	Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC (A)
3				Total Number of Dominant Species Across All Strata:
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC:
6		= Total Co		Prevalence Index worksheet: Total % Cover of: Multiply by:
Saplino Stratum (Plot size: 15 ++)	=	total cover		OBL species x 1 = FACW species x 2 =
- 17 M. HOLL CARDS II VANTACA	70	*	FACE	FAC species x3 = FACU species x4 =
4			=	UPL species x 5 = Column Totals: (A) (B)
5	-			Prevalence Index = B/A =
26		= Total Cov		Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 10) 1		total cover		1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0'
2	=			Problematic Hydrophytic Vegetation¹ (Explain)
5		=	=	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6	_		_	Definitions of Five Vegetation Strata:
50% of total cover: Herb Stratum (Plot size:5 f+)		= Total Cov total cover	91	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Juneus schmineths	75	*	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
2. Andre joger virginieus			_	than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines,
		=	_	approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
5 7 3.	\equiv	\equiv	\equiv	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
9	=			Woody vine - All woody vines, regardless of height.
111	_	= Total Cov		
50% of total cover: 7 0 Woody Vine Stratum (Plot size:)	20% of	total cover		
1				
3.	=			
5.	=	Total Cov	er .	Hydrophytic Vegetation
50% of total cover:	20% of	total cover		Present? Yes No

Sampling Point: 01-Wh3-25

Depth	ription: (Describe	to the depu	needed to	Redox F			or commit	ne abetine c	, mulaus s.,
(inches)	Color (moist)	- 36	Color (mor		%_	Type	Loc'	Texture	Remarks
0-18	104R 5/2	85	54K 41	6	10		M	5.0	
			54K 3	14	5_	C	M		
			21						
				-					
					-				
_					_				
Type: C=C	oncentration, D=Dep	Intion DM=C	aducad Mai	dv MS=1	Maskad	Sand Gr	ains.	² Location: F	L=Pore Lining, M=Matrix.
	Indicators: (Applic						2010	Indicators fo	or Problematic Hydric Soils1:
Histosot	The second section in						RR S, T, U)		ick (A9) (LRR O)
_ Histic Ep	oipedon (A2)			ark Surfa		The second second	True h		ick (A10) (LRR S)
_ Black Hi				Mucky M			0)	Reduced	d Vertic (F18) (outside MLRA 150A nt Floodplain Soils (F19) (LRR P. S.
	n Sulfide (A4) Layers (A5)		The second second	Gleyed I ed Mairix		2)			ous Bright Loamy Soils (F20)
The second secon	Bodies (A6) (LRR P.	T.UI		Dark Sur	CALL THE TAX	6)			A 153B)
	icky Mineral (A7) (LF	the state of the s	The second second	ed Dark S	7	-		Red Pan	ent Material (TF2)
Muck Pr	esence (A8) (LRR U)		Depress)			allow Dark Surface (TF12)
	ick (A9) (LRR P, T)	200.00		10) (LRR				_ Other (E	xplain in Remarks)
200	d Below Dark Surface ark Surface (A12)	e (A11)		ed Ochric			RR O, P. T)	3Indicat	tors of hydrophytic vegetation and
	raine Redox (A16) (A	ILRA 150A)	A 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Surface					nd hydrology must be present.
	lucky Mineral (S1) (L			Ochric (F1			7.000	unles	is disturbed or problematic.
_ Sandy G	lleyed Matrix (S4)						DA, 150B)		
	edox (S5)		Piedmo	ont Flood	plain So	ils (F19)	MLRA 1494	1) 149A, 153C, 1	(53D)
The second second	Matrix (S6) rface (S7) (LRR P, S	T.10	Anoma	lous brig	nt Loan	y Sons (r	20) (MLNA	1400, 1550, 1	1530)
	ayer (if observed):								
MODUICUVE L									
	,		_						- V
Туре:			2					Hydric Soll P	resent? Yes X No
								Hydric Soll P	resent? Yes X No
Type: Depth (inc				-				Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soll P	resent? Yes X No
Type: Depth (inc								Hydric Soll P	resent? Yes X No
Type: Depth (inc			=					Hydric Soli P	resent? Yes X No
Type: Depth (inc			=					Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No
Type: Depth (inc			-					Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No
Type: Depth (inc			-					Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No
Type: Depth (inc								Hydric Soil P	resent? Yes X No

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Ballard Sampling Date: Project/Site: Sampling Point 01-WAS State: Applicant/Owner Section, Township, Range: N P Investigator(s): Concaul Local relief (concave, convex, none): Landform (hillstope, terrace, etc.): 7.021882 895448 Datum: NN083 K Subregion (LRR or MLRA): NWI classification: NA Soil Map Unit Name: LDD3 (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are "Normal Circumstances" present? Yes Are Vegetation ____, Soil ____, or Hydrology _____ significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation __ naturally problematic? __, Soil ___ or Hydrology SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: upland point for HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Aquatic Fauna (B13) Surface Water (A1) Drainage Patterns (B10) Marl Deposits (B15) (LRR U) High Water Table (A2) Moss Trim Lines (B16) Hydrogen Sulfide Odor (C1) Saturation (A3) Dry-Season Water Table (C2) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mai or Crust (84) Shallow Aquitard (D3) Other (Explain in Remarks) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): Surface Water Present? Depth (inches): Water Table Present? Wetland Hydrology Present? Yes Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Sampling Point: 01-WK5-26 VEGETATION (Five Strata) - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Species? Status Number of Dominant Species That Are OBL. FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: # Total Cover Total % Cover of: Multiply by: 20% of total cover: 50% of total cover: OBL species _____ x1 = _____ Sapling Stratum (Plot size: FACW species _____ x 2 = ____ FAC species _____ x 3 = ____ FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: = Total Cover 50% of total cover: _____ 20% of total cover: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% Shrub Stratum (Plot size: __ 3 - Prevalence Index is ≤3.0 Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: = Total Cover Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. 50% of total cover: 20% of total cover: (7.6 cm) or larger in diameter at breast height (DBH). Herb Stratum (Pjot size: 1. Scholonorus arundinaceus Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less 2. Andropian Ultginicus than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 11. = Total Cover 50% of total cover: 47:5 20% of total cover: 19 Woody Vine Stratum (Plot size: _____) Hydrophytic Vegetation = Total Cover Present? 20% of total cover: 50% of total cover. __ Remarks: (If observed, list morphological adaptations below).

Depth Desc			o me deb	th needed to docum	x Feature		27100		
(inches)	Color (m	Matrix noist)	%	Color (moist)	%	Type	Loc	Texture	Remarks
0-18	10412		90	7.5485/U	10		M	S.C	
	14-11-11						1.0	10.7	
	-		_				-	=	
			_		_		_	_	
	_		_		_	_	$\overline{}$		
					_	-			
							_		
	-		_						
T C-C		D-Daul	tion DM	Reduced Matrix, MS	Macka	d Sand Gr	ains	³ Location:	PL=Pore Lining, M=Matrix.
tydric Soil I	ndicators:	(Applica	ble to all	LRRs, unless other	wise no	ted.)		Indicators	for Problematic Hydric Soils':
_ Histosol			419,040,000	Polyvalue Be			RR S, T, L		Muck (A9) (LRR O)
	ipedon (A2)			Thin Dark Su				2 cm N	Muck (A10) (LRR S)
_ Black His				Loamy Mucky				Reduc	ed Vertic (F18) (outside MLRA 150A,
	n Sulfide (A4	4)		Loamy Gleye	d Matrix	(F2)		Piedm	ont Floodplain Soils (F19) (LRR P, S, T
_ Stratified	Layers (A5))		Depleted Mat					alous Bright Loamy Soils (F20) RA 153B)
	Bodies (A6)		The second second	Redox Dark S				(ML)	arent Material (TF2)
	cky Mineral				The state of the s			Very S	hallow Dark Surface (TF12)
	esence (AB)	The second second		Redox Depre Mari (F10) (L	and the second second	-0)		Other	(Explain in Remarks)
The second secon	ck (A9) (LRI Below Dark		(411)	Depleted Oct		(MLRA 15	51)		
	rk Surface ((ALL)	Iron-Mangane	se Mass	es (F12) (I	LRR O, P.	T) Indic	ators of hydrophytic vegetation and
Coast Pr	airie Redox	(A16) (M	LRA 150		ce (F13)	(LRR P, T,	U)	wet	land hydrology must be present.
	lucky Minera			Delta Ochric	(F17) (MI	LRA 151)			ess disturbed or problematic.
	leyed Matrix			Reduced Ver	tic (F18)	(MLRA 15	0A, 150B)	dis.	
		100		_ Piedmont Flo	odplain S	ioils (F19)	(MLRA 14	9A)	4520)
_ Sandy R	enox (22)						THE REAL PROPERTY.		
Stripped	Matrix (S6)	Tara and	5	Anomalous B	right Loa	my Soits (F	20) (MLR	A 149A, 153C	, 1530)
Stripped Dark Sur	Matrix (S6) face (S7) (L		π, υ)	Anomalous B	right Loa	my Soils (F	F20) (MLR.	A 149A, 153C,	, 1550)
Stripped Dark Sur Restrictive L	Matrix (S6) face (S7) (L		π, u)	Anomalous B	right Loa	my Soils (F	F20) (MLR.	A 149A, 153C	, 1550)
Stripped Dark Sur Restrictive L Type:	Matrix (S6) face (S7) (L ayer (if obs		x, u)	Anomalous B	right Loa	my Soils (F	F20) (MLR.		V
Stripped Dark Sur Restrictive L	Matrix (S6) face (S7) (L ayer (if obs		λ, υ)	Anomalous B	right Loa	my Soits (F	F20) (MLR.		Present? Yes No X
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ir, u)	Anomalous B	right Loa	my Soits (F	F20) (MLR.		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		χ, υ)	Anomalous B	right Loa	my Soits (F	(MLR		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		.π, υ)	Anomalous B	right Loa	my Soits (F	(MLR		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs			Anomalous B	right Loa	my Soits (F	(MLR		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ສັ, ບ <u>ົ</u> ງ	Anomalous B	right Loa	my Soits (F	(MLR.		V
Stripped Dark Sur Restrictive L Type:	Matrix (S6) face (S7) (L ayer (if obs		.π, υ <u>)</u>	Anomalous B	right Loa	my Soits (F	(MLR		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ά, υ <u>)</u>	Anomalous B	right Loa	my Soits (F	(MLR		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		.т, uj	Anomalous B	right Loa	my Soits (F	(MLR		
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		.т, uj	Anomalous B	right Loa	my Soits (F	(MLR		
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		à, uj	Anomalous B	right Loa	my Soits (F	(MLR		
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ά, υ <u>)</u>	Anomalous B	right Loa	my Soits (F	(MLR		
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		à, uj	Anomalous B	right Loa	my Soits (F	(MLR.		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ж, uj	Anomalous B	right Loa	my Soits (F	(MLR.		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ά, υ <u>)</u>	Anomalous B	right Loa	my Soits (F	(MLR.		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ж, uj	Anomalous B	right Loa	my Soits (F	(MLR.		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ά, υ <u>)</u>	Anomalous B	right Loa	my Soits (F	(MLR.		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ά, υ <u>)</u>	Anomalous B	right Loa	my Soits (F	(MLR.		
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ά, υ <u>)</u>	Anomalous B	right Loa	my Soits (F	(MLR.		
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ά, υ <u>)</u>	Anomalous B	right Loa	my Soits (F	(MLR.		
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ά, υ <u>)</u>	Anomalous B	right Loa	my Soits (F	(MLR.		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ά, υ <u>)</u>	Anomalous B	right Loa	my Soits (F	(MLR.		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ά, υ <u>)</u>	Anomalous B	right Loa	my Soits (F	(MLR.		V
Stripped Dark Sur Restrictive L Type: Depth (inc	Matrix (S6) face (S7) (L ayer (if obs		ά, υ <u>)</u>	Anomalous B	right Loa	my Soits (F	(MLR.		v

WETLAND	DETERMINATION DATA	FORM - At	lantic and C	Bulf Coastal P	lain Region
Project/Site: Sun Sparrow	Dular	City/County: _	Beller	Q.	Sampling Date: 2-23-23
	in it is	Cityrounity		-	
Applicant/Owner: SKCK	vwwy	Section, Town	ship, Range: _	State 127	Sampling Point:
Landform (hillslope, terrace, etc.):	Field edge			none): Conc	CU€ Slope (%): 2
				\$8.91480	
110	Lat SI	20 481	Long		ATH Daton Alas
Soil Map Unit Name: V C	mg gra n.36 1.36 a ma.	*	1 vo	NWI classifi	
Are climatic / hydrologic conditions				(If no, explain in F	^
Are Vegetation, Soil	, or Hydrologysignificantly	y disturbed?		I Circumstances"	
Are Vegetation, Soil				explain any answe	
SUMMARY OF FINDINGS -	Attach site map showing	g sampling	point location	ons, transects	s, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No No Yes No	, A - 12	Sampled Area wetland?	Yes_X	No
Remarks:					
11)	Wetland point P	ir	01-	W-14 PEM	
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of on	e is required; check all that apply)			Surface Soil	Cracks (B6)
X Surface Water (A1)	Aquatic Fauna (B1			Sparsely Ver	getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15	5) (LRR U)		X Drainage Pa	ttems (B10)
⊀ Saturation (A3)	Hydrogen Sulfide (Moss Trim Li	
Water Marks (B1)	→ Oxidized Rhizosph	eres along Livin	g Routs (C3)	- CO. C. C.	Water Table (C2)
Sediment Deposits (B2)	Presence of Reduc			Crayfish Burn	
Drift Deposits (B3)	Recent Iron Reduc		ils (C6)	The second secon	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface	The state of the s			Position (D2)
Iron Deposits (B5)	Other (Explain in R	lemarks)		FAC-Neutral	
Inundation Visible on Aerial Im-	agery (B7)				noss (D8) (LRR T, U)
Water-Stained Leaves (B9)			1	Spriagram n	1000 (00) (001 1,0)
Field Observations:	Y No Depth (inches)	0	-		
Surface Water Present? Yes	M more policies				
Water Table Present? Yes	X No Depth (inches)	-	Wetland H	lydrology Preser	nt? Yes X No
Saturation Present? Yes (includes capillary fringe)				ACTUAL PLAN	0 19 15
Describe Recorded Data (stream ga	luge, monitoring well, aenal photo	s, previous insp	sections), il ava	mable.	
Remarks:					

VEGETATION (Five Strata) - Use scientific names of plants. Sampling Point: 01-UMS-27 Absolute Dominant Indicator % Cover Species? Status Dominance Test worksheet: Tree Stratum (Plot size: ____) Number of Dominant Species That Are OBL. FACW, or FAC Total Number of Dominant Species Across All Strata Percent of Dominant Species 100 That Are OBL, FACW, or FAC: Prevalence Index worksheet: = Total Cover Total % Cover of: Multiply by: 50% of total cover: 20% of total cover: Sapling Stratum (Plot size: OBL species _____ x 1 = ____ FACW species _____ x 2 = ____ FAC species _____ x 3 = _____ FACU species x 4 = UPL species x5= Column Totals: (A) (B) Prevalence Index = B/A = = Total Cover Hydrophytic Vegetation Indicators: 50% of total cover: _____ 20% of total cover: ____ ★ 1 - Rapid Test for Hydrophytic Vegetation Shrub Stratum (Plot size: ¥ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: = Total Cover Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 1. Puckery Misbella Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less 10 than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines. approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 70 = Total Cover 50% of total cover: 35 20% of total cover: 14 Woody Vine Stratum (Plot size: _____) Hydrophytic

50% of total cover: ___

Remarks: (If observed, list morphological adaptations below).

= Total Cover

20% of total cover:

Yes X No__

Vegetation

Present?

Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of Indicators.) Depth Matrix Redox Features. Inches) Color minols S Color minols S Type Loc Texture Remarks O-18 10465/7 75 7.5 9k 4/6 10 C MPL 5 C IO465/7 15 7.5 9k 4/6 10 C MPL 5 C IO465/7 15 7.5 9k 4/6 10 C MPL 5 C IO465/7 15 7.5 9k 4/6 10 C MPL 5 C IO465/7 15 7.5 9k 4/6 10 C MPL 5 C IO465/7 15 7.5 9k 4/6 10 C MPL 5 C IO465/7 15 7.5 9k 4/6 10 C MPL 5 C IO465/7 15 7.5 9k 4/6 10 C MPL 5 C IO465/7 15 7.5 9k 4/6 10 C MPL 5 C IO465/7 15 7.5 9k 4/6 10 C MPL 5 C IO466/7 15 7.5 10 C IO466/7 15 7.5 10 C IO466/7 15 7.5 10 C IO466/7 15 7.5 10 C IO466/7 15 7.5 10 C IO466/7 15 7.5 10 C IO466/7 15 7.5 10 C IO466/7 15 7.5 10 C IO466/7 15 7.5 10 C IO466/7 15 7.5 10 C IO466/7 15 7.5 10 C IO466/7 15 7.5 10 C IO466/7 15 7.5 10 C IO466/7 1	Desilla Dana	dellare (Describe)	- the deat	b needed to docur	nent the	Indicator	or confirm	the absence of I	Sampling Point: 01-WA
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: S=Concentration, M=Masked Sand Grains. Type: S=Concentration, Msanded Sand Grains. Type: S=Concentration, Msanded Sand Grains. Type: S=Concen	17.4		o me cept						
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Tocation: PL=Pore Lining, M=Matrix.	2000		4		%		Loc	Texture	Remarks
Type: C=Concentration. D=Depletion. RM=Reduced Matrix. MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Corganic Bodies (A6) Torganic Bodies (A6) (LRR P, T, U) Torganic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F6) Torganic Bodies (A6) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Partirie Redox (A16) (MLRA 150A) Depleted Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Piedmont Floodplain Reduced (A12) Depleted Ochric (F11) (MLRA 150A, 150B) Sandy Servace (A16) (MLRA 150A) Dark Surface (A12) Coast Partire Redox (A16) (MLRA 150A) Jindicators for Problematic Hydric Soils*: Indicators				10	(MIPL	5.6.	N. Fall 12	
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Black Histic (A3)		Total Control of the Control						2 cm Muck	(A10) (LRR S)
Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T) Depleted Matrix (F2) Mark Presence (A8) (LRR U) Torn Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, T, U) Piedmont Floodplain Soils (F19) (LRR P, T, U) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Piedmont Floodplain Soils (F19) Mark (F1) MLRA 151) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 151) Redox Dark Surface (F1) Mark (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Jindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Piedmont Floodplain Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Hydric Soil Present? Yes No		THE RESERVE OF COMMERCE						Reduced \	/ertic (F18) (outside MLRA 150A,
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Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type:	the second secon			Iron-Mangane	se Mas	ses (F12) (LRR O, P.	T) Indicator	s of hydrophytic vegetation and
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Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (Inches): Hydric Soil Present? Yes No				Piedmont Flo	odplain :	Solls (F19)	(MLRA 14	9A)	22.7
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No		1000 S. S.		Anomalous B	right Loa	my Soils (F20) (MLR	A 149A, 153C, 15	3D)
Type: Hydric Soil Present? YesX No			T, U)	Carry Street, A		4			
Depth (inches): Hydric Soil Present? Yes A No	Restrictive L	eyer (if observed):							
Depth (inches).	Type:			_				Martin Call Con	costs Vac V No.
Remarks:	Depth (incl	nes):		-				Hydric Soil Pre	sentr res_A_NO
	Remarks:								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: The World Project/Site: Sampling Point: 61-445-28 Applicant/Owner: Section, Township, Range: AAA Investigator(s): Local relief (concave, convex, none): (Driceus Landform (hillslope, terrace, etc.): Datum: NAD 83 12, Cy Long: -88.414763 030453 LARP Subregion (LRR or MLRA): NWI classification: Soil Map Unit Name: (If no. explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation _____, Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X (If needed, explain any answers in Remarks.) ___, Soil _____, or Hydrology _____ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? No Remarks: upland print For HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Aquatic Fauna (B13) Surface Water (A1) Drainage Patterns (B10) Marl Deposits (B15) (LRR U) High Water Table (A2) Moss Trim Lines (B16) Hydrogen Sulfide Odor (C1) Saturation (A3) Dry-Season Water Table (C2) Oxidized Rhizospheres along Living Roots (C3) Water Marks (H1) Crayfish Burrows (C8) Presence of Reduced Iron (C4) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mat or Crust (B4) Shallow Aquitard (D3) Other (Explain in Remarks) Iron Deposits (B5) __ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): Surface Water Present? Depth (inches): Water Table Present? Wetland Hydrology Present? Yes Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Tree Stratum (Plot size:)		Species?	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
				Species Actuss All Strate:
		_	_	Percent of Dominant Species (A/B
		_	_	That Are OBL, FACW, or FAC: (A/B
		-		Prevalence Index worksheet:
		= Total Co		Total % Cover of: Multiply by:
50% of total cover.	20% o	total cover		OBL species x1 =
aoling Stratum (Plot size:)				FACW species x 2 =
				FAC species x 3 =
			_	FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (B)
		-		Prevalence Index = B/A =
		= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover.				1 - Rapid Test for Hydrophytic Vegetation
		10100 00100		2 - Dominance Test is >50%
hrub Stratum (Plot size:)				3 - Prevalence Index is ≤3.01
				Problematic Hydrophytic Vegetation¹ (Explain)
			_	_ Problematic Hydrophytic Vegetation (Explain)
			_	Various and the second second
	-	-		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	_	-		
		_		Definitions of Five Vegetation Strata:
		= Total Cov	er	Tree - Woody plants, excluding woody vines,
50% of total cover:	20% of	total cover		approximately 20 ft (6 m) or more in height and 3 in.
FC+ 1				(7.6 cm) or larger in diameter at breast height (DBH).
Zen mms	56	×	UPL	Sapling - Woody plants, excluding woody vines,
Shillery mulia	15		LUPL	approximately 20 ft (6 m) or more in height and less
			MPL	than 3 in. (7.6 cm) DBH.
Limina parparisan				Shrub - Woody plants, excluding woody vines,
		_	_	approximately 3 to 20 ft (1 to 6 m) in height.
		_		Herb - All herbaceous (non-woody) plants, including
		_	_	herbaceous vines, regardless of size, and woody
				plants, except woody vines, less than approximately
			_	3 ft (1 m) in height.
				Woody vine - All woody vines, regardless of height.
				HOODY VIIIE - All HOODY VIIIGO, ISGUISIOSO OF ITO-BITTE
	86 .	Total Cov	er	
50% of total cover: 40		total cover:	7.141	
	2070 01	total cover.		
pody Vine Stratum (Plot size:)				
	_	_		
	-		_	
		_		
/				
				Hydrophytic
		Total Cov	er	Vegetation
50% of total cover.		total cover:		Present? Yes No

Depth	Matrix		Redo	x Features		the absence of Inc		
(inches)	Color (moist)	% C	lor (moist)	_%_ IV	pe Loc	Texture	Remar	rks
0-18	1044 514	106			_	8 C _		
		===		7	34			
		==						
Type: C=C	oncentration, D=Deplet	ion, RM=Redu	ced Matrix, MS	=Masked Sar	nd Grains.	² Location: PL=P Indicators for Pr	ore Lining, Mak	Matrix.
No. of Concession, Name of Street, or other transferred	indicators: (Applicab	le to all LRRs			88) (LRR S, T, U			10.000
Histosol	(A1) sipedon (A2)	_		rface (S9) (LR		2 cm Muck (/	(10) (LRR S)	
	stic (A3)			y Mineral (F1)		Reduced Ver	tic (F18) (outsi	de MLRA 150A,B)
	n Sulfide (A4)	=		d Matrix (F2)		Piedmont Flo	odplain Solls (f	19) (LRR P, S, T)
	Layers (A5)	4	Depleted Ma	THE RESERVE OF THE PARTY OF THE			right Loamy So	ils (F2U)
	Bodies (A6) (LRR P, T		Redox Dark	Control of the Contro		(MLRA 153 Red Parent M	The second second	
	cky Mineral (A7) (LRR	P, T, U) _	Redox Depre	k Surface (F7)			Dark Surface (TF12)
	esence (A8) (LRR U) ick (A9) (LRR P, T)	_	Mart (F10) (L			_ Other (Explain	n in Remarks)	
	Below Dark Surface (A11)		ric (F11) (ML	RA 151)			/ M. A. T. A.
	rk Surface (A12)		Iron-Mangan	ese Masses (F	12) (LRR O, P.		f hydrophytic v	
	rairie Redox (A16) (ML	A second second second		ce (F13) (LRR			drology must b turbed or proble	
	lucky Mineral (S1) (LR	RO, S)		(F17) (MLRA			aroed of proces	eniana.
The second second second second	leyed Matrix (S4)	100			(A 150A, 150B) (F19) (MLRA 14			
	edox (S5) Matrix (S6)	- T	Anomalous B	right Loamy S	oils (F20) (MLR.	A 149A, 153C, 153D	100	
	face (S7) (LRR P, S, 1	r, U)						
	ayer (if observed):							4
Type:		_				Hydric Soil Prese	nt? Yes	No X
Depth (inc	xhes):					10/2010 0001 (1000	9.0	
Remarks:								

WETLAND DETERMINATION DATA FORM - Atlantic and Guif Coastal Plain Region City/County: Ballarel _____ Sampling Date: 2-73-23 Project/Site: State: Ky Sampling Point: 01- WAS- 25 Applicant/Owner: Section, Township, Range: NA Investigator(s): Local relief (concave, convex, none): (24) CG41 toesl-ke Landform (hillslope, terrace, etc.): Datum: MAD83 Kg Kg Long: -68, 910 35 Z 37.020334 Subregion (LRR or MLRA): LRR P NWI classification: NA Soil Map Unit Name: 6553 (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are "Normal Circumstances" present? Yes _ X No_ significantly disturbed? Are Vegetation _____, Soil _____, or Hydrology ____ (If needed, explain any answers in Remarks.) naturally problematic? Are Vegetation . Soil __, or Hydrology ____ SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes No Remarks: Wethen point for PEM HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Aquatic Fauna (B13) Surface Water (A1) Marl Deposits (B15) (LRR U) X Drainage Patterns (B10) High Water Table (A2) __ Moss Trim Lines (B16) Hydrogen Sulfide Odor (C1) X Saturation (A3) __ Dry-Season Water Table (C2) Y Oxidized Rhizospheres along Living Roots (C3) Water Marks (EH) __ Crayfish Burrows (C8) Presence of Reduced iron (C4) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) ¥ Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) __ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): Surface Water Present? Water Table Present? Depth (inches): Wetland Hydrology Present? Yes Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Remarks:

Tree Stratum (Plot size:)	% Cover	Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant 7
3	_	_		Species Across All Strata: (B)
			_	Percent of Dominant Species 00
5	_		_	That Are OBL, FACW, or FAC: (A/
				Prevalence Index worksheet:
		= Total Cov		Total % Cover of: Mulliply by:
50% of total cover:	20% of	total cover	-	OBL species x1 =
Sapling Stratum (Plot size:)				FACW species x2 =
	_	_	_	FAC species x3 =
	_		_	FACU species x4 =
		_	_	UPL species x 5 =
			_	Column Totals: (A) (E
				Prevalence Index = B/A =
		= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
hrub Stratum (Plot size:)				x 2 - Dominance Test is >50%
	_		_	3 - Prevalence Index is ≤3.0 ¹
				Problematic Hydrophytic Vegetation (Explain)
				Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Five Vegetation Strata:
		Total Cov	er	Tree - Woody plants, excluding woody vines,
50% of total cover				approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Phone CVISpus Andropo gun virginicus	30	X	FAL	Sapling - Woody plants, excluding woody vines,
Andrews are with nices	30	X	FAC	approximately 20 ft (6 m) or more in height and less
Zen mays	10		LAPL	than 3 in. (7.6 cm) DBH.
				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
				Herb - All herbaceous (non-woody) plants, including
	_			herbaceous vines, regardless of size, and woody
				plants, except woody vines, less than approximately 3 ft (1 m) in height.
	_			The second secon
	_	_		Woody vine - All woody vines, regardless of height
			_	
	7	-777		
		Total Cove	40	
50% of total cover: 35	_ 20% of	total cover:	1.1	
pody Vine Stratum (Plot size:)				
			_	
1			_	
				Hydrophytic
		Total Cove	r	Managedian
50% of total cover:		otal cover:		Present? Yes Y No
DU /e DI IUIAI COVEI				

Sampling Point: 61-WAS-79

(inches)	Matrix			x Features		7.77	the absence of i	- Takensal
	Color (moist)	_%_	Color (moist)	-%	Type	Loc2	Texture	Remarks
0-18	104n 6/2	70 7.	541416	15	C	MIPL	5.C.	3.77.0
	109125/4	15						
				_	_			
				_	_	-		
_				_	_	-		
				\sim		-		
	_							
Type: C=Co	ncentration, D=Dep	letion, RM=Re	duced Matrix, MS	S=Masked	Sand Gr	ains.		Pore Lining, M=Matrix.
	ndicators: (Applic	able to all LR			The state of the s			Problematic Hydric Solls ³ :
Histosol (pedon (A2)	-	Polyvalue Be Thin Dark Su					(A9) (LRR O)
Black His			_ Loamy Muck					(A10) (LRR S) Pertic (F18) (outside MLRA 150A,B
	Sulfide (A4)		Loamy Gleye	-		,		loodplain Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Ma	and the second second second				Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		_ Redox Dark				(MLRA 1	CCCA CARTAN
	ky Mineral (A7) (LI		Depleted Dar					Material (TF2)
	sence (A8) (LRR U ck (A9) (LRR P, T)	,	Redox Depre Marl (F10) (L	A STATE OF THE STA	3)			w Dark Surface (TF12) lain in Remarks)
	Below Dark Surface	e (A11)	Depleted Oct		MI RA 1	51)	Other (Exp	an in Remarks)
	rk Surface (A12)	-,,	Iron-Mangan) ³ Indicators	s of hydrophytic vegetation and
Coast Pre	airie Redox (A16) (I	MLRA 150A)	Umbric Surfa					hydrology must be present.
	ucky Mineral (S1) (I	LRR O, S)	_ Delta Ochric				unless d	listurbed or problematic.
The state of the s	eyed Matrix (S4)		Reduced Ver	C101 40 11 11 11 11 11 11 11 11 11 11 11 11 11				
	edox (S5) Matrix (S6)		Piedmont Flo	4 1 7 1 1 1 1 1		Market Street	A) 149A, 153C, 153	EDV.
	face (S7) (LRR P. 5	3. T. U)	_ Anomalous E	rigin coun	ily cons (ze/ (meta-	1930, 1930, 193	
	ayer (if observed)							
Type:			-0					~
Depth (incl	hes):						Hydric Soil Pres	sent? Yes No
Remarks:	1							
	1							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

	rrow Siler	City	/County:	State	Vv. s	ampling Date:	2-23-23 01-WAS-3
Applicant/Owner: Clea	arway			AM	14 5	ampling Point:	
Investigator(s):	Llistop		tion, Township, I	, convex, none):	e abrear	Clar	oe (%): 1
Landform (hillslope, terrace, etc.):_	LRRP			Long: -85.			tum: NAD83
Subregion (LRR or MLRA):		_ Lat: _ 3 1, 01	.0 34 7			4.14	ium: Nineos
Soil Map Unit Name:		OF THE CAS			WI classification		
Are climatic / hydrologic conditions			400	(If no, e		the same of the same of the	J
Are Vegetation, Soil	or Hydrology	significantly dist		e "Normal Circum			No
Are Vegetation, Soil	, or Hydrology	naturally probler	natic? (If	needed, explain	any answers i	n Remarks.)	
SUMMARY OF FINDINGS -	Attach site m	ap showing sa	mpling point	locations, tr	ansects, ir	mportant fe	atures, etc.
Hydrophytic Vegetation Present?	Yes	No X	Is the Sample	ad Area			
Hydric Soil Present?	Yes	No	within a Wetl		Yes	No X	
Wetland Hydrology Present?	Yes	No_A	within a veu	anor	100	2002	
	hipian	posint fo		1-W-15			
HYDROLOGY							Supremiliand)
Wetland Hydrology Indicators:		And Comme				(minimum of	wo required)
Primary Indicators (minimum of on					rface Soil Cra		Surface (DW)
Surface Water (A1)		atic Fauna (B13)	- · · ·		arsely vegeta linage Pattern	ted Concave S	driace (60)
High Water Table (A2)		l Deposits (B15) (LR rogen Sulfide Odor (5.07		ss Trim Lines		
Saturation (A3)		fized Rhizospheres	the second secon	The second secon		er Table (C2)	
Water Marks (B1) Sediment Deposits (B2)		sence of Reduced In			yfish Burrows		
Drift Deposits (B3)		ent Iron Reduction in		Sat	uration Visible	e on Aerial Ima	igery (C9)
Algal Mat or Crust (B4)	Thin	Muck Surface (C7)			omorphic Pos		
Iron Deposits (B5)	Othe	er (Explain in Remar	ks)	-	allow Aquitard		
Inundation Visible on Aerial Im	agery (B7)			100 100 100 100 100 100 100 100 100 100	C-Neutral Tes	Commence of the same	ox I
Water-Stained Leaves (B9)				_ Spr	nagnum moss	(D8) (LRR T,	U)
Field Observations:		Depth (inches):					
Surface Water Present? Yes	24	Depth (Inches):					7
Water Table Present? Yes		Depth (inches):	w	etland Hydrolog	v Present?	Yes	No 3
Saturation Present? Yes (includes capillary fringe)					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		100
Describe Recorded Data (stream ga	auge, monitoring we	ell, aerial photos, pre	vious inspection	s), if available:			
Remarks:							
							- 1
							1
							1

	% Cover	Species		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
				Species Across All Strata: (B)
	_	_	_	Percent of Dominant Species
		_	_	That Are OBL, FACW, or FAC: (A
	_	D=0.00~	-	Prevalence Index worksheet:
manufacture and the second	_	= Total Co	2.91	Total % Cover of: Multiply by:
50% of total cover.	20% of	total cove		OBL species x 1 =
Sapling Stratum (Plot size:)				FACW species x2 =
	_	_		FAC species x 3 =
/	_	_		FACU species x 4 =
	_	_		UPL species x 5 =
				Column Totals: (A) (E
				Prevalence Index = B/A =
		= Total Co	ver	Hydrophytic Vegetation Indicators:
50% of total cover:				1 - Rapid Test for Hydrophytic Vegetation
hrub Stratum (Plot size:)				2 - Dominance Test is >50%
The State of the S				3 - Prevalence Index is ≤3.01
				Problematic Hydrophytic Vegetation¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
/				be present, unless disturbed or problematic.
				Definitions of Five Vegetation Strata:
		Total Co	ver	Tree - Woody plants, excluding woody vines,
50% of total cover:	20% of	total cover	:	approximately 20 ft (6 m) or more in height and 3 in.
erb Stratum (Plot size: 3 F.)				(7.6 cm) or larger in diameter at breast height (DBH).
Courtine mes	40	*	MOT	Sapling - Woody plants, excluding woody vines,
plantage languaget	9		LACK	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Transfer and the state of the s	1.7		PL	
Allium vincale	20		FACU	Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
				Herb - All herbaceous (non-woody) plants, including
	Part III			herbaceous vines, regardless of size, and woody
				plants, except woody vines, less than approximately 3 ft (1 m) in height.
				Woody vine - All woody vines, regardless of height.
	90 =	Total Cov	er	
50% of total cover: 40	_ 20% of t	otal cover:	14	
loody Vine Stratum (Plot size:)				
/				Hydrophytic
		Total Cov	er	Vegetation
		otal cover:		Present? Yes No

	cription: (Describe	to the depth r		x Feature		or some	accounts		
Depth (inches)	Color (moist)	%	Color (moist)	**		Loc	Texture	Re	marks
0-18	1048 5/41	160				_	5.6:		
_									
_				-	_	_	(Table 1)		
				-	-				
			7 T. T. T. T. T. T.	70 60	-	-	A section: 5	PL=Pore Lining.	M=Matrix
Type: C=Co	oncentration, D=Depl Indicators: (Applica	etion, RM=Re	duced Matrix, Ma	S=Masked	Sand Gr	ains.	Indicators for	or Problematic	Hydric Soils3:
Histosol		able to all LR	Polyvalue Be			RR S. T. L		ck (A9) (LRR O	
	pipedon (A2)		_ Thin Dark Su				2 cm Mu	ck (A10) (LRR	S)
_ Black Hi	A CONTRACTOR OF THE PROPERTY O		Loamy Muck				Reduced	d Vertic (F18) (o	utside MLRA 150A,B
	n Sulfide (A4)		_ Loamy Gleye		(F2)		Piedmor	nt Floodplain So ous Bright Loam	is (F19) (LRR P, S, T
	Layers (A5)		_ Depleted Ma		TOY.			4 153B)) Doild (1 20)
	Bodies (A6) (LRR P, cky Mineral (A7) (LR		Redox Dark : Depleted Dar		, P		Red Par	ent Material (TF	2)
	esence (A8) (LRR U)		Redox Depre				Very Sh	allow Dark Surfa	ice (TF12)
	ck (A9) (LRR P, T)		Mart (F10) (L	RR U)			_ Other (E	xplain in Remar	ks)
	Below Dark Surface	(A11)	Depleted Oct	hric (F11)	(MLRA 1	51)	Ti 3Indical	ine of hydrochy	tic vegetation and
	rk Surface (A12)		Iron-Mangane Umbric Surfa					nd hydrology mi	
	rairie Redox (A16) (N lucky Mineral (S1) (L		Delta Ochric			, 0,		s disturbed or p	
	ileyed Matrix (S4)	M. O. 31	_ Reduced Ver			OA, 150B)			
	edox (S5)	12	Piedmont Flo	odplain S	ioils (F19)	(MLRA 14	(A8)	ana.	
Stripped	Matrix (S6)	-/-	_ Anomalous B	right Loai	my Soils (F20) (MLR	A 149A, 153C,	(53D)	
_ Dark Sur	face (S7) (LRR P, S	(U, Y, U)				-			
	ayor (if observed):								- 3
Type:							Hydric Soil P	resent? Yes	No Y
Depth (inc	hes):		-		_	_	TO SOUTH OF THE PERSON NAMED IN COLUMN	1995011 - 111	
Remarks:									

WETLAND DETERMINATION DATA FORM - Atlantic and Guif Coastal Plain Region Ballard Project/Site: City/County:__ Sampling Date: 7-23-25 Applicant/Owner Clearwa State: Sampling Point: 01-W-31 SK Section, Township, Range: NA Investigator(s): tocslap Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Concave Lat: 37.021314 Long: - 58, 90 8761 Subregion (LRR or MLRA): Datum: NW143 Kyfor Soil Map Unit Name: NWI classification: (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes __, Soil ___ ___, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? No. is the Sampled Area Hydric Soil Present? No. within a Wetland? Wetland Hydrology Present? Remarks: wetland point HYDROLOGY Wetland Hydrology Indicators: Secondary indicators (minimum of two required) Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Y Surface Water (A1) Aquatic Fauna (B13) X Drainage Patterns (B10) High Water Table (A2) Marl Deposits (B15) (LRR U) Moss Trim Lines (B16) Saturation (A3) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (B1) Crayfish Burrows (C8) Sediment Deposits (B2) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) Y Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Yes Y No Depth (inches):_ Surface Water Present? X No Depth (inches): Water Table Present? Wetland Hydrology Present? Yes X X No Depth (inches): _ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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

Sampling Point 01-W45-31

Tree Stratum (Plot size:)	Absolute % Cover	Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL FACING or FAC: (A)
				That Are OBL, FACW, or FAC: (A)
2			_	Total Number of Dominant
			_	Species Across All Strata: 3 (B)
			_	Percent of Dominant Species
5			_	That Are OBL, FACW, or FAC: 100 (A/B
s/				200200000000000000000000000000000000000
(= Total Cov	er	Prevalence Index worksheet:
50% of total cover:	20% of	total cover		Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15f+)			3.77	OBL species x 1 =
1. Frazinus gunnsyl Varies	25	*	FACW	FACW species x 2 =
			-	FAC species x 3 =
3				FACU species x4 =
				UPL species x 5 =
		_		Column Totals: (A) (B)
5			_	
В	75		_	Prevalence Index = B/A =
222 00 4 4 5	-	= Total Co		Hydrophytic Vegetation Indicators:
50% of total cover:	20% 0	total cover		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)				_ ★2 - Dominance Test is >50%
1		_	_	3 - Prevalence Index is ≤3.01
2		_	_	Problematic Hydrophytic Vegetation¹ (Explain)
3		_	_	
4		_		1 Indicators of hydric soil and wetland hydrology must
5			_	be present, unless disturbed or problematic.
6.				Definitions of Five Vegetation Strata:
		= Total Co	ver	Tree - Woody plants, excluding woody vines,
50% of total cover:	20% o	total cover		approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 F+)		3.4.000		(7.6 cm) or larger in diameter at breast height (DBH).
· Vernonia Clarate	40	y	FAC	Sapling - Woody plants, excluding woody vines,
1. Vernonia gigantea 2. Andropogon virginian	20		FAL	approximately 20 ft (6 m) or more in height and less
3. Elyma viberius	1b		FALL	than 3 in. (7.6 cm) DBH.
3. Enma Vibarias			1.00	Shrub - Woody plants, excluding woody vines,
4		_		approximately 3 to 20 ft (1 to 6 m) in height.
5		_		11. d. 40 bod
6			_	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
7		_	_	plants, except woody vines, less than approximately
8			-	3 ft (1 m) in height.
9			_	Woody vine - All woody vines, regardless of height.
10		_		Transfer in tracel tring to derende at trailing
11.		_		
V	70	= Total Co	ver .	
50% of total cover: 3	5 20% 0	total cover	19	
Woody Vine Stratum (Plot size:)	- 100			
1				
2				
3	-	_	_	
1			_	Would St.
5	-	-	_	Hydrophytic
	_	= Total Co	ver	Present? Yes No
50% of total cover:				Present? Yes No

Depth	ription: (Describe Matrix			Feature	5			
(inches)	Color (moist)	- %	Color (moist)	- %	Type	Loc	Texture	Remarks
BO-4	10412 41/2	106						
4-18	104× 4/2		7.542 4/6	15	C	M		
1 10			1.5 1.5 710	10				
	10412 5/7	75	-			_		
					-			
				_	-	_		
	Living to proper			1.7.6.		-	7 sention Dis	Pore Lining, M=Matrix.
	oncentration, D=Dep					ains.	Indicators for	Problematic Hydric Solls ³ :
	ndicators: (Applic	able to all L						
Histosol	Contract of the contract of th		Polyvalue Be					(A9) (LRR O)
	ipedon (A2)		_ Thin Dark Su		2.24		2 cm Muck	(A10) (LRR S) ertic (F18) (outside MLRA 150A,B)
Black Hi			Loamy Muck			(0)	Reduced V	loodplain Soils (F19) (LRR P. S. T)
	n Sulfide (A4)		Loamy Gleye		(F2)		Pleamont P	Bright Loamy Soils (F20)
	Layers (A5)	- 20	X Depleted Mai		re.		Anomalous	the state of the s
the second secon	Bodies (A6) (LRR P	The second second	Redox Dark				1000	Material (TF2)
	cky Mineral (A7) (LI		Depleted Dar					w Dark Surface (TF12)
	esence (A8) (LRR U	7)	Redox Depre		(0)			ain in Remarks)
	ck (A9) (LRR P, T)		Mari (F10) (L		MI DA	541	_ Chief (Exp	min in vernously
	Below Dark Surfac	20 (A11)	Depleted Oct			the state of the s	7) Indicator	s of hydrophytic vegetation and
	irk Surface (A12)							hydrology must be present.
	airie Redox (A16) (I		Delta Ochric	2 1 4 1 1 1 1 1 1	And a second	. 01		listurbed or problematic.
The second second	lucky Mineral (S1) (I	LKK U, S)	Reduced Ver			0A 150B)	unicase s	and the st property
The second secon	leyed Matrix (S4)		Piedmont Flo)A)	
	edox (S5)		Pleamont File	right I no	my Soile /	ESUI (MI B)	A 149A, 153C, 153	ID)
	Matrix (S6) face (S7) (LRR P, 5	T 11	Allottalous D	Hight Los	my Sons (20/ (1120	11101 1000, 100	-,
	ayer (If observed):			_			-	
	ayer (ii ouser reu)							
Type:			-				Mustale Call Day	sent? Yes \ No
Depth (inc	thes):						Hydric Soil Pres	sent? Yes No

WETLAND DETERMINATION DATA FORM - Atlantic and Guif Coastal Plain Region

Project/Site: See. S	perrau Sal		City/County:	Bellevil	Sampling Date: 7-23-23
Applicant/Owner:	21	wer	City/County.	State: Ky	Sampling Point: 01 - WAS-3
and the second second	/	100)	Castles Tausch	p, Range: MA	Sampling Point.
	K SK	Ca.S.			to see a de of
andform (hillslope, terrace, e		opa		ave, convex, none): [&hco	
Subregion (LRR or MLRA):	LRAF	Lat: _3/	021377	Long: 35,90835	Detum: NAD83
ioil Map Unit Name:	6			NWI class	ification: MA
ire climatic / hydrologic cond	itions on the site	typical for this time of y	ear? Yes	No (If no, explain in	Remarks.)
re Vegetation, Soil _	or Hydro	ology significantly	y disturbed?	Are 'Normal Circumstances	"present? Yes 1 No
re Vegetation, Soil	, or Hydro	ology naturally p	roblematic?	(If needed, explain any ansi	vers in Remarks.)
SUMMARY OF FINDIN	GS - Attac	h site map showin	g sampling po	int locations, transec	ts, important features, etc.
Hydrophytic Vegetation Pres Hydric Soil Present? Welland Hydrology Present?	Y	es No X es No Y	Is the Sar within a V	opled Area /etland? Yes	NoX
Remarks:		Mind	bring to	r 01-w-14	
YDROLOGY	form.			Consider ladi	nature (minimum of two namiford)
Wetland Hydrology Indicat		and the law amonds duck a			cators (minimum of two required)
Primary Indicators (minimum	of one is requi				il Cracks (B6)
Surface Water (A1) High Water Table (A2)		Aquatic Fauna (B1 Marl Deposits (B1		7	egetated Concave Surface (B8) attems (B10)
Saturation (A3)		Hydrogen Sulfide			Lines (B16)
Water Marks (B1)			neres along Living I	and the second s	Water Table (C2)
Sediment Deposits (B2)		Presence of Redu			irrows (C8)
Drift Deposits (B3)			ction in Tilled Soils		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Thin Muck Surface			c Position (D2)
Iron Deposits (B5)		Other (Explain in F		Shallow Aq	
Inundation Visible on Ae	rial Imagery (B)				al Test (D5)
Water-Stained Leaves (I					moss (D8) (LRR T, U)
Field Observations:		T 40 74 75			35.35.37.50.57.57
Surface Water Present?	Yes	No Y Depth (inches	s):		
Water Table Present?	Yes	No _ No _ Depth (inches):	Committee of the State of the S	and the second
Saturation Present? includes capillary fringe)	Yes	No X Depth (Inches	:	Wetland Hydrology Press	ent? Yes No X
Describe Recorded Data (stre	eam gauge, mo	nitoring well, aerial photo	os, previous inspec	tions), if available:	
Remarks:					
	3				
	/				
	/				

Tree Stratum (Plot size:) 1)	Absolute Dominant Indicator % Cover Species? Status	
		Total Number of Dominant Species Across All Strata: (B)
		Percent of Dominant Species O
		That Are OBL, FACW, or FAC: (A/
	= Total Cover	Prevalence Index worksheet:
50% of total cover.	20% of total cover.	Total % Cover of:Multiply by:
apling Stratum (Plot size:)		OBL species x 1 =
		FACW species x 2 = FAC species x 3 =
		FACU species x4 =
		UPL species x 5 =
		Column Totals: (A) (B
	= Total Cover	Prevalence Index = B/A =
50% of total cover	20% of total cover	Hydrophytic Vegetation Indicators:
hrub Stratum (Plot size:)		1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
		3 - Prevalence Index is \$3.0"
		Problematic Hydrophytic Vegetation¹ (Explain)
		_ resolution representation (corporate
		Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
		Definitions of Five Vegetation Strata:
A STATE OF THE STA	= Total Cover	Tree - Woody plants, excluding woody vines,
50% of total cover:	20% of total cover:	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
erb Stratum (Plot size: 5 F+)	go y up	(7.0 cm) or larger in diameter at breast neight (DBH).
Glycim max	10 WL	 Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
- Zee my-	10 WE	than 3 in. (7.6 cm) DBH.
		Shrub - Woody plants, excluding woody vines,
		approximately 3 to 20 ft (1 to 6 m) in height.
		Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
		plants, except woody vines, less than approximately 3 ft (1 m) in height.
0		Woody vine - All woody vines, regardless of height.
0, 1		
2	100 = Total Cover	
50% of total cover:	20% of total cover: 71	
Voody Vine Stratum (Plot size:)		
		
		Hydrophytic
PAN OFFICE STATES	= Total Cover	Present? Yes No
50% of total cover:	20% of total cover	

Redox Features			
	Loc2	Texture	Remarks
		<u>sc</u> _	
Reduced Matrix, MS=Masked Sand	Grains.	² Location: PL=	Pore Lining, M=Matrix.
Thin Dark Surface (S9) (LRR Loarny Mucky Mineral (F1) (U Loarny Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Ochric (F11) (MLR U) Iron-Manganese Masses (F1 Umbric Surface (F13) (LRR I) Delta Ochric (F17) (MLRA 11 Reduced Vertic (F18) (MLRA 12	S, T, U) RR O) A 151) 2) (LRR O, P, 7, T, U) 51) 150A, 150B)	2 cm Muck Reduced V Piedmont F Anomalous (MLRA 1: Red Parent Very Shallo Other (Expl	(A9) (LRR O) (A10) (LRR S) ertic (F18) (outside MLRA 150AB loodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 53B) t Material (TF2) ow Dark Surface (TF12) lain in Remarks) s of hydrophytic vegetation and hydrology must be present. listurbed or problematic.
Anomalous Bright Loamy So	ls (F20) (MLR)	A 149A, 153C, 153	BD)
-		Hydric Soil Pres	sent? Yes No 🗶
_			
	Reduced Matrix, MS=Masked Sand RRs, unless otherwise noted.) — Polyvalue Below Surface (S8) (LRR Loarny Mucky Mineral (F1) (L Loarny Gleyed Matrix (F2) — Depleted Matrix (F3) — Redox Dark Surface (F6) — Depleted Dark Surface (F7) — Redox Depressions (F8) — Mari (F10) (LRR U) — Depleted Ochric (F11) (MLRU — Iron-Manganese Masses (F1.) — Umbric Surface (F13) (LRR E) — Delta Ochric (F17) (MLRA 15 — Reduced Vertic (F18) (MLRA 15 — Piedmont Floodplain Soils (F	Reduced Matrix, MS=Masked Sand Grains. RRs, unless otherwise noted.) — Polyvalue Below Surface (S8) (LRR S, T, U) — Loarny Mucky Mineral (F1) (LRR O) — Loarny Gleyed Matrix (F2) — Depleted Matrix (F3) — Redox Dark Surface (F6) — Depleted Dark Surface (F7) — Redox Depressions (F8) — Marl (F10) (LRR U) — Depleted Ochric (F11) (MLRA 151) — Iron-Manganese Masses (F12) (LRR O, P, Umbric Surface (F13) (LRR P, T, U) — Delta Ochric (F17) (MLRA 151) — Reduced Vertic (F18) (MLRA 150A, 150B) — Piedmont Floodplain Soils (F19) (MLRA 141)	Reduced Matrix, MS=Masked Sand Grains. RRs, unless otherwise noted.) Polyvalue Below Surface (S8) (LRR S, T, U) Loarny Mucky Mineral (F1) (LRR O) Loarny Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) Vetable Country Vetable Cou

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET - Atlantic and Guif Coastai Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

OMB Control #: 0710-xxxx, Exp: Pending Figuirement Control Symbol EXEMPT: (Authority: AN 335-15, paragraph 5-2a)

	ewables		State: KY S	ampling Point: WYS-33
ivestigator(s):CK SK		Section, Township, Range	: N/A N	
andform (hillside, terrace, etc.):	Lowland Lo	cal relief (concave, conver	c, none): Concave	Slope (%):\
ubregion (LRR or MLRA): LRR P	Lat: 37 621	452 Long	- 28,909 91	Datum: MADES (KYFIPS
oil Map Unit Name: V6			NWI classification	NA
re climatic / hydrologic conditions on	the site typical for this time of year	r? Yes X	No (If no, exp	lain in Remarks.)
re Vegetation X , Soil, o			Circumstances* present?	Yes X No
re Vegetation, Soil, o			explain any answers in Rema	irks.)
UMMARY OF FINDINGS -				
hydrophytic Vegetation Prosent?	Yes X No	is the Sampled Area	+ 1	
Hydric Soil Present?	Yes X. No	within a Watland?	Yes !	io
Vetland Hydrology Present?	Yes X No			
temarks,				
	wetland polin	+ for	- 01-W-	17
	* *		PEM	
YOROLOGY				
Nich Water Table (A2) Schuration (A3) Water Varks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (D4) Iron Deposits (B5) Inundation Visit Is on Arrial Image Water-Stained Leaves (B9)	l'resence of Reduce Recent Iron Reduction Thin Muck Surface (Contract (Explain in Ex-	lor (C1) secon Living Roots (C3) d iron (C1) on the Tilled Soils (C6) C7)	Mose rim Lines (B1 Dry-Season Water T Crayfish Burrows (Ci X Saturation Visible on X Geomorphic Position Shallow Aquitan. (D3 Phagnum Moss (U)	6) able (C2) 3) Aerial Imagery (C9) ([12) 3)
ield Observations: urface Water Present? Yes X	No Dooth (inche	and D		
Vater Tuble Present? Yes X	No Dagith (inche		-	
aturation Present? Yes X	No Depth (inche	- Commence	d Hydrology Present?	Yos X No
ncludes capillary fringe)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		The second second	
escribe Recorded Data (stream gauge	ge, monitoring well, serial photos	, previous inspections), if	available:	
emarks:				

EGETATION (Four Strata) - Use scientif	Absolute	Dominant	Indicator	Sampling Point 01-W 45-
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
2		_	_	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3.	=	\equiv	\equiv	Total Number of Dominant Species Across All Strata: 7 (B)
6.			_	Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A
7				Prevalence Index worksheet:
B/				Total % Cover of: Multiply by:
/		=Total Cover		OBL species x1= 17
50% of total cover:	20%	of total cover:		FACW species x2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x3 =
				FACU species x 4 =
				UPL species #5 775
	1 .			Column Fotels: (A)
	1 4			Prevalenc>Index = B/A =
				Hydrophytic Vegetation Indica ors:
			1	1 - Rapid Yest for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3,01
		Total Cover		X Problematic Hydrophytic Vegetation (Explain)
50% of total cover:	- ×120%	of total cover:		
erb Stratum (Plansize:	-	-		out to the second
i je ana ne	-6 m 144		Laborate II	"laticalcress bydric and support and byther systems
the A transfer		3 13		present, miles - disturbs it only mild another
			. 7	Leffette a. 61 . be 12 of Sade:
				Tree: Woody planis, to cluding vines, 3 in. (7.6 cm
				more in dismeter at breast height (DBH), regardless
				height.
				Sapling/Shrut - Woody (1451.15, es.cluding vines, te than 3 in. DBH and greater them 3.28 it (1 m) tall
	-			
				Herb'- All herbaceous (non-woudy) plants, regardi
				of size, and woody plants less than 3.28 ft tall
		Total Cover		Woody Ving- All woody vines greater than 3.28 ft
11 50% of total cover:	20%	of total cover:		height.
Out (Plot size: 5 ft)		1.00-11		
alycin max	25-	X	LPL	
Parkery Slabales	15	X	082	
	-			
	. 5			the second
-	50 =	Total Cover		Hydrophytic
50% of total cover: 75			410	Vegetation Present? Yes X No
The state of the s			340	
emarks: (If observed, list morphological adaptations	s below.)		0.15.00	
the transfer of the		* 49	ield his	aye has alternphed veg
· 100 YR Phose plain			mmun't	
, agriculture field a	suje	Ct	ALO HOME P	
0				
G FORM 6116-2-SG, JUL 2018				Atlantic and Gulf Coastal Plain - Vers

Type: C=Concentration Histosol (A1)	0n, D=Depiction, RM	Color (moist)	Features % Type¹ 15 C	Loc ²	Texture	Remarks
Type: C=Concentration lydric Soil Indicators Histosol (A1)	on, D=Depiction, RM	7.54% 46		MPC 5.	c	
Type: C=Concentration ydric Soll Indicators Histosol (A1)	on, D=Depiction, RM					
ype: C=Concentration ydric Soll Indicators Histosol (A1)	on, D=Deplotion, RM					
_Histosol (A1)	on, D=Depiction, RM					
_Histosol (A1)	on, D=Deplotion, RM					
_Histosol (A1)	on, D=Depiction, RM					
_Histosol (A1)	on, D=Deplotion, RM					
_Histosol (A1)	on, D=Depletion, RM					
_Histosol (A1)	on, D=Deplotion, RM					
_Histosol (A1)	on, D=Depletion, RM					
_Histosol (A1)	in, Debepiction, RM	-Deduced Mark Tra			2	200
_ mistosol (A1)	: (Anylinstia to all	I PPs unless other	S=Masked Sand	Grains.		re Lining, M=Matrix.
	(pproside to all		rface (S9) (LRH)	TIM		blrmatic Hydric Solis ² :
Histic Enipedon (A	2)		s 1 cm Muck (S1		1 cm Muck (A	25.549 J.M. S.J.
- Black Histic (A3)		(MLRA 153	The second secon	9	2 cm Milck (A	
Hydrogen Sulfide	(A4)		Mineral (F1) (LF	10.00	(outside int	
Stratified Layers-(/	A5)	- Loamy Gleyer		34.07	Reduced Verti	11-
Organic Bodies (A	6) (LKF.P, T, L)	X Depleted Mat				RA 150A, 150B)
	al (A7) (LER IS T, U	Redox Dark S	Surface (F6)		The second secon	dplain Soils (F19) (LRR P, T)
Muck Presance (A		A STATE OF THE PARTY OF THE PAR	k Surface (F7)			ight Floodplain Soils (F20)
_1 cm Muck (A9) (L		Redox Depres	ssions (F8)		(MLRA 1531	The state of the s
Depleted Below D.		Marl (F10) (11	id=11)		Red Parent Ma	iterial (F21)
thick Frank Surface	Charles and the control of the contr	Depleted Och	its (FT1) (MISS	1 11)	Very Shallow !	Onth Curidea (F22)
	ox (A16) (751		Le Mase: (1:12)	PINCH, I)		38, 15% in Fig. 169
The second secon	anul (S1) (S1)	A THE RESERVE OF THE PARTY OF T	ce (F17) (LTD: F)		and the second s	How From Main (177)
Sandy Gleyar Alai	No. (2.1) (8.1)		(F17) (M) RA 75.		(副二 1538	
Sancy Redox (55)		The state of the s	tic (F18) (MLRJ.		The state of the s	in Re, narks)
_ Stripped Matrix (S			odplain Soils (F1	1 1	4)	
Dark Surrace ("7)	The state of the s		right Floodplain S	oils (F20)	3700000	
Polyvalue delow S			/r, 15=C, 153D)		fic arosasibnic	ydrophytic vegetation and . "
(LXRS, T, U)	-		D. r., Surfar - (F2		wetland hyd	rolony must be present,
		-(MLRA 138	3, 152A la FL, 15	1)	unless distu	rbad or problematic.
estrictive Layer (if o						
Туре:		ock			26.5	
Depth (inches):	3			Hyd	Iric Soittresunt?	Yen X No
Remarks:				-		
		i-de				

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET - Atlantic and Guif Coestal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Song Soarrow Solar		City/County: Kevil/Ballard County	Sampling Date: 7-2 3-2
Applicant/Owner: Clearway Renewat	oles	Sta	ate: KY Sampling Point: 01- W
nvestigator(s): (K 5 K		Section, Township, Range: N/A	
Landform (hillside, terrace, etc.): 1 o	wine Loc	al relief (concave, convex, none):	Concaur Slope (%):
Subregion (LRR or MLRA): LRR P		147 Long: -88.40	7
Soil Map Unit Name: 116			IWI classification: WA
Are climatic / hydrologic conditions on the	site typical for this time of year	? Yes X No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hy	drology significantly dis	turbed? Are "Normal Circumstan	
Are Vegetation, Soil, or Hy	drology naturally proble	matic? (If needed, explain any a	
SUMMARY OF FINDINGS - Att			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No X Yes No X	Is the Sampled Area within a Wetland?	Yes Nc. X_
Remarks:			
	upline point	for OI-WET	-17
HYDROLOGY	_		
Priland W. Anlogy India toms		, Secondar	y Indicators (minimum of two required)
Panta in heart sa (minimum or cape to go	guired: ch. 3, all that "boly)		02501 L r-150 (156)
Train Tearing	Aquatic Forat (L-13)	Span	sch Ver Jated fint. An E-man, statt)
High Wale Table (A.)	Muri Deposi ₹ (C75) (~	acotta ms (Olu)
Saturation (A5)	Hydrogen Sulfide Odd		Trim Piser (016)
Water Mrt.s (B1)	The state of the s		Season Water Table (C2)
Sediment Deponits (R2)	Presence or Rovi loud	-	fish Burr-ws (CB)
Drift Deposits (R3)	Recent Iron Reduction Thin Muck Surface (C	The second secon	ration Visible on verial imagery (CII)
Algal Metur Crust (B4) Iron Deposits (B5)	Other (* xplain in Rem		nomhic Position (D2) ow Aquitau' (D3)
Inundation V. Sie en Aerial Imagary	THE RESERVE OF THE PARTY OF THE		ov Aquitau (ES)
Water-Stained Leaves-(B9)	(6.7)		gnum Moss (D8) (LRS 27, U)
Field Obnetvations:			
Surface Water Present? Yes	No X Depth (inche	ı):i	
Water Table Present? Yes	No X Depth (inche	s):	
Saturation Present? Yes	No X Deptil (inches	(): Metiand Hydrology	Presont? Yes No X
(includes capillary fringe)			
Describe Recorded Data (sircan gauge,	monitoring well, aerial photos,	previous inspections), if available:	
Remarks:			
			Atlantic and Gulf Coastal Plain - Versi

Sampling Point: 01-WHS-34 VEGETATION (Four Strata) - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: % Cover Species? Status Dominance Test worksheat: Number of Dominant Species 0 That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species 0 (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species =Total Cover 50% of total cover. x2= 20% of total cover. **FACW species** Sapling/Shrub Stratum (Plot size: **FAC species FACU** species 2. UPL species x5= Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 5 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is -50% 3 - Prevalence Index is ≤3.01 =Total Cover Problematic Hydrophytic Vegetation (Explain) 26% of total cover: 50% of total cover: Herb Stratum, (Pini size: In in which of bydee . if and well and bydrolony must be present, unless distribute or problematic. L'emissione d'avec r. a - Woody plants, soul ring vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height." Sapling Sharb - Woody plants, excluding vines, less than.3.in. PB52and great a thora 3.28 ft.(1.m) tall. ____. Hero , lif he baceouz (rem-woody) plants, regardless of size, and woody hap has than 3.28 ft tall. =Tutal Cover Woody Vine - All woody vinos greater thair 3.28 ft in height. 50% of total cover: \$ 20% of total cover: Woody Vine Stretum (Plot size: 5 alucine max Hydrophytic =Total Cover Vegetation No X 50% of total cover: 47.5 20% of total cover: 15 Present? Yes Remarks: (If observed, list morphological adaptations below.)

- obtil	Matrix		Redo	x Featu	res			bisance of indicators.)	
(inches)	Color (moist)	%	Color (moist)	-%	Type'	Loc2	Texture	Remarks	
0-6	1044513	90	7.54K4/L	10	-	<u>~</u>	5.6.		
				=	Ξ	Ξ			
'Type: C=0	Concentration, D=De	pletion, F	RM=Reduced Matrix,	MS⊯Mas	sked San	d Grains	² Location:	PL≃Pore Lining, M=Matrix.	
	Indicators: (Applic	cable to						for Problematic Hydric Solls	
Histoso	pipedon (A2)		Thin Dark S		120 4 1200			uck (A9) (LRR O)	
	fistic (A3)		Berrier Isla (MLRA 1			112)	-	uck (A10) (LRR S) rairie Redox (A16)	
	en Sulfide (A4)		Loamy Muc			180	-	ida MLrA 1:0A)	
	ed Layers (A.")	100	Loamy Gle		61 JAN 1972			ed Vertic (F18)	
	c Bodies (A6) (LRR	F. T. U)	Depleted N	NAME OF THE PARTY.				ide MLRA 1562, 150B)	
5 cm M	Mucky Mineral (A7) (A i.P. T	U) Redox Dar	k Surfac	e (F6)		Pictimo	At Floodplain Soils (F19) (LRF	
	resence (A8) (LRR		Depleted D	ark Surf	ace (F7)		Anoma	lous Bright Floodplain Soils (F	
	fuck (A9) (LRR P, T		Redox Dep		9.00			(A 153B)	
	ed Delow Dark Surfa	A second of the second	The state of the s	and the second			-	runt Maierial (F21)	
	Park Surface (A12)	-	Devleted C	and the second			and the second s	hollow Dark Surface (F.72)	
Sanc	Fring Rudox (A18), Mucy Mineral (81) Cleyed Matrix (S4)	the second second	Charles of the Control of the Contro	to ou (. d	3) (1 . 1	(a.t.s)	. T. Pent	A-MIJA1 To the Post TRADE TO CHOUSE MAKE (1 1 1656, 18.)	
M. Seel	Recox (So)		Reduc-0				Title of the second	Explain in Remarks)	
Personal Property Control of the Con	ed Metrix (SG)		Piedmont I	4 10 110				Espiration of Tropical Control	
	Surface (SY) (LRR P.	9, T, U)	Anomalous	13-1-17-5	- P	The second of	10 CO CO CO CO CO CO CO CO CO CO CO CO CO		
-	lue Bolow Surface (- (MLTA:	49A, 15	3C, 153E)	a Indica	thrs of hydrophytic vegetation	
	4s, r, 4)	-	Very Shall					and hydrology must be present	
(LIA		2	_(MLEA	130, 100	A In it;	154)	unle	ss disturbed or pro-lematic.	
(LI)	Ley # (F observed	g: · ·	A 147		199	•	100		
	The state of the s	Rouk						. 50-	
		1040					Hydric Poll Folk		
Ke trictive		6				100			
Ke arctive Type: Depth				-			200		
Ke trictive							2.00		
Ke arctive Type: Depth									
Ke arctive Type: Depth									
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Ke arctive Type: Depth				,					
Ke arctive Type: Depth				,					

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic, and Guif Coastal Plain Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

OMB Control 6: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Song Sparrow Solar		City/County: Kevil/Ballard County	Sampling Date: 2-23-2
Applicant/Owner: Clearway Rer	newables	State: KY	
Investigator(s):C\L_, 5	K	Section, Township, Range: N/A	
Landform (hillside, terrace, etc.):	1	cal relief (concave, convex, none): Concave	Slope (%):
Subregion (LRR or MLRA): LRR P			Datum: NADES (KYFIPS)
Soil Map Unit Name: Fa		NWI classifi	
Are climatic / hydrologic conditions of	on the site typical for this time of year		, explain in Remarks.)
Are Vegetation, Soil			
	or Hydrology naturally proble		All markets of the same of the
STATE OF FINDINGS -	Attach site map showing s	sampling point locations, transects,	important reatures, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wotland Hydrology Present?	Yes X No Yes X No	ls the Sampled Area within a 34etland? Yes Yes	
Rumarks:	wether	port for 01-w-18	
		PEM/ PFO	
HYDROLIGY			
Veget and Light logy to the form:		Seon inv Indicator	(minimum of pwy resujired)
X Subnec Water (Ar) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mai or Crust (B4) tron Deposits (B5) knundation Visible on Aerial Ima Water-Stained Leave—(B9)	Presence of Reduced type, at Iron Reduction This, Muck Surface (C other (Explain in Per	A Drumpe with the proof of C1) April 1 (C1) April 2 (C1) April 2 (C1) April 2 (C1) April 3 (C1) April 3 (C1) April 4 (C1) April 4 (C1) April 5 (C1) April 5 (C1) April 6 (C1) April 6 (C1) April 7 (C1)	r (B16) ler Table (C2) s (C8) e on A_rial Jinagery (C9) sition (D2)
Field Charvations:	1 was a state of	s): D	
Surface Water Present? Yes	No Depth (inches No Depth (inches	s):	Yes K No
Describe Recorded Data (stream ga	uge, monitoring well, aerial photos,	previous inspections), if available:	
Remarks:			-

Sampling Point: 0FWHS-35

Depth	Matrix		Redox	Featur	es	_		2 2 main
inches)	Color (moist)	%	Color (moist)	%	Type '	Loc2	Texture	Remarks
6-18	10 4K 5/2	10	754R416	A	<u>e</u>	<u>m</u>	5.0.	
		Ξ		Ξ	\equiv	\equiv		**
		_		=	_	_		
			M=Reduced Matrix, M			Grains.		ore Lining, M=Matrix.
Histosol Histic Ep Black His Hydroge Stratified Organic 5 cm Mu Muck Pn 1 cm Mu Depleted Thick Da Thick Da Thick Da Sandy (Sandy (Sandy (Stripped Dark Sur Polyvalue (LRF: S		(A11)	Depleted Dar Redox Depre Mari (F10) (* Depleted Cot from Mari (F10)	rface (Sis 1 cm 3B, 153) y Minerold Matrix (F3) Surface tk Surface tk Surface (F1) The (F1) (A) Cor (F12) (A) Cor (F13) Cor (F	(F2) (LRR Muck (SD) (H (F1) (LK (F2) (F6) (F6) (F6) (F8) (MLR (LK F2)	12) R. (C) R. (C) (1) (1) (1) (1) (2) (1) (2) (3) (3) (4) (5) (5) (6) (7) (7) (7) (8) (8) (8) (8) (8)	1 cm Muck (/ 2 cm Muck (/ Coast Prairie (outside M Reduced Ver (outside M Piedmont Flo Anomalous B (MLRA 153 Red Parent M Very Shallow (mry) Code (mry) Co	A10) (Li 3. 5) Redux (A16) LRA 130.5 tic (F18) LRA 150/, 1755 odplain Soilc (F19) (LRR P, a) right Floodplain Soils (F20) B) Material (F21) Dark unface (F22)
Type:	nches):	-:-					Hydric Soil Present?	Yes X No

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET - Atlantic and Guif Coastal Plain Region
See ERDC/EŁ TR-07-24; the proponent agency is CECW-CO-R

OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Song Sparrow Solar	City/County: Kevil/Ballard County Sampling Date: 2-23-7
pplicant/Owner: Clearway Renewables	State: KY Sampling Point: 01 - WP
vestigator(s): CK SK	Section, Township, Range: N/A
andform (hillside, terrace, etc.):	Local relief (concave, convex, none): 4-61 - Slope (%): 2
ubregion (LRR or MLRA): LRR P Lat: 3	37.020231 Long: 88-906269 Datum: Moss (KYFIP
oil Map Unit Name:	NWI classification:
re climatic / hydrologic conditions on the site typical for this	time of year? Yes V No (If no, explain in Remarks.)
열심하다 하는데 있다면 모든 목소에 되었습니다. 이 교육을 하면서 되었다면 하다 하는데 없다.	nificantly disturbed? Are "Normal Circumstances" present? Yes X No
re Vegetation, Soil, or Hydrologynatu	
OMMARY OF FINDINGS - Attach site map s	howing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	o > Is the Sampled Area
	o X within a Wetterd? Yes No X
Notland Hydrology Present? Yes N	· X
Remarks:	
140/1.	- 1 am 01-W-18
orp. are	point for 01-W-18
	5 01-11-19
	بالمستنان والمستنان والمست
High Water Table (A2) Man 1 epo	osits (B15) (LLAKT) — Drainage Patterns (310)
Saturation (A3) Hydran Water Morks (B1) Oxidized I Sedimant Deposits (B2) Presence Drift Deposits (B3) Recent in Algal Mat or Crust (P4) Thin Much Iron Deposits (B5) Other (Ex Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Drainage Patterns (310) Moss Trim Lines (B16) Privilide Coor (C1) Moss Trim Lines (B16) Dry-Souson Water Table (C2) Crayfish Burrover (CC) Submitted Notice (C7) Seconomial Position (L17) Shallow Aquitard (D3) FAC-Neutral Test (L55) Sphagnum Moss (U8) (LER 7, U)
Saturation (A3) Hydran Water Marks (B1) Oxidized I Sedimant Locesite (B2) Presence Drift Deposits (B3) Recent in Algal Mat or Crust (P4) Thin Much tron Deposits (B5) Other (Ex) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Moss Trim Lines (B16) Rhizcapheres on Living Roots (C3) of Reduced Iron (C4) of Reduced Iron (C4) of Reduced Iron (C4) of Reduced Iron (C6) of Reduced Iron (C6) in Reduction in Tilled Soils (C6) k Surface (C7) optain in Remarks) Moss Trim Lines (B16) Crayfish Burrover (C6) in Reduction in Tilled Soils (C6) in Reduction in Tilled Soils (C6) Substitution Visit is on Aerial Imagery (CC) Geomorphic Position (L17) Shallow Aquitard (D3) FAC-Neutral Test (L5) Sphagnum Moss (U8) (LER 7, U)
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Water Marks (B1) Sedimant Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (P4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Vas No X Describe Recorded Data (stream gauge, monitoring well, ae	Moss Trim Lines (B16) Phizospheres on Living Roots (C3) Prior Reduced Iron (C4) Prior Reduced Iron (C4) Prior Reduced Iron (C4) Prior Reduction in Tilled Soils (C6) Resultion Visit Iron (C0) Prior Reduction in Tilled Soils (C6) Resultion Visit Iron (C0) Reduction in Tilled Soils (C6) Reduced Iron (C2) Reduction in Tilled Soils (C6) Resultion Lines (B16) Rhizosphores on Living Roots (C2) Crayfish Burrove (C6) Reduced Iron (C4) Rhizosphores on Living Roots (C6) Rhizosphores (C6) Rhizosphores on Living Roots (C6) Rhizosphores (C6) Rhizosphores (C6) Reduced Iron (C4) Rhizosphores (C6) Rhizosphores (C6) Rhizosphores (C6) Rhizosphores (C6) Rhizosphores (C6) Reduced Iron (C6) Rhizosphores (C6) Rhi
Saturation (A3) Hydran Water Marks (B1) Oxidized I Sortime It Detectits (B2) Presence Drift Deposits (B3) Recent In Internal Deposits (B5) Thin Much Iron Deposits (B5) Other (Ex Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Describe Present? Yes No Describe Present? Yes No Describe Recorded Data (stream gauge, monitoring well, ae	Moss Trim Lines (B16) Phizospheres on Living Roots (C3) Prior Reduced Iron (C4) Prior Reduced Iron (C4) Prior Reduced Iron (C4) Prior Reduction in Tilled Soils (C6) Resultion Visit Iron (C0) Prior Reduction in Tilled Soils (C6) Resultion Visit Iron (C0) Reduction in Tilled Soils (C6) Reduced Iron (C2) Reduction in Tilled Soils (C6) Resultion Lines (B16) Rhizosphores on Living Roots (C2) Crayfish Burrove (C6) Reduced Iron (C4) Rhizosphores on Living Roots (C6) Rhizosphores (C6) Rhizosphores on Living Roots (C6) Rhizosphores (C6) Rhizosphores (C6) Reduced Iron (C4) Rhizosphores (C6) Rhizosphores (C6) Rhizosphores (C6) Rhizosphores (C6) Rhizosphores (C6) Reduced Iron (C6) Rhizosphores (C6) Rhi
Water Marks (B1) Sedimant Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (P4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Vas No X Describe Recorded Data (stream gauge, monitoring well, ae	Moss Trim Lines (B16) Phizospheres on Living Roots (C3) Prior Reduced Iron (C4) Prior Reduced Iron (C4) Prior Reduced Iron (C4) Prior Reduction in Tilled Soils (C6) Resultion Visit Iron (C0) Prior Reduction in Tilled Soils (C6) Resultion Visit Iron (C0) Reduction in Tilled Soils (C6) Reduced Iron (C2) Reduction in Tilled Soils (C6) Resultion Lines (B16) Rhizosphores on Living Roots (C2) Crayfish Burrove (C6) Reduced Iron (C4) Rhizosphores on Living Roots (C6) Rhizosphores (C6) Rhizosphores on Living Roots (C6) Rhizosphores (C6) Rhizosphores (C6) Reduced Iron (C4) Rhizosphores (C6) Rhizosphores (C6) Rhizosphores (C6) Rhizosphores (C6) Rhizosphores (C6) Reduced Iron (C6) Rhizosphores (C6) Rhi

(Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:
Platanus ?	15	X	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
Tarama,		=	=	Total Number of Dominant Species Across All Strata: 3 (B)
	==	=	=	Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A
	==	=		Prevalence Index worksheet:
	15 =	Total Cover		OBL species x 1 =
U 50% of total cover.		of total cover:		FACW species x 2 =
Herb 50% of total cover. Stratum (Plot size: 5 F4) .		-	FAC species x3=
Cordinine hirents	- 40	V	FACY	FACU species x 4 =
Copicera inpenies.	15	×	FACU	UPL species x5=
- Andrep yen vicquie	5		FAC	Column Totals: (A)
- Constitution				Prevalence Index = B/A =
		-	_	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Tast is >50%
				3 - Prevalence Index is ≤3.01
	60	Total Cover		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover.		of total cover	12	
erh Strates (Plot size:		in total coron		1 -
			Appearance of	Indicators of factic soil and wetland hydrology must promong unless disturbed or problematic.
				Uestritions of Four Veget that Str. ta:
				iree - Woody plants, excluding viries, 3 in. (7.6 cm more in di-mot 1 at breast height (UBH), regardles height.
	/			
- · · · · /-				than 3 in. 1. H and greater than 3.28 ft.(1 m) tall.
				Herb - All herbaceous (non-woody) plants, regardi
		-	w	of size, and woody plants less than 3.28 ft tall.
	-	Total Cover		Wood: Vine - All woody vines greater than 3.28 ft
50% of total cover:	20%	of total cover		height.
oody Vine Stratum (Plot size:)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
GOOT THIS SECTION (
	/			
		_	-	
		Total Cover	_	Hydrophytic
		of total cover		Vegetation Present? Yes No
50% of total cover:				

IICZ Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color (moist) Texture Loc Remarks 0-18 044 5/L 100 S.C. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS: Wasked Sand Grains ²Location: PL=Pore Lining, M=Matrix. l'ydric Soil Indicators: (Applicable to all LFRs, unless otherwise noted.) Indicators for Proplematic Hydric Soils3: Histosol (A1) Thin Dark Surface (S9) (LRR 5, T, U) 1 cm Muck (A9) (LRR O) Histic Epipedon (A2) 2 cm Muck (A10) (LRR S) Barrier Islands 1 cm Muck (S12) Black Histic (A3) (MLRA 153F), 153D) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) (outside-MLRA 154A) Loarny Mucky Mineral (F1) (LRFO) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Organic Bodies (A6) (* P.R P. T. U) -Depleted Matrix (F3) _ (outcide MLRA 150A, 150B) 5 cm Mucky Mineral (A7) (LRF: P, T, U) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR F. T) Muck Presence (A8) (LRF: U) Anomalous Eright Floodplain Soils (F20) Depleted Dark Surface (F7) 1 cm Muck (A9) (I RR P, T) Redox Depressions (F8) (MLRA 1537) Depleted Below Dark Surface (A11) Marl (F10) (LRR U) Rod Parent Material (F21) Thick Park Surface (1.12) D. ploted Ochric (F11) (MLPA 151) . Very Shallow Dark Sunta (F22) Coast Prairie Index (Air) (NA AAA16775) iron-Man an Alarma (F12) (1" . th, 157)-(out beatle 12 15", 224 in FL, 184) Sand Mucky Miner H(s1) (L-1) (1) Canada Surf. or (F13) (15% F, 7, 77 . . Farrier stores I ow L. Jones Matri: (197) Delta Ochric (F1/) (MLRA (1) Sandy Gleyed Matrix (\$4) (MLRU: 153E, 1-31) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150F) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (SF) Dark Surface (S7) (LRR: , S, Y, U) Anomalous Bright Floodplain Soils (F20) Folyvalu- Helow Surface (S6) (MLFJ:149A, 153C, 153D) Indicators of hydrophytic vagetation and Very Shall Dark Surface (F22) (LRR S, 7, U) wetland hydrology must be present, RA 138, 157 in FL, 154) unless disturbed or problematic. Restrictive Layer (if observed):

Type:

Remarks:

Depth (inches):

Hydric Soil Present?

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET - Atlantic and Guif Coastal Plain Region See ERUC/EL TR-07-24; the proponent agency is CECW-CO-R OMB Control #: 0710 xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Song Sparrow Solar	City	County: Kevil/Ballard C	ounty Sa	mpling Date: 7-73-7
Applicant/Owner: Clearway Renewables			State: KY Sa	mpling Point: 0 + Whs
Investigator(s): CK 5K	Section.	Township, Range: N/A		
Landform (hillside, terrace, etc.):		(concave, convex, none	- 3.3-3.5	Slope (%): Z
Subregion (LRR or MLRA): LRR P	Lat: 37.014401		1.900401	Datum: NADES (KYFIPS)
Soil Map Unit Name: Ca32		Long.	NWI classification:	
	To Value of the Control of the Contr		- Julian Chines, 1-1-17	ain in Remarks.)
Are climatic / hydrologic conditions on the site ty				
Are Vegetation, Soil, or Hydrolog		Are "Normal Circum		Yes X No
Are Vegetation, Soil, or Hydrolog SUMMARY OF FINDINGS - Attach s			any answers in Remar s, transects, impe	
Hydrophytic Vegetation Present?	es X No. Is the	e Sampled Area		
District the second	Approximate to the second	in a Wetland?	Yes X :X	
Wetland Hydrology Present? Y	es X No			
Remarks:				
	wend ro	-x for	01-645-	15
Ada.			PFO	
HYDRULOGY			. ———	
and Patrology Indicators:		• • Eng	ond a classicar (min	innan workshiedt
a dresey indicatory to minums of one in a wired			Buffer to A.C. ike C	
Surface Wildow (11)	Autobio Francis (1-15)		747	ince ve Sufface (u8)
X High Web r This (A2)	Kvar Ecousies (C15) (LxxXVII)		Drainago Patiene (Hi	
✓ Ceturation (A3)	Hydroge .: Sulfide Odur (C*)		Moss Trim Lines (L16	A William Street, Talk Street,
Water Marks (B1)	Oxidized Rhizuspheres on-Livi		Dry-Season Water Ta Crayfish Burrows (C2)	AND THE PROPERTY OF THE PARTY O
Sediment It profits (B2)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tillus	The state of the s	Saturation Visible on	And the second s
Drift Deposits (B3) Algal Met or Crist (B4)	Thin Muck Surface (C7)	E CONTRACTOR OF THE PROPERTY O	Geomorphic Position	
Iron Deposits (R5)	Other (L. plain in Remarks)		Shallow Aquitard (D3)	
- Inundation Visible on Aerial Imagery (B7)		-	FAC-Noutral Test (D5	
Water-Steined Leaves (B9)		·	Sphagnum Moss (D8)	(LRRY, U)
Field Observations:				
Strface Water Present? Yes X N	o Depth (inches); O	or the		
Water Table Present? Yes X N		5.		
Saturation Present? Yes X N		Wintland Hydro	ology Fresent?	You X No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous	inspections), if available	e:	
Remarks:				
remarks.				
,				
				YI.

ree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Betula nigra	15	*	FIKE	Number of Dominant Species		
Arey rubyum	5	×	FAL	That Are OBL, FACW, or FAC:	4	_(A)
		=		Total Number of Dominant Species Across All Strata:	4	_(B)
	-	_		Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A
				Prevalence Index worksheet:		
				Total % Cover of:	Multiply by:	
	70	=Total Cover		OBL species x	1=	
50% of total cover:		of total cover	5	FACW species x	2 =	
pling/Shrub Stratum (Plot size:) C	1				3 =	
Caphalanthus occidentels	30	X	OBL	FACU species x	4 =	
Copied Right Control	- 30				5=	9
	-			Column Totals: (A)		_
			-	Prevalence Index = R/A =		
	-	_		Hydrophytic Vegetation Indicat	~	=
				1 - Rapid Test for Hydrophyti		
		-		2 - Dominance Test is >50%	o regulation	4
×_/	-			3 - Prevalence Index is ≤3.01		
		-			atation (/Evol	Inini
		=Tutal Cover	2.5	Problematic Hydrophytic Veg	eranou (exp	anny
50% of total cover:	5 - 20%	of total cover:	_6	-		
b Stratum (Plot size:			-	* * * * * * * * * * * * * * * * * * * *	100	
			=-	Definitions of the Veget And Veget A	rives, 3 in. (7.	
				Sapling/shrut - Woody pt. no. than 3 in_DBL and grast itian :		
				Hertr - All herbaceous (non-wood of size, and woody piznits less the		
	-	Total Cover	*	Woody Vine - All woody vines go height.	reater than 3.	28 ft
Vine Stratum (Plot size: 5)						
Packery globella	10		OGL			
			$\overline{}$			
				Hydrophytic		
	10 =	Total Cover		Vegetation		
	10 =					
50% of total cover:		of total cover:	_ Z	Present? Yes X	No	

ampling Point: 01-W145-3

pth ches)	Matrix		Redo	x Featur	es		onfirm the absence		
	Color (moist)	-%	Color (moist)	-%	Type	Loc	Texture	_	Remarks
-18	16415/2	85	7.5424/6	15	<u>c</u>		5.C.	_	
		_		_	=	=			
		_			Ξ	Ξ			,
dric boil !	ncentration, D=Deple ndicators: (Applical	tion, R	#=Reduced Matrix, I	AS=Mas	ked Sand	Grains.			Lining, N=Matrix. elematic Hydric Soils ³ :
Histosol Histic Ep Black Hit Hydroger Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Com, Pr Sendy M Sandy R Stripped Dark Sur	(A1) ipedon (A2) stic (A3) in Sulfide (A4) Layers (A5) Bodies (A6) (LRR P, cky Mineral (A7) (LRR U) ck (A9) (LRR P, T) i Below Dark Surface irk Surface (A12) airin Narlo (A12)	T, U) R P, T, U (A11)	Loamy Muci Loamy Gley Depleted Mark Depleted Dark Depleted Dark Depleted Dark Depleted Dark Depleted Dark Depleted On Redox Depr	urface (\$ ds 1 cm SB, 153 ky Miner Surface Surface Irk Surface	Muck (S Muck (S D) al (F1) (L x (F2) (F6) ice (F7) (F8) 1) (MLK (F1) Soils (F1) Soils (F1) Sourface (I	12) RR O) (.16^) (.16	2 cm M Coasi (outs Reduc (outs Piedme Anoma (MLE Red Pa Vory S 0, P, T) (Nuz 1 arri (Nuz 50B) Other (1	Nuck (A1) Prairie R side MLF ed Vertic side MLF ont Flood slous Brig RA 153B) arent Mal rallow 1 2 153B, (Explain i	(A 150A, 150B) Iplain Solls (F19) (LRR P, Int Floodplain Soils (F20)
strictive I	ayer (if observed):	7					_	-	
Type: Depth (in	/_	•					Hydric Soil Pres	Ant?	Yes X No
marks:							4-10:		
***			* 46						

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Sampling Point: O1-W 145-3: Oncolor Slope (%): Z 745 Datum: NAD 83 lassification: in in Remarks.) noes present? Yes X No answers in Remarks.) sects, important features, etc. X No
Datum: NAD 83 assification: in in Remarks.) nces* present? Yes X No answers in Remarks.) sects, important features, etc.
Datum: NAD 83 assification: in in Remarks.) nces* present? Yes X No answers in Remarks.) sects, important features, etc.
Datum: NAD 83 assification: in in Remarks.) nces* present? Yes X No answers in Remarks.) sects, important features, etc.
in in Remarks.) in in Remarks.) inces* present? Yes X No answers in Remarks.) sects, important features, etc.
in in Remarks.) nces* present? YesX No answers in Remarks.) sects, important features, etc
nces" present? YesX No answers in Remarks.) sects, important features, etc
enswers in Remarks.) sects, important features, etc
sects, important features, etc
X No
.0
0
.0
Indicators (minimum of two required)
e Soil Cracks (B6)
ly Vegetated Concave Surface (B8)
ge Patterns (810)
rim Lines (B16)
ason Water Table (C2)
th Burrows (C8) tion Visible on Aerial Imagery (C9)
orphic Position (D2)
w Aquitard (D3)
eutral Test (D5)
num moss (D8) (LRR T, U)
Present? Yes X No
e a T e s a K N V

1	20% of	= Total Cover	ver	OBL species x 1	-	
2	20% of	= Total Cover	er er	Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species	Multiply by:	_ (A/B
5	20% of	= Total Cover	er er	That Are OBL, FACW, or FAC: Prevalence Index worksheet:	Multiply by:	
50% of total cover Sapling/Shrub Stratum (Plot size:) 1 2 3 4 5 7	20% of	total cover		Total % Cover of: OBL species x 1 FACW species x 2 FAC species x 3 FACU species x 4 UPL species x 5	•	
50% of total cover Sapling/Shrub Stratum (Plot size:) 3 5 5 7	20% of	total cover		Total % Cover of: OBL species x 1 FACW species x 2 FAC species x 3 FACU species x 4 UPL species x 5	•	
50% of total cover:	20% of	total cover		OBL species x 1 FACW species x 2 FAC species x 3 FACU species x 4 UPL species x 5	•	
50% of total cover: Sapling/Shrub Stratum (Plot size:) 2 3 5 5	20% of	total cover		FACW species x 2 FAC species x 3 FACU species x 4 UPL species x 5	-	
Sapling/Shrub Stratum (Plot size:)	_			FAC species x3 FACU species x4 UPL species x5	-	
Sapling/Shrub Stratum (Plot size:)	_		=	FACU species x 4 UPL species x 5	*	_
			=	UPL species x 5		
			_			
				Column Totals		_ ,-
				Prevalence Index = B/A = _		_
				Hydrophytic Vegetation Indicate		
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mondation	
				1 - Rapid Test for Hydrophydd 2 - Dominance Test is >50%	1	
				3 - Prevalence Index is ≤3.0 [†]		
		= Total Co	ver	_ Problematic Hydrophytic Veg	etation' (Expl	ain)
50% of total cover:		A			track series	
Herb Stratum (Plot size: 5 Pt)	2070 0	10101 00101		Indicators of hydric soil and wetla	nd hydrology	must
Tungus efficies	20	*	FACES	be present, unless disturbed or pro	oblematic.	
Junes Charis	16	*	OBL	Definitions of Four Vegetation S		
Typha 141. Valid	20		FIX			6 cm)
William Barber Assertan	h		FACH	Tree - Woody plants, excluding vi more in diameter at breast height	(DBH), regar	dless o
Letwish tighting	-	_	TALL	height.		
5				Sapling/Shrub - Woody plants, e	veluding vine	s lass
5				than 3 in. DBH and greater than 3	.28 ft (1 m) ta	ılı.
1,	_	_	$\overline{}$			
	_	_	_	Herb - All herbaceous (non-wood of size, and woody plants less that	n 3.28 ft tall.	arules
)	_		_			
10	_	-	_	Woody vine - All woody vines gr	eater than 3,2	28 ft in
11	_	_	_	height.		
12	-	V	_			
		= Total Co				
50% of total cover: 475	20% of	f total cove	:_11			
Woody Vine Stratum (Plot size:)						
1			_			
2						
				Hydrophytic		
5		= Total Co	ver	Vegetation Present? Yes X	No	
50% of total cover:	20% 0	f total cove		Present? Yes X		-
Remarks: (If observed, list morphological adaptations below).						

rofile Description: (Describe to Depth Matrix			x Feature	3					
inches) Color (moist)		Color (maist)	_%_	Type	Loc	Texture	_	Remark	3
2-18 104× 2/2	70 1	7512 4/U	10	_(11	SC			
104K do	76						-		
			-	_	_	_			
			_		_	_			
			-						
				_					
The section of the se		0.00000000		- T. 172		2	Di -Desa I	Inine Make	atria
Type: C=Concentration, D=Deple					ains.	Location:	for Proble	ining, M=Ma matic Hydri	c Soils3:
lydric Soil Indicators: (Applicat	bie to all LR			The Contract of the Contract o	nn c = 10		uck (A9) (I		
_ Histosol (A1)		_ Polyvalue Be					uck (A10)	E 35 Land 1911	
Histic Epipedon (A2) Black Histic (A3)	-	Thin Dark Su Loamy Muck				Reduce	d Vertic (F	18) (outsid	e MLRA 150A,
_ Hydrogen Sulfide (A4)		Loamy Gleye	A CONTRACTOR OF THE PERSON OF	F	.01	Piedmo	nt Floodpl	ain Soils (F1	9) (LRR P, S, T
Stratified Layers (A5)		★ Depleted Ma		-,				Loamy Soil	
Organic Bodies (A6) (LRR P.	T. UI	Redox Dark	and the second of	6)		(MLR	A 153B)		
5 cm Mucky Mineral (A7) (LRI		Depleted Da	rk Surface	(F7)		Red Pa	rent Mater	ial (TF2)	
Muck Presence (A8) (LRR U)		_ Redox Depre	essions (F	8)				k Surface (T	F12)
_ 1 cm Muck (A9) (LRR P, T)	Ton 9	Marl (F10) (L				Other (I	Explain in I	Remarks)	
 Depleted Below Dark Surface 	(A11)	_ Depleted Oc						tombi di tra	estation and
_ Thick Dark Surface (A12)	drum 3	Iron-Mangan		The second			the bright to the first	drophytic ver ogy must be	
Coast Prairie Redox (A16) (M	the state of the state of the state of	Umbric Surfa			, u)			ed or problem	
	RR O. S)	Delta Ochric	(F17) (MI	ICA 151)		MI NE	20 marmine	a or propier	mau.
Sandy Mucky Mineral (S1) (LI	- N-1				OA 150R)				
Sandy Gleyed Matrix (S4)		Reduced Ve	rtic (F18)	MLRA 15		S.			
Sandy Gleyed Matrix (S4) Sandy Redox (S5)		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	A)			
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	S.			
Sandy Gleyed Matrix (S4) Sandy Redox (S5)		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	A)			
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	A)			
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type:		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	A)	153D)	Yes_+	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	_ No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type:		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	_ No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	_ No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_*	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes *	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes +	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes *	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	_ No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes +	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes 🗡	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_*	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	No
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, Restrictive Layer (if observed): Type: Depth (inches):		Reduced Ve	rtic (F18) (nodplain S	MLRA 15 oils (F19)	(MLRA 149	9A) A 149A, 153C,	153D)	Yes_+	No

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

roject/Site: Song Sparrow Sola	ir .	City/County: Paducah/Ballar	rd	Sampling Date: 2-24-73
pplicant/Owner: Clearway			State: KY	A1
the second secon	K	Section, Township, Range:	N/A	
andform (hillslope, terrace, etc.	1 Ististages	Local relief (concave, convex	, none):0 6 %	
Soil Map Unit Name:			NWI classific	cation:
Are climatic / hydrologic conditio	ns on the site typical for this time of y	ear? Yes _ No	(If no, explain in F	
Are Vegetation, Soil	, or Hydrology significantly	disturbed? Are "Norm	al Circumstances"	present? Yes X No
Are Vegetation, Soil	, or Hydrology naturally pr	oblematic? (If needed.	explain any answe	ers in Remarks.)
	S - Attach site map showing	g sampling point locat	ions, transects	, important features, etc.
Hydrophytic Vegetation Preser Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes No X Yes No X	Is the Sampled Area within a Wetland?	Yes	No_X
	uplend point	for 01-w	70	
HYDROLOGY			Charles and	ators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aer Water-Stained Leaves (B	of one is required; check all that apply Aquatic Fauna (B: Aquatic Fauna (B: Marl Deposits (B1 Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in I	13) 5) (LRR U) Odor (C1) heres along Living Roots (C3) iced fron (C4) ction in Tilled Soils (C6) e (C7)	Surface Soil Sparsely Veg Drainage Pa Moss Trim Li Dry-Season Crayfish Burn Saturation Vi Geomorphic Shallow Aqui	Cracks (B6) getated Concave Surface (B8) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Position (D2) itard (D3)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Depth (inche Yes No Depth (inche	s): Wetland	Hydrology Presen	nt? Yes No*
Describe Recorded Data (stre	am gauge, monitoring well, aerial pho	tos, previous inspections), if av	ailable:	
Remarks:				

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

50% of total cover:

50% of total cover: ___

5

= Total Cover

= Total Cover 20% of total cover:

15

30

35 = Total Cover

= Total Cover

20% of total cover:

10

50% of total cover: 47 5 20% of total cover: 17

FA

UFL

WPL

FAL

20% of total cover.

Tree Stratum (Plot size:_____)

Sapling/Shrub Stratum (Plot size: _

Herb Stratum (Plot size: 5F+

Glycon mas

5. Kunger 1415066

11.__

Andropola virginius

Rubus avvenus

Limine phypersies

Sampling Point: 01-WAS-3 Dominance Test worksheet: Absolute Dominant Indicator % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant (B) Species Across All Strata: Percent of Dominant Species 50 (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = ____ FAC species _____ x 3 = _____ FACU species x 4 = ____ UPL species _____ x 5 = ____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% __ 3 - Prevalence Index is \$3.01 Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present?

Remarks: (If observed, list morphological adaptations below).

50% of total cover: ___

Woody Vine Stratum (Plot size: _____)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Tocation: PL=Pore Lining, M=Matrix.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histo Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Sem Murky Mineral (A2) Redox Dark Surface (F6) Red Variance (F6) Red Variance (F6) Red Variance (F6) (MLRA 153B) Red Parent Material (TF2)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Reduced Matrix (F2) Depleted Matrix (F3) Reduced Vertic (F18) (outside MLRA 150A, Pledmont Floodplain Soils (F19) (LRR P, S, T, U) Reduced Vertic (F18) (outside MLRA 150A, Pledmont Floodplain Soils (F19) (LRR P, S, T, U) Matrix (F2) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2)
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Mari (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Junicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Neduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Son I Special Bolar Sampling Date 2-30-23 Ballard Project/Site: _ Sampling Point 03-LVh Merny Applicant/Owner: Section, Township, Range: Investigator(s) Landform (hillslope, terrace, etc.). Slope (%) Local relief (concave, convex, none): Cabacaux Datum: NHD331 37. 076944 Long: 88 923484 LRRP Subregion (LRR or MLRA) NWI classification. Soil Map Unit Name: (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ Are "Normal Circumstances" present? Yes Soil _, or Hydrology ___ significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation _____, Soil ___, or Hydrology _____ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: wetlend point for HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) __ Aquatic Fauna (B13) X Drainage Patterns (B10) High Water Table (A2) Marl Deposits (815) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Moas Trim Lines (B16) Dry-Season Water Table (C2) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Crayfish Burrows (C8) Presence of Reduced Iron (C4) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Recent Iron Reduction in Titled Soils (C6) Thin Muck Surface (C7) Geomorphic Position (D2) Algal Mat or Crust (84) Shallow Aquitard (D3) Other (Explain in Remarks) fron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (87) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (89) Field Observations: No L Depth (inches): Surface Water Present? No Depth (inches): Water Table Present? Saturation Present? Depth (inches): Wetland Hydrology Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

50% of total cover:	-	otal cover:		1111111 - 122 123	***	
				FIRSTING 193		
	=	Total Cove		Vegetation Present? Yes X	No	
				Hydrophytic		
		_	_			
oody Vine Stratum (Plot size:)						
50% of total cover: 5	_ 20% of 1	otal cover:	2			
	10 =	Total Cov	er			
				install time and moved times, in	- Juliania in It	
				Woody vine - All woody vines, n	egardless of h	eight
				3 ft (1 m) in height.	ar. opproxim	
				herbaceous vines, regardless of plants, except woody vines, less		
				Herb - All herbaceous (non-wood		
				approximately 3 to 20 ft (1 to 6 m) in height.	
				Shrub - Woody plants, excluding	woody vines.	0
CERTE VINIPARES				than 3 in. (7.6 cm) DBH.		
Creax vulginadis	5	×	FACW	approximately 20 ft (6 m) or more	in height and	less
Shilver much	5	+	They	Sapling - Woody plants, excluding	ng woody vine	15.
b Stretum (Plot size:)	= 2.00			(7.6 cm) or larger in diameter at b	creast height (DBH
50% of total cover:		4,000		approximately 20 ft (6 m) or more	in height and	3 in.
		Total Cov	er	Tree - Woody plants, excluding y		
				Definitions of Five Vegetation	C. C. L. St. L. L. L. St. L.	
	_			be present, unless disturbed or p	roblematic.	- Letterd
				Indicators of hydric soil and wetl	and hudrolom	must
				Problematic Hydrophytic Ver	getation (Exp	aut)
	-		_	3 - Prevalence Index is ≤3.0		lain!
nrub Stratum (Plot size:)				¥ 2 - Dominance Test is >50%		
50% of total cover: 17	5_ 20% of	total cover	-	1 - Rapid Test for Hydrophyt		
Linear Law 124		= Total Cov		Hydrophytic Vegetation Indica		
	70	S. 152	_	Prevalence Index = B/A =		_
E			_			
	_			Column Totals: (A		
		_		UPL species x		
Calles leavegate	15		FALL	FACU species x	4=	
Ulmuz americana	10	_ X	FACE	FAC species X		
noling Stratum (Plot size: 15)				FACW species x		
50% of total cover: 35	20% of	total cover	14	OBL species x		
and the same of th		= Total Co		Total % Cover of:	Multiply by	
	_			Prevalence Index worksheet:		_
			_	That Are OBL, FACW, or FAC:	100	_ (A
	_			Percent of Dominant Species	7000	
	10		FACW	Species Across All Strata:	6	_ (B
Acer regunto	30	X	FAC	Total Number of Dominant	4	
Communa Americana	30	V	FACE	Number of Dominant Species That Are OBL, FACW, or FAC:	5	11
rea Cheline (Did else: 70)	% Cover	Species?	Status	the twent new treatment of	12.1	

× 1	
\sim	

Sampling Point: 03-WKS-21

Depth Matrix	100		Features			the absence of I	
(inches) Color (moist)		(moist)	%	Type'	Loc'	Texture	Remarks
0-12 104/2 5/2	85 5YM	414	5	<u>c</u>	<u></u>		
				_	_		
				_	-		
					-3		
Type: C=Concentration, D=Depte	etion. RM=Reduce	d Matrix MS=	Masked	Sand Gra	ins	Location: PL:	Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applica	ble to all LRRs, u	nless otherw	se note	d.)			Problematic Hydric Soils ³ :
_ Histosol (A1)	P	olyvalue Belo	w Surface	e (S8) (L	RR S, T, U)		(A9) (LRR O)
Histic Epipedon (A2)		hin Dark Surfa					(A10) (LRR S)
Black Histic (A3) Hydrogen Sulfide (A4)		oamy Mucky			0)		fertic (F18) (outside MLRA 150A, B Floodplain Soils (F19) (LRR P. S. T.
Stratified Layers (A5)	-	oamy Gleyed epleted Matri:		21			Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P,		edox Dark Su		3)		(MLRA 1	to the second se
_ 5 cm Mucky Mineral (A7) (LRI		epleted Dark	1000				Material (TF2)
Muck Presence (A8) (LRR U)		edox Depress	Control Mr. of)			ow Dark Surface (TF12)
_ 1 cm Muck (A9) (LRR P, T) _ Depleted Below Dark Surface		epleted Ochri		MI PA 15	41	Other (Exp	lain in Remarks)
_ Thick Dark Surface (A12)	The second secon	on-Manganes) Indicators	of hydrophytic vegetation and
Coast Prairie Redox (A16) (M	and the second second	mbric Surface				welland	hydrology must be present
Sandy Mucky Mineral (S1) (LF	CONTRACTOR OF THE PARTY OF THE	elta Ochric (F	100.00	TO SECURE A SECURE	a tala	unless d	listurbed or problematic.
Sandy Gleyed Matrix (S4) Sandy Redox (S5)		educed Vertic ledmont Floor		A 140 - C - A		AL	
Stripped Matrix (S6)			A. C. L.	V 4 - V 4		149A, 153C, 153	(D)
Dark Surface (S7) (LRR P, S,				3.000	- No-04		
testrictive Layer (if observed):							
Type: Rusts							4
Depth (inches): 12						Hydric Soil Pres	sent? Yes X No
emarks:							

Are climatic / hydrologic cond Are Vegetation Soil _	erc) hillslap Loc	Yes No Long	State: ISY Sampling Point: 03-WHS- NH none): Concour Slope (%): Z -46.923634 Datum MAD NWI classification: MI (If no, explain in Remarks.) al Circumstances' present? Yesy No explain any answers in Remarks.)
SUMMARY OF FINDIN Hydrophytic Vegetation Pres Hydric Soil Present? Wetland Hydrology Present Remarks:	yes No X	is the Sampled Area within a Wetland?	Yes No X
HYDROLOGY	upian pine	For 0 =	
Wetland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Active Mater-Stained Leaves (Field Observations:	Aquatic Fauna (B13) Aquatic Fauna (B13) Marl Deposits (B15) (Li Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced in Recent Iron Reduction Thin Muck Surface (C7 Other (Explain in Remains)	(C1) along Living Roots (C3) ron (C4) in Tilled Soils (C6))	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes No Depth (inches):		Hydrology Present? Yes No
Remarks:			

The second secon	Absolute		Indicator	Dominance Test worksheet:
Iree Stratum (Plot size: 2 *)		Species	Status	I Hulling of Community Openies
1 - Jahren apresente	15	X		That Are OBL, FACW, or FAC (A)
2 Acer rubrum	25	¥	FAC	
3. Querras alba	70	×	FACU	Total Number of Dominant Species Across All Strats: (B)
	10	_		Species Across All Strata.
4. Cellis occidentitis	70		FACU	Percent of Dominant Species 44
5		_	_	That Are OBL, FACW, or FAC: (A
6				E-1
	70	= Total Co	Ver	Prevalence Index worksheet:
50% of total cover: 3 T				Total % Cover of: Multiply by:
	20% 0	total cover		OBL species x 1 =
Sapling Stratum (Plot size: 1+5)		v	A 777	FACW species x 2 =
1 Ulmus American	10		FACW	4.3-11.20/41/07
1. Ulmus Americana 2. Actr rubrain	16	X	FAC	FAC species x 3 =
			-	FACU species x 4 =
	_	-	_	UPL species x5 =
-	$\overline{}$	_	_	Column Totals: (A)(E
				Coulin Island
				Prevalence Index = B/A =
	70	Total Co	ent.	
50% of total cover; 10				Hydrophytic Vegetation Indicators:
	20% of	total cover		1 - Rapid Test for Hydrophytic Vegetation
hrub Straium (Plot size:)		0		2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0
	_			Problematic Hydrophytic Vegetation (Explain)
	_		_	Problematic Hydrophytic Vegetation (Explain)
	_		_	The second secon
				Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Five Vegetation Strata:
-		* 440		
		Total Cov	er	Tree - Woody plants, excluding woody vines,
5 50% of total cover:	20% of	total cover		approximately 20 ft (6 m) or more in height and 3 in.
erb Stratum (Plot size:)				(7.6 cm) or larger in diameter at breast height (DBH).
Cardamin haltsute	15	×	FUCH	Sapling - Woody plants, excluding woody vines,
	15	×	FACU	approximately 20 ft (6 m) or more in height and less
Shillavia midra				than 3 in. (7.6 cm) DBH.
Conicera japanica	15	×	FACU	
Allium vinale	15	у	HALL	Shrub - Woody plants, excluding woody vines,
				approximately 3 to 20 ft (1 to 6 m) in height.
				Herb - All herbaceous (non-woody) plants, including
	_	_		herbaceous vines, regardless of size, and woody
		_	_	plants, except woody vines, less than approximately
				3 ft (1 m) in height.
				The second secon
				Woody vine - All woody vines, regardless of height
		_	_	
	60 =	Total Cov	er	
50% of total cover: 36	20% of t	otal cover	17	
oody Vine Stratum (Plot size:)				
-				
			_	
				Hydrophytic
		Total Cove	er	Vegetation
/		-		Present? Yes No _X
50% of total cover	2000	otal cover.		1 10 July

Depth Des	cription: (Describe)	to the depth		x Feature		0, 00,,,,,,	it the absence of	indicators.	
(inches)	Color (moist)	-%	Color (moist)	%		Loc	Texture	Remarks	
010	104K5H	100		_			3.0		
10-18	104R 5/4	70			1	-	5.6		
	104R 5/3	30							
	1011-117	-			-				
				_	_	_			
_	$\overline{}$			_	_	_			
						_			
Type: C=C	oncentration D=Deple	etion, RM=Re	duced Matrix, MS	=Masked	Sand Gra	ins.	² Location: PL:	Pore Lining, M=Matri	x.
	ndicators: (Applica	ble to all LR						Problematic Hydric	Solls":
_ Histosol		-	Polyvalue Be					(A9) (LRR O)	
HISDC ED	ipedon (A2)		Thin Dark Su		A THE STATE OF		2 cm Muck	(A10) (LRR S) rertic (F18) (outside I	ALRA 150A,B
	n Sulfide (A4)		Loamy Mucky Loamy Gleye		The second second	O)	Piedmont 8	loodplain Soils (F19)	(LRR P, S, T
	Layers (A5)		Depleted Mat	-	(-1			Bright Loamy Soils (
	Bodies (A6) (LRR P,	T, U)	Redox Dark S	Surface (F	6)		(MLRA 1		
	cky Mineral (A7) (LR		Depleted Dar		4			Material (TF2)	A 1
	esence (A8) (LRR U)		Redox Depre		B)			ow Dark Surface (TF1	2)
	ck (A9) (LRR P, T)	A111	Mari (F10) (L			44	Other (Exp	lain in Remarks)	
	Below Dark Surface rk Surface (A12)	(A11)	Depleted Och Iron-Mangane				T) ³ indicator	s of hydrophytic veget	ation and
The second secon	airie Redox (A16) (M	LRA 150A)	Umbric Surfac					hydrology must be pr	
	ucky Mineral (S1) (LI		Delta Ochric (listurbed or problema	
	leyed Matrix (S4)	32.00	Reduced Vert		the state of the s	A, 150B)			
	edox (S5)		_ Piedmont Flor						
	Matrix (S6)	2000	_ Anomelous Br	right Loan	ny Solls (F	20) (MLR	A 149A, 153C, 153	(D)	
	face (S7) (LRR P, S, ayer (if observed):	1, 0)	_	_	_				
Type:	., ., ., ., ., ., ., ., ., ., ., ., .,								
Depth (inci	hael /)				Hydric Soil Pres	sent? Yes	No X
emarks	/		•	_		_	100000000000000000000000000000000000000		
Citim/AS.	/								

Project/Site San Spar	in Sular c	ity/County	sall and	Sampling Date 3-2 -2
Applicant/Owner: C14	LINEY	6 ± 4 ==	State: 1	Ly Sampling Point 03-WH
nvestigator(s).		Section Township	Range Mh	
Treesignio (a)				Concerve Slope (%) 3
Landform (hillslope, terrace, etc.)	7.03			
Subregion (CRR of MCRA)	LAI -	074387	_ Long -85, 97	15209 Detum: NHD83
Soil Map Unit Name LpD3			NWI c	classification: NH
Are climatic / hydrologic conditions	on the site typical for this time of yea	r? Yes X	No (If no, expla	ain in Remarks)
Are Vegetation Soil	, or Hydrology significantly d	isturbed?	Are "Normal Circumsta	nces* present? Yes X No
	or Hydrology naturally prob		(If needed, explain any	
SUMMARY OF FINDINGS -	- Attach site map showing	sampling poi	nt locations, tran	sects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No X	is the Sam	pled Area	/
Wetland Hydrology Present?	Yes No X	within a W	etland? Yes	NoX
Remarks:	165			
		L	for 03-1	NIZ
	upliand	20.2	197	
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary	Indicators (minimum of two required)
Primary Indicators (minimum of or	ne is required; check all that apply)		Surfac	ce Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	1	Spars	ely Vegetated Concave Surface (B8)
High Water Table (A2)	Mari Deposits (B15)	(LRR U)	Drains	age Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Oc	der (C1)	Moss	Trim Linea (B16)
Water Marks (B1)	Oxidized Rhizospher	res along Living F	Roots (C3) Dry-S	eason Water Table (C2)
Sediment Deposits (B2)	Presence of Reduce	d Iron (C4)	Crayfi	sh Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction	on in Tilled Soils	(C6) Satura	ation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geom	orphic Position (D2)
tron Deposits (B5)	Other (Explain in Re	marks)	Shallo	w Aquitard (D3)
Inundation Visible on Aerial In	magery (B7)		FAC-	Neutral Test (D5)
Water-Stained Leaves (B9)			Sphar	gnum moss (D8) (LRR T, U)
Field Observations:				
Surface Water Present? Ye	es NoX Depth (inches):			
Water Table Present? Ye	The first than the working			
Saturation Present? Ye	V -		Wetland Hydrology	Present? Yes No_X
(includes capillary fringe)			Party Manageria	2002
	gauge, monitoring well, aerial photos	, previous inspec	nons), il avallable.	
Describe Recorded Data (stream)				
Describe Recorded Data (stream) Remarks:				

Total Cover Total Cover Total Cover Total Cover Total Cover Stal cover:	FACU species x 4 =
Total Cover	FACW species
Total Cover 7	Column Totals:
otal cover:	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Total Cover	1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0' Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines,
	Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines,
	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines,
X FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
	Woody vine - All woody vines, regardless of height.
Total Cover 5	Hydrophytic Vegetation X
wai povei	Present? Yes No
	tal cover: 5

Depth	cription: (Describe Matrix		Red	ox Feature	5			
(inches)	Color (moist)	4-	Color (moist)	_%_	Type	Loc'	Texture	Remarks
)-14	104n5/2	90_9	5 Y124/LE	10	<u>c</u>		5.6	
						\equiv		
Histosol Histosol Histosol Histic Ep Black His Hydroge Stratified Organic 5 cm Mu	ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) Bodies (A6) (LRR F cky Mineral (A7) (Li	P, T, U) RR P, T, U)	RRs, unless other Polyvalue B Thin Dark S Loamy Much Loamy Gley Depleted Ma Redox Dark Depleted Da	elow Surface (S9) y Mineral (ed Matrix (atrix (F3) Surface (F ink Surface	ed.) ce (S8) (L (LRR S, (F1) (LRR F2) 6) (F7)	RR S, T, L T, U)	Indicators for Mu 1 cm Mu 2 cm Mu Reduced Pledmon Anomalo (MLRA	ent Material (TF2)
1 cm Mu Depleted Thick Da Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur	esence (A8) (LRR L ck (A9) (LRR P, T) Below Dark Surface rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, Sayer (If observed)	De (A11) MLRA 158A) LRR O, S) S, T, U)	Redox Depr Mari (F10) (I Depleted Oc Iron-Mangar Umbric Surfi Delta Ochric Reduced Ve Piedmont Fi Anomalous I	LRR U) chric (F11) nese Masse ace (F13) ((F17) (ML crtic (F18) (coodplain S	(MLRA 15 es (F12) (I LRR P, T, RA 151) MLRA 15 oils (F19)	LRR O, P, U) DA, 150B) (MLRA 14	Other (Ex T) Indicate wellan unless	illow Dark Surface (TF12) (plain in Remarks) ors of hydrophytic vegetation and and hydrology must be present, a disturbed or problematic.
Type:		/	-				Hydric Soil Pr	esent? Yes Y No
Depth (inc emarks:	nes).		-	_			nguna com ya	

Applicant/Owner Clearing	City/County Bulland State Ky Sampling Point 03-WAS
Soil Map Unit Name: LpD3	Section, Township, Range: NA Local relief (concave, convex, none): COYCAV Slope (%): 1 NOTICE State
Are climatic / hydrologic conditions on the site typical for this time of ye are Vegetation Soil or Hydrology significantly are Vegetation Soil or Hydrology naturally prospect to the site map showing SUMMARY OF FINDINGS - Attach site map showing	disturbed? Are "Normal Circumstances" present? Yes No
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes X No Yes X No Remarks:	Is the Sampled Area within a Wetland? Yes No
10271221 12	PFO PFO
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required, check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Presence of Reduce	CLRR U)
Remarks:	

(Plot size)	% Cover			Dominance Test worksheet: Number of Dominant Species 3
- Money amedian	10		FAC	That Are OBL, FACW, or FAC: (A
Prunes serulus	15	_ y	FHCU	Total Mumber of Decimant
- Querras alt.	10		FHK	Total Number of Dominant Species Across All Strata: 0 (B)
- Ourses Polente	20	X	FIKY	Species release release 18,
	10	X		Percent of Dominant Species
- Curyo glubra			FACU	That Are OBL, FACW, or FAC: 3 (A
	_			
	75	= Total Cox	/er	Prevalence Index worksheet:
50% of total cover: 3				Total % Cover of: Multiply by:
abling Stratum (Plot size:)	11. 10 /0 0	(Ctal Cove)	-	OBL species x 1 =
		4	r.	FACW species x 2 =
Querens filets	10		FACU	The state of the s
Cellis lawigh	10	_ <	FACIN	FAC species x 3 =
NEET VILLEY	10	y	FAC	FACU species x 4 =
Prunus Scholing	10	1	PICU	UPL species x 5 =
716/164 3-17		_	FIFT	Column Totals: (A) (
		_	_	Coddin Totals.
		0-3		Prevalence Index = B/A =
	50	Total Co.	er	
50% of total cover. 25	2001			Hydrophytic Vegetation Indicators:
	20% of	total cover	10	1 - Rapid Test for Hydrophytic Vegetation
rub Stratum (Plot size)				2 - Dominance Test is >50%
	- /		_	3 - Prevalence Index is \$3.0
			$\overline{}$	Problematic Hydrophytic Vegetation' (Explain)
				Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Five Vegetation Strata:
		F-1-1-1	_	Sommittees of 1140 Vogetation Circuit.
		Total Cov	A .	Tree - Woody plants, excluding woody vines,
50% of total cover:	20% of	total cover		approximately 20 ft (6 m) or more in height and 3 in.
rb Stratum (Plot size:)			579.0	(7.6 cm) or larger in diameter at breast height (DBH)
Conicer manura	30	X	TAC	ender who serves a serves
Codem or a huir miss				Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Carried to a Dail Street	5_	_	PACU	than 3 in. (7.6 cm) DBH.
				man o m. (r.o any obri.
				Shrub - Woody plants, excluding woody vines,
				approximately 3 to 20 ft (1 to 6 m) in height.
			_	man and the second seco
			$\overline{}$	Herb - All herbaceous (non-woody) plants, including
				herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
				3 ft (1 m) in height.
				o agrany in neight.
				Woody vine - All woody vines, regardless of height
	35 =	Total Cov	er	
50% of total cover: 17.			100	
Fig. 4 April 2015 Apri	20% 01	Mai cover:	_	
ody Vine Stratum (Plot size:)				
	2			
			_	
		- 7	1	Vertalitation
		+: F (a 3	_	Hydrophytic
		Total Cov	er	Vegetation Present? Yes No
VC30 - 44 - 4 - 12 - 12				
50% of total cover:		otal cover:		riesentr resno

	de 4/3	96	Color (moist)	x Features	Type	Loc	Texture		Remarks	
		160	con linuse				Sunge	امياب		
5 cm Mucky N Muck Present 1 cm Muck (A Depleted Beid Thick Dark Su Coast Praine	ators: (Applica on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, Mneral (A7) (LR ce (A8) (LRR U) 9) (LRR P, T) ow Dark Surface urface (A12) Redox (A16) (M Mineral (S1) (L d Matrix (S4) (S5)	T, U) R P, T, U) (A11)	Rs, unless other Potyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Oa Redox Depre Marl (F10) (L Depleted Oc Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Predmont Fice	wise note flow Surface (S9) y Mineral (ed Matrix (F trix (F3) Surface (F) k Surface essions (F6 RR U) hric (F11) (ese Masse ice (F13) ((F17) (ML tric (F18) (podplein Se	(d.) (d.) (d.) (d.) (d.) (d.) (d.) (d.)	RR S, T, U T, U) O) S1) LRR O, P, U) OA, 150B) (MLRA 14	Location: Indicators Indicators I cm / 2 cm / Reduct Reduct Red P Very S Other T) Indicators Indic	PL=Pore L for Proble Muck (A9) (I Muck (A10) (I Muck (I Muck (A10) (I Muck (I Muck (A10) (I Muck (I Mu	ining, M=Ma matic Hydri ,RR O) (LRR S) 18) (outside ein Soils (F1 Loamy Soils iai (TF2) c Surface (Ti Remarks)	c Solls ² ; a MLRA 150/ 9) (LRR P, S s (F20) F12) getation and present,
Coast Prairie Sandy Mucky Sandy Gleyed Sandy Redox Stripped Matri	Redox (A16) (M Mineral (S1) (L d Matrix (S4) (S5) ix (S6) (S7) (LRR P, S (If observed):	RR O, 5)	Umbric Surfa Delta Ochric Reduced Ver Predmont Fix	rce (F13) ((F17) (ML rtic (F18) (I codplain Sc	LRR P, T RA 151) MLRA 15 oils (F19)	(U) (MLRA 14 (MLRA 14	9A) A 149A, 153C	tland hydrole ess disturbe	ogy must be d or problem	present,

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Song Sparrow Solar City/County: Kevill	
Applicant/Owner: Clearway Renewables	State: Sampling Point: 02-UAS-0
Investigator(s): M. Johnson , M. Angel Section, Township, Range: _	NIA
Landform (hillslope, terrace, etc.):	, none): Slope (%):
· ·	- 98, 864 397 Datum: NAD830
Soil Map Unit Name: 6s 8 3	NWI classification: W/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No	(If no, explain in Remarks.)
	al Circumstances" present? Yes No
	explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locati	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No Within a Wetland?	Yes No
Remarks: Wetland point paired with	02-W-01
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
✓ Saturation (A3)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches); \	
Saturation Present? Yes No Depth (inches): 3 Wetland (includes capillary fringe)	Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if av	ailable:
Remarks:	
	i i
	P

ree Stratum (Plot size: 30 ft)	Absolute Dominant Indicator **Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
		Total Number of Dominant
		Species Across All Strata: (B)
		Percent of Dominant Species That Are OBL, FACW, or FAC: (A
		Prevalence Index worksheet:
	= Total Cover	Total % Cover of: Multiply by:
	20% of total cover:	OBL species x1 =
apling Stratum (Plot size: \5 f4)		FACW species x 2 =
		FAC species x3 =
AND		FACU species x 4 =
N /A		UPL species x 5 =
		Column Totals: (A) (I
		Prevalence Index = B/A =
The second of th	= Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover: Shrub Stratum (Plot size:)	20% of total cover:	1-Rapid Test for Hydrophytic Vegetation
·	The same	
	11100	
NA		Problematic Hydrophytic Vegetation (Explain)
		Indicators of hydric soil and wetland hydrology must
		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	= Total Cover	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines,
erb Stratum (Plot size: 50% of total cover. Panirum dichatomislosure.	Total Cover 20% of total cover: 60 V FACU	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines.
50% of total cover Stratum (Plot size:) Panirum dicharanifocure.	Total Cover 20% of total cover: 60 V FACU	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
So% of total cover lerb Stratum (Plot size:) Panir um dichohomi (losure.	Total Cover 20% of total cover: 60 V FACU	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Sow of total cover	Total Cover 20% of total cover: 60 V FACU	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
50% of total cover Stratum (Plot size:) Panicum dicho-tomi() ocure.	Total Cover 20% of total cover: 60 V FACU	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
Sow of total cover Herb Stratum (Plot size:) Panir um di trodomi (locure.	Total Cover 20% of total cover: (nΩ V FACU	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover Herb Stratum (Plot size:) Panir um dictohomis occur.	Total Cover 20% of total cover: (nΩ V FACU	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
Solver of total cover	Total Cover 20% of total cover: 60 V FACU	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Sow of total cover	Total Cover 20% of total cover: 60 FACU FACU 90 = Total Cover	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height
Sow of total cover Herb Stratum (Plot size:) Panicum dishakami(losure.	Total Cover 20% of total cover: 60 V FACU	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height
50% of total cover	Total Cover 20% of total cover: 60 FACU FACU 90 = Total Cover	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height
50% of total cover. Herb Stratum (Plot size:) Panicum dicrodomissorum.	Total Cover 20% of total cover: 60 FACU FACU 90 = Total Cover	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height
Solver of total cover. Solver of total cover. Danic um dicharacteristics. Danic um dicharacteristics. Solver of total cover.	Total Cover 20% of total cover: 60 FACU FACU 90 = Total Cover	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height
Solver of total cover	Total Cover 20% of total cover: (n\text{\tinte\text{\texictex{\text{\text{\text{\texi{\text{\texictex{\text{\texicte\t	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height
50% of total cover Herb Stratum (Plot size:) Danic um Aic trahami Nocure. 3. 3. 4. 50% of total cover: 50% of total cover: Noody Vine Stratum (Plot size:)	Total Cover 20% of total cover: (n\text{\tinte\text{\texictex{\text{\text{\text{\texi{\text{\texictex{\text{\texicte\t	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height
Herb Stratum (Plot size:) 1. Panicum di crustomistorum. 2	Total Cover 20% of total cover: (a) V FACU (b) = Total Cover 20% of total cover: 17.0	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height Vegetation
Solution (Plot size:) Panir um (A churkomi Cocurre) Panir um (A churkomi Cocurre	Total Cover 20% of total cover: (n\text{\tinte\text{\texictex{\text{\text{\text{\texi{\text{\texictex{\text{\texicte\t	be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) of larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height

US Army Corps of Engineers

Atlantic and Gulf Coastal Plain Region - Version 2.0



	ription: (Describe	to the depth				or confirm	the absence of	indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	Type ¹	Loc²	Texture	Remarks	
0-18	10 425/2		2.54 5/8	8	C	M	5,0		
0 10	to IZOIA	1	10417 211	2	-	M	5.6		
-			10 116 011						
-									
1Tunor C-C	oncentration, D=Dep	lotion PM-P	Peduced Matrix CS	S=Covere	d or Coate	d Sand Gr	ains ² l ocat	ion: PL=Pore Lining, M	=Matrix
Hydric Soil		letion, Rivi-R	reduced Matrix, Oc	D-COVERE	u or coate	d Carlo Cr		Problematic Hydric S	
Histosol			Polyvalue Be	low Surfa	ce (S8) (L	RR S. T. U		k (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					k (A10) (LRR S)	
	stic (A3)		Loamy Muck					Vertic (F18) (outside N	ILRA 150A,B)
Hydroge	n Sulfide (A4)		Løamy Gleye	d Matrix	(F2)			Floodplain Soils (F19)	
_	l Layers (A5)		✓ Depleted Ma					us Bright Loamy Soils (F	⁻ 20)
	Bodies (A6) (LRR P		Redox Dark	-	-		(MLRA	•	
	icky Mineral (A7) (LF		Depleted Date				_	nt Material (TF2)	0) /I DD T 1II
	esence (A8) (LRR U ick (A9) (LRR P, T))	Redox Depre		0)		-	llow Dark Surface (TF12 plain in Remarks)	2) (LRR 1, U)
	d Below Dark Surfac	e (A11)	Depleted Ocl		(MLRA 1	51)	Other (Ex	plain in Nemarks)	
	ark Surface (A12)	S (7111)	Iron-Mangan				T) ³ Indicate	ors of hydrophytic veget	ation and
	rairie Redox (A16) (N	/ILRA 150A)					•	d hydrology must be pro	
Sandy M	lucky Mineral (S1) (L	.RR O, S)	Delta Ochric	(F17) (MI	-RA 151)		unless	disturbed or problemat	ic.
1	Bleyed Matrix (S4)		Reduced Ver						
	ledox (S5)		Piedmont Flo	-		-	-	\	
	Matrix (S6)		Anomalous E	Bright Loa	my Soils (-20) (MLR.	A 149A, 153C, 1	53D)	
	rface (S7) (LRR P, S _ayer (if observed):						T		
Type:	. 1/1	×	_				Hydric Soil Pr	esent? Yes	No
Depth (in	ches):	,	_				Hydric 30ii Fr	esent: les	140
Remarks:									

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: San Sampling Date: 02/24 Applicant/Owner: Clear Care Venewards State: KTY. Sampling Date: 02/24 Applicant/Owner: Clear Care Venewards State: KTY. Sampling Point: 02-04 Investigator(s): M. January M. Angel Section, Township, Range: Jall A. Landform (hillippo, terrace, etc.): Violation of the site typical for this time of year? Yes Local relief (concave, convex, none): Convex Slope (%): J. Subregion (LRR or MLRA): LR-LP Lat: 37-0/8/AD Long: 88.864362. Datum: MADE Soil Map Unit Name: 02-053 Are climated / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Soil Map Unit Name: 02-053 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Support of the sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Indicators: Primary Indicators (minimum of two requires Primary I		parmon &	lar City/	County: We	vil/Bal	<i>lard</i>	Sampling	Date: 02/201
Section, Township, Range: A								
Landform (hillslope, terrace, etc.):		•					. , ,	
Subregion (LRR or MLRA): LPLP Let: \$\frac{\text{ST-OPRLA}}{\text{LR}}\$ Long: \$\frac{\text{B8.6436.2}}{\text{NWI classification:}}\$ Datum: \text{NADC} Soil Map Unit Name: \$\frac{\text{C_2_S_3}}{\text{S3}}\$ NWI classification: \$\frac{\text{NV/Total poly in significantly disturbed?}{\text{Are Vegetation}}\$ Are vegetation \$\text{Soil}\$ or Hydrology significantly disturbed? Are "Normal Circumstances' present? Yes \$\frac{\text{No}}{\text{Mos}}\$ No \$\text{Are Normal Circumstances' present?}\$ Yes \$\frac{\text{No}}{\text{No}}\$ No \$\text{Are Vegetation any answers in Remarks.}\$ \$\text{SUMMARY OF FINDINGS}\$ - Attach site map showing sampling point locations, transects, important features, \$\text{e}\$ \$\text{Hydric poly fic Soil Present?}\$ Yes \$\frac{\text{No}}{\text{No}}\$ No \$\text{Vegetation Present?}\$ Yes \$\frac{\text{No}}{\text{No}}\$ No \$\text{Vestand Hydrology Present?}\$ Yes \$\frac{\text{No}}{\text{No}}\$ No \$\text{Vestand Hydrology Indicators:}\$ \$\text{Surface Water (A1)}\$ \$\text{Vestand Hydrology indicators:}\$ \$\text{Surface Water (A1)}\$ \$\text{Vestand RJ3}\$ \$\text{Vestand RJ3}\$ \$\text{Drainage Patterns (B10)}\$ \$\text{Most Find Lines (B16)}\$ \$\text{Vest Marks (B1)}\$ \$\text{Vest Saturation (A3)}\$ \$\text{Mar Deposits (B2)}\$ \$\text{Oxidzed Rhizospheres on Living Roots (C3)}\$ \$\text{Crayfish Burrows (C8)}\$ \$\text{Saturation Visible on Aerial Imagery (B7)}\$ \$\text{Other (Explain in Remarks)}\$ \$\text{FAC-Neutral Test (D5)}\$ \$\text{Field Observations:}\$ \$\text{Surface Nater Present?}\$ \$\text{Yes}\$ \$\text{No}\$ \$\text{Depth (inches):}\$ \$\text{Depth (inches):}\$ \$\text{Vestland Hydrology Present?}\$ \$\text{Yes}\$ \$\text{No}\$ \$\text{Depth (inches):}\$ \$\text{Vestland Hydrology Present?}\$ \$\text{Yes}\$ \$\text{No}\$ \$\text{Depth (inches):}\$ \$\text{Vestland Hydrology Present?}\$ \$\text{Yes}\$ \$\text{No}\$ \$\text{Vestland Hydrology Present?}\$ \$\text{Yes}\$ \$\text{No}\$ \$\			O .				V- V-	Slone (%): 1
Soil Map Unit Name: 253 Are climatic / hydrologic conditions on the site typical for this time of year? Yes				•				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Soil Pres			Lat; 3 1.06	440	_ Long:			
Are Vegetation, Soil, or Hydrology significantly disturbed?				1				0/14
Are Vegetation, Soil, or Hydrology	Are climatic / hydrologic condition	ons on the site typical for	or this time of year?					
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Wetland Hydrology Indicators: Water Make (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Drift Deposits (B3) Algal Mat or Crust (B4) In Deposits (B5) In Deposits (B5) In Deposits (B5) In Indicator New More (B7) Is the Sampled Area within a Wetland? Wetland Hydrology Indicators: Secondary Indicators (minimum of two required check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (B7) Dry-Beason Water Table (C2) Saturation Visible on Aerial Imagery (B7) Depth (inches): Water Table Present? Ves No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):	Are Vegetation, Soil	, or Hydrology	significantly distu	rbed? A	re "Normal Circ	cumstances"	present? Y	es No
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Wetland Hydrology Indicators: Secondary Indicators (minimum of two requires Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8 High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Moss Trim Lines (B16) Mosr Trim Lines (B16) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Saturation (A3) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Presen	Are Vegetation, Soil	, or Hydrology	naturally problem	natic? (I	f needed, expla	ain any answe	ers in Remai	rks.)
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Mari Deposits (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B7) Iron Deposits (B7) Iron Deposits (B8) Depth (inches): Water Table Present? Ves No Depth (inches): Water Table Present? Ves No Depth (inches): Water Table Present? Ves No Depth (inches): Water Table Present? Ves No Depth (inches): Water Table Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Wetland	SUMMARY OF FINDING	S – Attach site n	nap showing sai	mpling poir	t locations	, transects	s, importa	ant features, etc
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Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) High Water Table (A2) Saturation (A3) Marl Deposits (B15) (LRR U) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Soil Cracks (B6) Water-Stained Leaves (B9) Sparsely Vegetated Concave Surface (B8 Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No								
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Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Sediment Deposits (B2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Ves No Ves No Depth (inches): Ve		_						- (00)
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Algal Mat or Crust (B4)		_						rial Imagen/ (C9)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches):							•	
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Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No		al Imagery (B7)	`	•	_	-		
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Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No		Yes No U	Depth (inches):					
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)		<u> </u>						
(includes capillary fringe)			· · · · ·		Wetland Hydre	ology Prese	nt? Yes_	No
	(includes capillary fringe)							
Remarks:								
Remarks.	Domorko							

se Stratum (Plot size: 30-F2)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
	_			Number of Dominant Species That Are OBL, FACW, or FAC:	1	_(A)
154				Total Number of Dominant Species Across All Strata:	2	_(B)
			_	Percent of Dominant Species That Are OBL, FACW, or FAC:	Sa	_(A/B)
				Prevalence Index worksheet:		
				Total % Cover of:	Multiply by	
		=Total Cover		OBL species 6 x 1	= 0	
50% of total cover:	20%	of total cover:		FACW species 0 x2	2= 0	
pling/Shrub Stratum (Plot size: 15-F+)			FAC species x3	= 60	
				FACU species 15 x4	= 60	
_				UPL species 10 x5	S= .50	
ALA				Column Totals: 45 (A)	170	(B
				Prevalence Index = B/A =	3.7	
				Hydrophytic Vegetation Indicate	_	
		. (1 - Rapid Test for Hydrophytic	Vegetation	
				2 - Dominance Test is >50%	100	
	- Table 1			3 - Prevalence Index is ≤3.01		
		=Total Cover		Problematic Hydrophytic Vege	etation1 (Exp	lain)
50% of total cover:		of total cover			,,,,,,	
erb Stratum (Plot size: 5).		,				
Allium vinealle				Tree - Woody plants, excluding y more in diameter at breast height height.	rines, 3 in. (7	
				Sapling/Shrub - Woody plants, on than 3 in. DLH and greater than 3	excluding vin 3.28 ft (1 m)	es, les tall
				H rb -All herbaceous (non-wood of size, and woody plants less that		
50% of total cover: 7	-	=Total Cover	30	Woody Vine All woody vines grapheight.	reater than 3	.28 ft ir
oody Vine Stratum (Plot size: 30-P-)	-	-4.071-031122				
-	(···			1		
AIG						
- PIF		-				
	-					
·		T-1-10		Hydrophytic	3	1
7.14 January		=Total Cover		Vegetation	/	
50% of total cover:	20%	of total cover	<u> </u>	Present? Yes	No_V	
	ons below.)					
emarks: (If observed, list morphological adaptati						
emarks: (If observed, list morphological adaptati						

Depth		latrix			Redox	Feature	s			of indicators.)	
(inches)	Color (mo	oist)	%	Colo	r (moist)	%_	_Type ¹	Loc²	Texture	Remarks	
P-0	10 YR	4/4	100						_S; ر_		
4-12	10 412	5 3	<u>95</u> _	10	YR-6/1	5	C	M	5:		
•							3				
		D=Deple	tion, RM=F	Reduce	ed Matrix, CS=	 Covere	d or Coate	d Sand Gr		ocation: PL=Pore Lining,	
lydric Soil I					Polyvalue Belo	ow Surfa	re (SR) (I	DD S T II		Muck (A9) (LRR O)	c sons .
Histosol	ipedon (A2)				Thin Dark Sur				. —	Muck (A10) (LRR S)	
Black Hi				_	oamy Mucky			-		ed Vertic (F18) (outside	MLRA 150A,E
	n Sulfide (A4))		_	oamy Gleyed					ont Floodplain Soils (F1	
Stratified	Layers (A5)			_	Depleted Matr				_	alous Bright Loamy Soils	(F20)
	Bodies (A6) (_	Redox Dark S	•	•		•	RA 153B)	
	cky Mineral (R P, T, U)	_	Depleted Dark					arent Material (TF2)	-40\
	esence (A8) (Redox Depres	-	8)			Shallow Dark Surface (Th	-12) (LRR 1, U)
	ck (A9) (LRR	-	(844)		Marl (F10) (LR Depleted Ochr	-	(MI DA 18	E4\	Other	(Explain in Remarks)	
	Below Dark rk Surface (A		(A11)	_	ron-Mangane				T) ³ Indic	cators of hydrophytic veg	etation and
	airie Redox (LRA 150A)		Jmbric Surfac				-	tland hydrology must be	
	ucky Mineral				Delta Ochric (•		ess disturbed or problem	-
	leyed Matrix		-	F	Reduced Verti	c (F18) (MLRA 15	OA. 150B)			
Sandy G	,	(04)		-		C (1 10) 1		,,			
	edox (S5)	(04)		F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	-		
Sandy R Stripped	edox (S5) Matrix (S6)			F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	9A) A 149A, 153C	, 153D)	
Sandy R Stripped Dark Sur	edox (S5) Matrix (S6) face (S7) (LF	RR P, S,	T, U)	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	-	, 153D)	
Sandy R Stripped Dark Sur Restrictive L	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	-	, 153D)	
Sandy R Stripped Dark Sur Restrictive L	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		
Sandy R Stripped Dark Sur Restrictive L	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	-		_ No
Sandy R Stripped Dark Sur Restrictive L Type:	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		_ No <u></u>
Sandy R Stripped Dark Sur Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		_ No <u></u>
Sandy R Stripped Dark Sur Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		_ No <u></u>
Sandy R Stripped Dark Sur Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		_ No <u></u>
Sandy R Stripped Dark Sur Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		_ No
Sandy R Stripped Dark Sur Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		_ No <u></u>
Sandy R Stripped Dark Sur Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		_ No <u></u>
Sandy R Stripped Dark Sur Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		_ No <u></u>
Sandy R Stripped Dark Sur Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No C
Sandy R Stripped Dark Sur Restrictive I Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No_
Sandy R Stripped Dark Sur Restrictive I Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No_
Sandy R Stripped Dark Sur Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No_
Sandy R Stripped Dark Sur Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No_
Sandy R Stripped Dark Sur Restrictive I Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No
Sandy R Stripped Dark Sur Restrictive I Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No
Sandy R Stripped Dark Sur Restrictive I Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No_
Sandy R Stripped Dark Sur Restrictive I Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No_
Sandy R Stripped Dark Sur Restrictive I Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No
Sandy R Stripped Dark Sur Restrictive I Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No L
Sandy R Stripped Dark Sur Restrictive I Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No L
Sandy R Stripped Dark Sur Restrictive I Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF ayer (if obse	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No C
Sandy R Stripped Dark Sur Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LF	RR P, S, erved):	4	F	Piedmont Floo	dplain S	ioils (F19)	(MLRA 14	A 149A, 153C		No L

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Song Sparrow Solar City/County: Ke	VILL / Ballard Sampling Date: 02/2063
Applicant/Owner: Clearway Kenewahles	State: V Sampling Point: 02-WA5-0
	o, Range: N/A
	ive, convex, none): <u>Concave</u> Slope (%): <u>\</u>
3	
Subregion (LRR or MLRA): Lat: 37.019623	
Soil Map Unit Name: 6583	NWI classification: \mathcal{D}/\mathbf{A}
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling poi	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: No No No No No No No No No No No No No	11/
02-W-0Z	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) Mari Deposits (B15) (LRR U)	Moss Trim Lines (B16)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Drift Deposits (B3) Presence of Reduced Iron (C4)	Roots (C3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Indition Visible on Aerial Imagery (B7) Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations	
Surface Water Present? Yes No Depth (inches): 2	
Water Table Present? Yes V, No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:	
1	

0.6.7	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species Z
1,				That Are OBL, FACW, or FAC: (A)
2		$\overline{}$		Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5,				That Are OBL, FACW, or FAC: (A/B)
6				
7.				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-			OBL species x 1 =
1,				FACW species x 2 =
2				FAC species x 3 =
3,				FACU species x 4 =
4N/A				UPL species x 5 =
5				Column Totals: (A) (B)
6.				
7.	-			Prevalence Index = B/A =
1		= Total Cove	or or	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15++)			J1	Dominance Test is >50%
1. Salix nigra	60	1	OBL	Prevalence Index is ≤3.0¹
2				Problematic Hydrophytic Vegetation¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must
		-		be present, unless disturbed or problematic.
5				Definitions of Vegetation Streta
6				Definitions of Vegetation Strata:
7,	10			Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 30++)	9-32	= Total Cov	70%13	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Pumer Crispus		V	FHI.	
1. VIIINES CAISPIL	- 10		1112	Sapling – Woody plants, excluding woody vines,
2				approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3				than o in, (1.5 cm) BBH.
4				Shrub – Woody plants, excluding woody vines,
5				approximately 3 to 20 ft (1 to 6 m) in height.
6.				Herb – All herbaceous (non-woody) plants, including
7				herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				, , ,
10				Woody vine – All woody vines, regardless of height.
11				
12,				
		= Total Cov	er	
Woody Vine Stratum (Plot size: 305)				
1				
2				
3				
4.				
5.				Hydrophytic
iii		= Total Cov	er	Vegetation Present? Yes No
Remarks: (If observed, list morphological adaptations be	low).			

Depth	Matrix			ox Feature			the absence of in	
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-8	1045 2/2		7.5 YIZ-5/8	10		M	6:6 _	
8-18	10 412 5/2	90 1	7.54125/8	7		_11	6;c	
		3 \$	1042 2/1	3	C	\mathcal{M}	Sic	
ydric Soil Histosol Histic E Black H Hydroge Stratifier Organic 5 cm Mi Muck Pi 1 cm Mi Deplete Thick Di Coast P Sandy M	oncentration, D=Deplindicators: (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P, ucky Mineral (A7) (LR resence (A8) (LRR P, T) d Below Dark Surface ark Surface (A12) rairie Redox (A16) (M Mucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5)	T, U) R P, T, U) (A11)	Polyvalue B Thin Dark S Loamy Mucl Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr Marl (F10) (Depleted Oc Iron-Mangal Umbric Surf Reduced Ve	elow Surface (S9 ky Mineral ed Matrix (F3) Surface (Fark Surface essions (F11) chric (F11) nese Massace (F13) c (F17) (MI ertic (F18) oodplain S	(F2) (F1) (LRR (F2) (F6) (F7) (MLRA 19) (MLRA 19) (LRR P, T LRA 151) (MLRA 15 (MLRA 15 (MLRA 15 (MLRA 15 (MLRA 15 (MLRA 15)	RR S, T, U T, U) O) LRR O, P, U) OA, 150B) (MLRA 14	Indicators for F 1) 1 cm Muck 2 cm Muck Reduced Vo Piedmont F Anomalous	Material (TF2) w Dark Surface (TF12) (LRR T, I ain in Remarks) of hydrophytic vegetation and hydrology must be present, isturbed or problematic.
_ Dark Suestrictive Type:	I Matrix (S6) rface (S7) (LRR P, S, Layer (if observed):	, T, U)					A 149A, 153C, 153	
	ches):							
Depth (in ernarks:	ches):							

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region Sparrow Solar City/County: NevilBallard Sampling Date: 02/20/23 Applicant/Owner: Cleanway Zenewayles State: Ky Sampling Point: 62 Investigator(s): M Jahnson M. Angel Section, Township, Range: MA Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): _____ Slope (%): Lat: 37019597 Long: -88.863170 Subregion (LRR or MLRA): LRRP Soil Map Unit Name: 65 83 NWI classification: NWI Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes ______ Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? No Wetland Hydrology Present? Remarks: **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: ___ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) ___ Sparsely Vegetated Concave Surface (B8) ___ Aquatic Fauna (B13) Surface Water (A1) ___ Drainage Patterns (B10) ___ Marl Deposits (B15) (LRR U) High Water Table (A2) ___ Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) __ Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) ___ Dry-Season Water Table (C2) __ Water Marks (B1) ___ Presence of Reduced Iron (C4) ___ Crayfish Burrows (C8) Sediment Deposits (B2) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Saturation Visible on Aerial Imagery (C9) __ Drift Deposits (B3) __ Geomorphic Position (D2) ___ Algal Mat or Crust (B4) __ Thin Muck Surface (C7) _ Other (Explain in Remarks) _ Iron Deposits (B5) ___ Shallow Aquitard (D3) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: L Depth (inches): Surface Water Present? Water Table Present? Depth (inches): _ Wetland Hydrology Present? Yes _ Saturation Present? Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

	Absolute Dominant	Indicator	Dominance Test worksheet:
	% Cover Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
NA		_	Total Number of Dominant Species Across All Strata: (B)
		_	Percent of Dominant Species
			That Are OBL, FACW, or FAC: (A/B)
			Prevalence Index worksheet:
	= Total Cov		Total % Cover of: Multiply by:
50% of total cover:	_ 20% of total cover	:	OBL species x 1 =
iling Stratum (Plot size:)			FACW species x 2 =
			FAC species x 3 =
NA			FACU species x 4 =
			UPL species x 5 =
			Column Totals: (A) (B)
			Prevalence Index = B/A =
	= Total Cov	/er	Hydrophytic Vegetation Indicators:
50% of total cover:	_ 20% of total cover	:	1 - Rapid Test for Hydrophytic Vegetation
ub Stratum (Plot size: 15)			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0¹
			Problematic Hydrophytic Vegetation ¹ (Explain)
NA			Problematic Hydrophytic Vegetation (Explain)
4.			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Five Vegetation Strata:
			Definitions of the Vegetation Strata.
	= Total Cov		Tree - Woody plants, excluding woody vines,
50% of total cover:	_ 20% of total cover	:	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
rb Stratum (Plot size:)	_	~ s.	(7.0 cm) of larger in diameter at breast height (DBH).
Lumes cris PUS	$\frac{2}{\sqrt{2}}$	FAL	Sapling – Woody plants, excluding woody vines,
Allium Vineale	10 V	FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Stellaria media	10	FACU	
Lamium amplexicade		WRL	Shrub Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
			Herb - All herbaceous (non-woody) plants, including
			herbaceous vines, regardless of size, and woody
			plants, except woody vines, less than approximately 3 ft (1 m) in height.
			Woody vine – All woody vines, regardless of height.
			The state of the s
-	75		
11.8-	90 = Total Cov	/er	
50% of total cover:	20% of total cover	18	
ody Vine Stratum (Plot size:)			
2.7 %			
D/A			
43			Hydrophytic
85.	= Total Cov	/er	Vegetation
The state of the s	_ 20% of total cover		Present? Yes No
hill of total cover			

Sampling Point: 02-WA5-04

Depth	Matrix			Redox	Feature	s			•
(inches)	Color (moist)	%	Color (%	Type ¹	_Loc ²	Texture	Remarks
0-4	IOYRHU	100	-		_	_		3:6	
4-16	104 242	95	10 YI	2516	_5	C	M	Sic	
		1							
	centration, D=Deple dicators: (Applica						ains.		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
Histosol (A		Die to all E		yvalue Bel			RR S. T. L		ick (A9) (LRR O)
Histic Epip	•			n Dark Sur				. —	ick (A10) (LRR S)
Black Hist	and the second second			my Mucky		-	-	The state of the s	Vertic (F18) (outside MLRA 150A,
Hydrogen	Sulfide (A4)		_/Loa	my Gleyer	Matrix (F2)	-	Piedmor	nt Floodplain Soils (F19) (LRR P, S, T
Stratified L	ayers (A5)		✓ De	pleted Mati	ix (F3)			Anomalo	ous Bright Loamy Soils (F20)
	odies (A6) (LRR P,			dox Dark S		•		•	A 153B)
	ky Mineral (A7) (LRI		_	pleted Darl					ent Material (TF2)
	sence (A8) (LRR U)		_	dox Depres	•	8)			allow Dark Surface (TF12)
	k (A9) (LRR P, T)	(444)		rl (F10) (LF		(BALIDA 4)	E4\	Other (E	xplain in Remarks)
-	Below Dark Surface Surface (A12)	(ATT)		pleted Och n-Mangane				T) 3Indicat	tors of hydrophytic vegetation and
	irie Redox (A16) (Mi	I RA 150A)		bric Surfac				•	nd hydrology must be present,
	cky Mineral (S1) (LF	-	_	ta Ochric (, , ,		, -,		s disturbed or problematic.
	yed Matrix (S4)			duced Vert			0A, 150B)		
_ canay cic									
Sandy Red			Pie	dmont Floo	odplain S	oils (F19)	(MLRA 14	I9A)	
	dox (S5)							19A) A 149A, 153C, 1	153D)
Sandy Red Stripped M Dark Surfa	dox (S5) Matrix (S6) ace (S7) (LRR P, S,	T, U)							153D)
Sandy Red Stripped M Dark Surfa Restrictive La	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):								153D)
Sandy Red Stripped M Dark Surfa Restrictive La Type:	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped M Dark Surfa Restrictive La Type:	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):								
Sandy Red Stripped M Dark Surfa Restrictive La Type:	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped M Dark Surfatestrictive La Type:	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped M Dark Surfatestrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped N Dark Surfa Restrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	
Sandy Red Stripped M Dark Surfatestrictive La Type:	dox (S5) Matrix (S6) ace (S7) (LRR P, S, yer (if observed):							A 149A, 153C, 1	

Landform (hillslope, terrace, etc.): Loca Subregion (LRR or MLRA): Lat: 37.0\(\circ\) Soil Map Unit Name: \(\circ\)583 Are climatic / hydrologic conditions on the site typical for this time of year? \(\circ\) Are Vegetation, Soil, or Hydrology significantly distu Are Vegetation, Soil, or Hydrology naturally problem	State: Sampling Point: 02-04: Store State: Sampling Point: 02-04: Store State: Sampling Point: 02-04: It relief (concave, convex, none): Concoure Slope (%): Note State: Sampling Point: 02-04: Store State: Sampling Point: 02-04: State: Sampling Point: 02-04: Store State: State: 02-04: Store State: State: 02-04: No State: State: 02-04: No State: State: 02-04: No	--	---
SUMMARY OF FINDINGS – Attach site map showing sar Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Wetland Percentage of the property of the proper	Is the Sampled Area within a Wetland? Paired with		
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LR) Saturation (A3) Hydrogen Sulfide Odor (C) Water Marks (B1) Oxidized Rhizospheres at Presence of Reduced Iron Sediment Deposits (B2) Presence of Reduced Iron Drift Deposits (B3) Recent Iron Reduction in Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	C1) Moss Trim Lines (B16) along Living Roots (C3) Dry-Season Water Table (C2) on (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)		
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, presents:	2 3 Wetland Hydrology Present? Yes No		

Tree Stratum (Plot size: 30 At)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
. 111		Total Number of Dominant Species Across All Strata: (B)
5		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6		Prevalence Index worksheet:
50W - 54-4-1	= Total Cover	Total % Cover of: Multiply by:
	20% of total cover:	OBL species x 1 =
Sapling Stratum (Plot size: 15f4)		FACW species x 2 =
1		FAC species x 3 =
2. 3.		FACU species x 4 =
		UPL species x 5 =
5		Column Totals: (A) (B)
6	= Total Cover	Prevalence Index = B/A =
50% of total cover:	20% of total cover:	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 1964)	20% of total obvol.	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
	<u> </u>	1000
		3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)
1/1		Problematic Hydrophytic Vegetation (Explain)
		¹ Indicators of hydric soil and wetland hydrology must
5		be present, unless disturbed or problematic.
6		Definitions of Five Vegetation Strata:
	= Total Cover	Z Mandu slaute such discoursed wises
	20% of total cover:	Tree Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 551)		(7.6 cm) or larger in diameter at breast height (DBH).
1. Agrostis stoloniferon	60 V FACW	Sapling – Woody plants, excluding woody vines,
2,		approximately 20 ft (6 m) or more in height and less
3		than 3 in. (7.6 cm) DBH.
4		Shrub - Woody plants, excluding woody vines,
5		approximately 3 to 20 ft (1 to 6 m) in height.
6,		Herb - All herbaceous (non-woody) plants, including
7.		herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately
8		3 ft (1 m) in height.
9		Woody vine - All woody vines, regardless of height.
10		vicedy ville 7 il vicedy villes, regulates of height.
11		
	= Total Cover	
	20% of total cover:	
Woody Vine Stratum (Plot size: 30 F)		
1-		
2N /A		
3		
4		/
5		Hydrophytic
	= Total Cover	Vegetation Present? Yes No
50% of total cover:		

Sampling Point: 02-WAS-05

inches)	Matrix		x Feature				
7-15	Color (moist) %	Color (moist)		_Type¹	Loc ²	Texture	Remarks
70	10 475/2590	6412618	.5	<u> </u>	M	316	63
	62	10 412 2/1					24
		-	-	-		_	
					2		
				_		_	-
vne: C=Cor	centration, D=Depletion, RM	=Reduced Matrix MS	S=Masker	Sand Gr	ains	21 ocation	PL=Pore Lining, M=Matrix.
	dicators: (Applicable to all				unio.		for Problematic Hydric Soils ³ :
_ Histosol (A		Polyvalue Be			DD S T I	,	Muck (A9) (LRR O)
	pedon (A2)	Thin Dark Su					Muck (A10) (LRR S)
_ Black Hist		Loamy Muck			-		
	Sulfide (A4)				. 0)		ced Vertic (F18) (outside MLRA 150A,
		Loamy Gleye		F2)			ont Floodplain Soils (F19) (LRR P, S, 1
	ayers (A5)	Depleted Mai		-0)		Law Law Law Law Law Law Law Law Law Law	alous Bright Loamy Soils (F20)
	odies (A6) (LRR P, T, U)	Redox Dark S	,	,			RA 153B)
	ky Mineral (A7) (LRR P, T, U)				_		arent Material (TF2)
	sence (A8) (LRR U)	Redox Depre		n)			Shallow Dark Surface (TF12)
	k (A9) (LRR P, T)	Marl (F10) (L		4531 B A A		Other	(Explain in Remarks)
	Below Dark Surface (A11)	Depleted Och				3	
	Surface (A12)	Iron-Mangan					cators of hydrophytic vegetation and
	irie Redox (A16) (MLRA 150				, U)		tland hydrology must be present,
	cky Mineral (S1) (LRR O, S)	Delta Ochric					ess disturbed or problematic.
	yed Matrix (S4)	Reduced Ver					
_ Sandy Re		Piedmont Flo					
Stripped M		Anomalous B	right Loar	ny Soils (I	F20) (MLR	A 149A, 153C	c, 153D)
	ICE (S7) (LRR P, S, T, U)	Action to the					Arthur and a second
	yor (if observed):						1
Type:C	compacted						/
D 4 - 6	00): 15					Hydric Soil	Present? Yes No
Depth (Inch	C5).			_			
Depth (inch	es) 1 O					L. C. CONTACTOR	
emarks:	es)1						
	es). <u>10</u>						
	es)						
	65)						
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	65)						
	65)			-			
	65)						
	65)			*			
	65)			*			
	es)						
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	es)						
	es)						
	es)						
	es)						
	es)						

S E 1 S-	an locator
Project/Site: Song Feld Starrow City/County: Vie	Sampling Date: 02/30/23
Applicant/Owner: Clear Day Rene	
Investigator(s): M. Johnson, M Angel Section, Townshi	
Landform (hillslope, terrace, etc.): Flat Local relief (conce	ave, convex, none): Slope (%):
Subregion (LRR or MLRA): LRRP Lat: 37.019/o/65	Long: <u>88 - 87033 6</u> Datum:
Soil Map Unit Name: 6583	NWI classification: U/ >
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No Is the San within a W	npled Area Vetland? Yes No
Upland point 02-w-03	pained with
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) Marl Deposits (B15) (LRR U)	Moss Trim Lines (B16)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled S	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No, Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Remarks:	

VEGETATION – Use scientific names of plants.

(A) (B) (A/B) (Miltiply by: (B)
(A/B)
fultiply by:
(B)
s:
ation¹ (Explain)
d hydrology must
olematic.
ody vines,
n height and 3 in. east height (DBH).
woody vines, height and less
voody vines,
n height.
) plants, including
e. Includes woody an approximately
ardless of height.
No
No <u></u>
No <u></u>
g

Depth (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Location: PL=Pore Lining, M=Matrix.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils Indicators for Problem
Histosol (A1)Polyvalue Below Surface (S8) (LRR S, T, U)1 cm Muck (A9) (LRR O)Histic Epipedon (A2)Thin Dark Surface (S9) (LRR S, T, U)2 cm Muck (A10) (LRR S)Black Histic (A3)Loamy Mucky Mineral (F1) (LRR O)Reduced Vertic (F18) (outside MLRA 150AHydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Piedmont Floodplain Soils (F19) (LRR P, S,Stratified Layers (A5)Depleted Matrix (F3)Anomalous Bright Loamy Soils (F20)Organic Bodies (A6) (LRR P, T, U)Redox Dark Surface (F6)(MLRA 153B)
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Medox Depressions (F8) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Very Shallow Dark Surface (TF12) (LRR T, U) Other (Explain in Remarks) Other (Explain in Remarks) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)

nvestigator(s): M. Jounson, M. Angel Section, Townshi	
	State: KY Sampling Point: O2 - WAS
andform (hillstone terrace etc.): (Acc) Local relief (conc	cave, convex, none): Concave Slope (%):
andform (hillslope, terrace, etc.):	
Soil Map Unit Name: FA	NWI classification:N
	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling po	oint locations, transects, important features, etc
Hudrio Sail Procent?	mpled Area Wetland? Yes No
wetlund point paired	with 02-w-04
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres along Living	· · — ·
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils Algal Mat or Crust (B4) Thin Muck Surface (C7)	(C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aguitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes NoDepth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if available:
	,,
Remarks:	
Domarka:	

Tree Stratum (Plot size: 30)	Absolute Dominant Indicator	Dominance Test worksheet:
	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
*		That Are OBL, FACW, or FAC:(A)
N/A		Total Number of Dominant
		Species Across All Strata: (B)
4-		Percent of Dominant Species
		That Are OBL, FACW, or FAC: (A/I
+		Prevalence Index worksheet:
	= Total Cover	Total % Cover of: Multiply by:
	20% of total cover:	OBL species x1 =
Sapling Stratum (Plot size:)		FACW species x 2 =
NH		FAC species x 3 =
		FACU species x 4 =
		UPL species x 5 =
		Column Totals: (A) (E
		Provolence Index = P/A -
	= Total Cover	Prevalence Index = B/A =
50% of total cover	20% of total cover:	Hydrophytic Vegetation Indicators:
hrub Stratum (Plot size: 15)	20 /0 01 total 00 vcl	- Trapia root io Tryatophytic regotation
(I lot bize:		2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.01
		Problematic Hydrophytic Vegetation ¹ (Explain)
1.1.N		
N/A		¹ Indicators of hydric soil and wetland hydrology must
		he present upless disturbed as problematic
		be present, unless disturbed or problematic.
		Definitions of Five Vegetation Strata:
	- Total Causa	Definitions of Five Vegetation Strata:
	- Total Causa	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines,
50% of total cover:		Definitions of Five Vegetation Strata:
erb Stratum (Plot size: 50% of total cover:	= Total Cover = Total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
erb Stratum (Plot size:)	= Total Cover = Total Cover: 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
erb Stratum (Plot size:)	= Total Cover = Total Cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
erb Stratum (Plot size:)	= Total Cover = Total Cover = Total Cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
erb Stratum (Plot size:)	= Total Cover = Total Cover 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
erb Stratum (Plot size:)	= Total Cover 20% of total cover: FACE	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
erb Stratum (Plot size:)	= Total Cover 20% of total cover: FACE	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
erb Stratum (Plot size:)	= Total Cover 20% of total cover: FACE	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
erb Stratum (Plot size:)	= Total Cover 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
50% of total cover:	= Total Cover 20% of total cover: FAW	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
erb Stratum (Plot size:)	= Total Cover 20% of total cover: FACE	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
erb Stratum (Plot size:	= Total Cover 20% of total cover: FACE	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
erb Stratum (Plot size:) Your curry dic notomillo	= Total Cover 20% of total cover: AREA FACE	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
erb Stratum (Plot size:	= Total Cover 20% of total cover: ARROW = Total Cover	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
erb Stratum (Plot size:	= Total Cover 20% of total cover: AREA FACE	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover:	= Total Cover 20% of total cover: FACE = Total Cover 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
erb Stratum (Plot size:	= Total Cover 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Solve of total cover:	= Total Cover 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
erb Stratum (Plot size:	= Total Cover 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover:	= Total Cover 20% of total cover: FACT = Total Cover 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover:	= Total Cover 20% of total cover: FACT = Total Cover 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH) Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
50% of total cover:	= Total Cover 20% of total cover: FACT = Total Cover 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Solve of total cover:	= Total Cover 20% of total cover: FACT = Total Cover 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.

Color (moist) % Color (moist) % Type Loc Texture Remarks O-4 10 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Depth	Matrix			x Features				
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Corganic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F1) Muck (A9) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR P, S) Delta Ochric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR P, S) Jepleted Matrix (F2) Matrix (F2) Jepleted Dark Surface (F1) Matrix (F2) Matrix (F2) Depleted Dark Surface (F3) Matrix (F3) Matrix (F3) Matrix (F3) Depleted Dark Surface (F7) Redox Depressions (F8) Matrix (F2) Matrix (F2) Matrix (F3) Matrix (F2) Matrix (F3) Matrix (F3) Matrix (F3) Matrix (F3) Matrix (F3) Matrix (F2) Matrix (F3) Matrix (F2) Matrix (F3) Matrix (F4) Matrix (F1) (ILRR 0, P, T) Matrix (F1) (ILRR 0, P, T) Matrix (F4) inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²		Remarks	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Som Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F6) 1 cm Muck (A9) (LRR P, T, U) Redox Dark Surface (F7) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Joany Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR P, T, U) Depleted Dark Surface (F6) Marl (F10) (LRR U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Unless disturbed or problematic.							1-	3iC _	
Adric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR U) Tom Muck (A9) (LRR P, T) Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Tom Muck (A9) (LRR P, T, U) Depleted Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) I cm Mucky Mineral (S1) (LRR O, S) I cm Mucky Mineral (S1) (LRR O, S) I cm Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) I cm Mucky Mineral (S1) (LRR O, S) I cm Mucky Mineral (S1) (LRR O, S) I cm Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) I cm Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) I cm Mucky Mineral (S1) (LRR O, S) I cm Mucky Mineral (S1) (LRR O, S) I cm Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) I cm Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) I cm Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) I cm Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Indicators for Problematic Hydric Soils: 1 cm Muck (A9) (LRR S, T, U) 2 cm Muck (A16) (LRR O, Reduced Vertic (F18) (utra S) Reduced Vertic (F18) (outside MLRA 150A, Reduced Vertic (F18) (outside MLRA 150A, Reduced Vertic (F18) (outside MLRA 150A, Reduced Vertic (F18) (utra S)	1-10	104881	90	16 425S	10	_ <u></u>	M		
	rdric Soil I Histosol Histic Ep Black His Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast Pr Sandy M	Indicators: (Application) (A1) (A1) (A2) (A3) (A3) (A4) (A4) (A4) (A4) (A4) (A4) (A4) (A4	t, U) R P, T, U) (A11)	LRRs, unless other Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (Li Depleted Och Iron-Mangane Umbric Surfar Delta Ochric	wise note low Surface (S9) y Mineral (d Matrix (I trix (F3) Surface (F k Surface ssions (F8 RR U) hric (F11) (ese Masse ce (F13) ((F17) (ML	ed.) ce (S8) (L (LRR S, (F1) (LRR F2) 6) (F7) 3) (MLRA 1: LRR P, T RA 151)	RR S, T, U T, U) (O) (T) (D) (D) (D)	Indicators for P 1 cm Muck 2 cm Muck Reduced Ve Piedmont FI Anomalous (MLRA 15 Red Parent Very Shallou Other (Expla	Problematic Hydric Soils ³ : (A9) (LRR O) (A10) (LRR S) ertic (F18) (outside MLRA 150A,E loodplain Soils (F19) (LRR P, S, T Bright Loamy Soils (F20) Material (TF2) W Dark Surface (TF12) ain in Remarks) of hydrophytic vegetation and hydrology must be present,
	Type:	nard Par	\	2				Hydric Soil Pres	ent? Yes / No
Depth (inches): No No									
Type: hard Pan Depth (inches): 10 Hydric Soil Present? Yes 1 No									

Project/Site: Song Sparrow Salar City/County: Kavalt	Ballard Sampling Date: 02 -20-23		
Applicant/Owner: Crearway Renewalotes			
Investigator(s): M. Johnson, M. Angel Section, Township, Range:	·		
Landform (hillslope, terrace, etc.): Kisse	, none): Slope (%):		
Subregion (LRR or MLRA): LRIZP Lat: 37. 0194414 Long:	-88.871318 Datum: NAD93(V		
	NWI classification: ムノノA		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No			
	al Circumstances" present? Yes No		
	explain any answers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point location	•		
Somman or Findings - Attach site map showing sampling point location	ons, transects, important reatures, etc.		
Hydrophytic Vegetation Present? Yes No Is the Sampled Area			
Hydric Soil Present? Yes No within a Wetland?	Yes No		
Wetland Hydrology Present? Yes No			
Remarks: Upland paint paine	d. 81		
HYDROLOGY			
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1) — Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)		
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)		
Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)		
Sediment Deposits (B2) Presence of Reduced Iron (C4) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)		
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)		
Iron Deposits (B5) — Other (Explain in Remarks)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)		
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)		
Field Observations:			
Surface Water Present? Yes No Depth (inches):			
Water Table Present? Yes No Depth (inches):			
	Hydrology Present? Yes No		
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	allable:		
Remarks:			
Tromano.			

7_	Absolute Dominant Indicator	Dominance Test worksheet:
ree Stratum (Plot size:3">(Plot size:3")	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A
11/1		Total Number of Dominant Species Across All Strata: (E
		Percent of Dominant Species That Are OBL, FACW, or FAC:
	= Total Cover	Prevalence Index worksheet:
50% of total cover:		
apling Stratum (Plot size:1 5)		FACW species x 2 =
		FAC species x 3 =
		FACU species x 4 =
N/A		UPL species x 5 =
		Column Totals: (A)
	= Total Cover	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
	20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation
rub Stratum (Plot size: \ \ \ \ \ \ \ \ \ \ \)		2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.0¹
		Problematic Hydrophytic Vegetation ¹ (Explain)
NIA		
NIA		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		Definitions of Five Vegetation Strata:
	= Total Cover	
50% of total cover:	20% of total cover;	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in
rb Stratum (Plot size:)		(7.6 cm) or larger in diameter at breast height (DBH
Zea mays	60 UPL	Sapling – Woody plants, excluding woody vines,
lamium ampleration		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
		Herb – All herbaceous (non-woody) plants, includin
		herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
		3 ft (1 m) in height.
		Woody vine - All woody vines, regardless of heigh
<u> </u>		
2	TO = Total Cover	
50% of total cover: 3 5	20% of total cover: IHD	
ody Vine Stratum (Plot size: 30)		
N/A		
70 / //		
		Hudrophytic
	= Total Cover	Hydrophytic Vegetation
		Present? Yes No
50% of total cover:	20 /6 UI (U(ai COVEI	

Depth	Matrix			x Feature:	S				
inches)	Color (moist)	% Co	olor (moist)	%	Type ¹	_Loc ²	Texture	Rema	rks
7-10	1040 4/3	100					BIC		
				_			-		
						_			
	ncentration, D=Deplet					ains.		PL=Pore Lining, M=1	
ydric Soil II	ndicators: (Applicab	le to all LRRs	, unless other	wise not	ed.)		Indicators f	for Problematic Hyd	tric Soils³:
_ Histosol ((A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, U	J) 1 cm M	uck (A9) (LRR O)	
_ Histic Epi	ipedon (A2)		Thin Dark Su	rface (S9)	(LRR S,	T, U)	2 cm M	uck (A10) (LRR S)	
_ Black His	· ·		Loamy Muck			l O)		d Vertic (F18) (outsi	
	n Sulfide (A4)		Loamy Gleye		F2)			nt Floodplain Soils (I	
	Layers (A5)		Depleted Ma	. ,				ous Bright Loamy So	oils (F20)
	Bodies (A6) (LRR P, T		Redox Dark	•	•		•	A 153B)	
	cky Mineral (A7) (LRR	P, T, U)	Depleted Dai				_	rent Material (TF2)	
	sence (A8) (LRR U)		Redox Depre	•	3)			allow Dark Surface	(TF12)
	ck (A9) (LRR P, T)		Marl (F10) (L	-	/MI DA 4	F4\	Other (E	Explain in Remarks)	
	Below Dark Surface (A11)	Depleted Ocl				T) 311:		
	rk Surface (A12) airie Redox (A16) (M L	PA 150A)	Iron-Mangan Umbric Surfa				•	itors of hydrophytic v and hydrology must t	•
_	ucky Mineral (S1) (LR		Delta Ochric		-	, 0,		ss disturbed or probl	•
	eyed Matrix (S4)		Reduced Ver			NA 150B\		ss disturbed or probl	emanc.
_ Sandy Re	• • • •		Piedmont Flo						
	Matrix (S6)	_				•	A 149A, 153C,	153D)	
	face (S7) (LRR P, S, 1	r. U)			, (, (,	,	
	ayer (if observed):						T		
									/
		4							
Туре:	compacted	1					Hydric Soil F	Present? Ves	No.
Type: Depth (incl	compacted	<u> </u>					Hydric Soil F	Present? Yes	No
Туре:	compacted	<u> </u>	-				Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted	<u> </u>					Hydric Soil F	Present? Yes	No
Type: Depth (inc	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted	<u> </u>					Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted	<u> </u>					Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted	<u> </u>					Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted	<u> </u>					Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (incl	compacted						Hydric Soil F	Present? Yes	No
Type: Depth (inc	compacted						Hydric Soil F	Present? Yes	No

Projecticity Sans Sans Sans Sales	City/County: Kein / Ballard Sampling Date: 02-21-23
J .	
	State: Sampling Point: 02-w/35-09
Investigator(s): M. Toronson, M. Angel	
	Local relief (concave, convex, none): Slope (%):
Subregion (LRR or MLRA): LRKY Lat: 37.0	018425 Long: <u>-88.871797</u> Datum: <u>NAO83</u> (4)
Soil Map Unit Name: Fa	NWI classification: 10/12
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro	blematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes No
02-voet-	point parted with
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained L	
High Water Table (A2) Aquatic Fauna (
Water Marks (B1) Hydrogen Sulfid	
	spheres on Living Roots (C3) Crayfish Burrows (C8) duced Iron (C4) Saturation Visible on Aerial Imagery (C9)
	duction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surfa	
Inundation Visible on Aerial Imagery (B7) Other (Explain is	<u> </u>
Field Observations:	
Surface Water Present? Yes No Depth (inches).	
Water Table Present? Yes No Depth (inches).	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	:\ Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo:	s, previous inspections), if available:
Remarks:	
1 70	- wetterd
Possible sinulate	the state of the s

	Absolute Deminent Indicates	, Sampling Forms <u>or original</u>
Tree Stratum (Plot size: 3054)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.		Total Number of Dominant
3.		Species Across All Strata: (B)
4NA		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
Sapling Stratum (Plot size: 15f+)	= Total Cover	Total % Cover of: Multiply by:
1		OBL species , x1 =
_	7	FACW species x 2 =
3 NA		FACULTURE X3 = X4 =
4		FACU species x 4 = UPL species x 5 =
5		Column Totals: (A) (B)
6.		Column Totals: (A)
7.		Prevalence Index = B/A =
	= Total Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15A)	Total Cover	Dominance Test is >50%
1	<u> </u>	Prevalence Index is ≤3.0¹
2.		Problematic Hydrophytic Vegetation¹ (Explain)
3. NA		
4		¹ Indicators of hydric soil and wetland hydrology must
5		be present, unless disturbed or problematic.
6		Definitions of Vegetation Strata:
7		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5)	= Total Cover	approximately 20 ft (6 m) or more in height and 3 in.
1. Agrostis statesifera	20 V, FALW	(7.6 cm) or larger in diameter at breast height (DBH).
2 Consis States	10 TEKIN	Sapling - Woody plants, excluding woody vines,
2. Cuperus Strigosus		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3		
4		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody
8.		plants, except woody vines, less than approximately
		3 ft (1 m) in height.
9		Woody vine - All woody vines, regardless of height.
11.		Commence of the control of the contr
12.		
	30 = Total Cover 2% 6	
Woody Vine Stratum (Plot size: 30-6:-)	30 15 20% 6	-
1	to make the same of the last	
2.		
3. P/M	Court was don't	
4.		Wide-state C
5.		Hydrophytic Vegetation
	= Total Cover	Present? Yes No
Remarks: (If observed, list morphological adaptations b	uplow)	
Remarks: (ii observed, list morphological adaptations b	GOW).	

Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	_ %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	2545/2	95	2 54 6/6	5			<u>s.c</u> _	
	-			_				
						=		
				_				
	oncentration, D=Dep	letion, RM=Re	educed Matrix, CS	S=Covered	d or Coate	d Sand Gr		n: PL=Pore Lining, M=Matrix.
=	Indicators:							Problematic Hydric Soils ³ :
Histosol	` '		Polyvalue Be				· —	(A9) (LRR O)
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
	istic (A3) en Sulfide (A4)		Loamy Mucky Loamy Gleye			. ()		ertic (F18) (outside MLRA 150A,i
	d Layers (A5)		Depleted Mat		[2]			Floodplain Soils (F19) (LRR P, S, T Bright Loamy Soils (F20)
	: Bodies (A6) (LRR P ,	. T. U)	Redox Dark S		6)		(MLRA 1	
	ucky Mineral (A7) (LR	•	Depleted Dar	-			•	t Material (TF2)
	résence (A8) (LRR U		Redox Depre					ow Dark Surface (TF12) (LRR T, U
	uck (A9) (LRR P, T)	•	Marl (F10) (L		•			lain in Remarks)
400-14	d Below Dark Surface	e (A11)	Depleted Och	ric (F11)	(MLRA 1	51)		
	ark Surface (A12)		Iron-Mangane		. , .		•	s of hydrophytic vegetation and
	rairie Redox (A16) (N	-	Umbric Surfa			, U)		hydrology must be present,
	Mucky Mineral (S1) (L	.RR O, S)	Delta Ochric		-			listurbed or problematic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver					
	i Matrix (S6)		Piedmont Flo				9A) A 149A, 153C, 153	ID)
	rface (S7) (LRR P, S	T. U)	Alloillaious b	ngiit Loai	ily Solis (i	20) (MEK	A 143A, 133C, 133	,,,
	Layer (if observed):					_		
	gravel							
	ches):		_				Hydric Soil Pres	sent? Yes No
			-				nyunc son Fres	sent? resNo
Remarks:								
_								
_								
_								
_								

Project/Site: Song Sparrow Solar City	/County: Keul / Ballard Sampling Date: 02-21-23
Applicant/Owner: Clearway Renewables	State: KY Sampling Point: 02-WAS-10
Investigator(s): M. Jahnson, M. Angel Sec	etion Township Range: 1) / N
	al relief (concave, convex, none): Concave_ Slope (%):
Subregion (LRR or MLRA): Ve pression Lat: 37.01	8448 Long: <u>-88.871346</u> Datum: <u>NAD850</u>
Soil Map Unit Name:	NWI classification: _// A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly dist	urbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problem	
	impling point locations, transects, important features, etc.
Hydrophytic Vegetation Dresent2	
Hydrophytic Vegetation Present? Yes No Yes No No Yes No Yes No Yes No No Yes N	Is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	
· ·	t paired with 02-0-05
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leav	
High Water Table (A2) Aquatic Fauna (B13)	
Saturation (A3) Marl Deposits (B15	
Water Marks (B1) Hydrogen Sulfide C	
T in the second	eres on Living Roots (C3) Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduc	
	tion in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface	
Inundation Visible on Aerial Imagery (B7) Other (Explain in R	emarks) FAC-Neutral Test (D5)
Surface Water Present? Yes No Depth (inches):	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	- West-ord Under Low Process April 2
Saturation Present? Yes NoDepth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	
Remarks.	

	Absolute D	Dominant Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:3 5) 1		Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2			Total Number of Dominant Species Across All Strata:	
4			Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
6			Prevalence Index worksheet:	
7			Total % Cover of: Multiply by:	
Sapling Stratum (Plot size:)		Total Cover	OBL species x 1 =	
1			FACW species x 2 =	
2			FAC species x 3 =	
3.			FACU species x 4 =	
4. //			UPL species x 5 =	
5			Column Totals: (A)	_ (B)
6.			Prevalence Index = B/A =	_
7			Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size:1 5)	=	Total Cover	Dominance Test is >50%	
1			Prevalence Index is ≤3.0¹	
2			Problematic Hydrophytic Vegetation ¹ (Expla	iin)
3. 4.			¹ Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.	must
5	4			
6			Definitions of Vegetation Strata:	
Herb Stratum (Plot size:)	7/2	1	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (D	
1. Lanieum ampleviad 2			Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and than 3 in. (7.6 cm) DBH.	s, less
4 5			Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
6 7			Herb – All herbaceous (non-woody) plants, includes plants, except woody vines, less than approximate the plants.	woody
8 9.			3 ft (1 m) in height.	
10			Woody vine – All woody vines, regardless of he	eight.
11				
12			1	
Woody Vine Stratum (Plot size: 30)	-	Total Cover		
1				
2. 3. // / /	-			
3				
5			Hydrophytic	/
0		Total Cover	Vegetation Present? Yes No	
Remarks: (If observed, list morphological adaptations below	ow).			

Depth	Matrix			x Features	S		the absence of i	national of
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc2	Texture	Remarks
0-10	2.5 Y TZ	100	_		_		5.2	
							7	
Type: C=Cor	ncentration, D=Dep	oletion RM=Re	educed Matrix CS	S=Covered	or Coate	d Sand Gr	rains ² l ocatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil In		olotion, run ru	oddodd Middin, O	0010100	or Occio	a cana or		Problematic Hydric Soils ³ :
Histosol (/	A 1)		Polyvalue Be	elow Surfac	ce (S8) (L	RR S, T, L	J) 1 cm Muck	(A9) (LRR O)
	pedon (A2)		Thin Dark Su					(A10) (LRR S)
Black Hist			Loamy Muck	-		O)		/ertic (F18) (outside MLRA 150A,B)
	Sulfide (A4) Layers (A5)		Loamy Gleye	-	F2)			Floodplain Soils (F19) (LRR P, S, T)
	layers (A5) lodies (A6) (LRR P	P. T. U)	Depleted Ma Redox Dark	, ,	6)		Anomalous	s Bright Loamy Soils (F20)
_	ky Mineral (A7) (LI		Depleted Da				•	t Material (TF2)
	sence (A8) (LRR L		Redox Depre					ow Dark Surface (TF12) (LRR T, U)
1 cm Muc	k (A9) (LRR P, T)		Marl (F10) (L	-			Other (Exp	olain in Remarks)
	Below Dark Surfac	e (A11)	Depleted Oc		-	-	a	
	k Surface (A12)	MI DA 450A)	Iron-Mangan				•	s of hydrophytic vegetation and
	irie Redox (A16) (I icky Mineral (S1) (I		Umbric Surfa Delta Ochric			U)		I hydrology must be present, disturbed or problematic.
	eyed Matrix (S4)	LIKIK O, J)	Reduced Ve		-	OA. 150B)		disturbed or problematic.
Sandy Re			Piedmont Flo					
Stripped N	Matrix (S6)			-		-	A 149A, 153C, 15	3D)
	ace (S7) (LRR P, S							
	yer (if observed):	ì						
	Compacte	ટ્લ						
Depth (inch	les):10		47				Hydric Soil Pre	sent? Yes No
Remarks:								
				4				
				4				
				4				
				∢				
				4				
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				*				

Project/Site: Song Sparrow Solar	City/County: hcv1/Ballard Sampling Date: 02-21-23
Applicant/Owner: Crearway Renewable	State: KTY Sampling Point: OZ-WAS-I
Investigator(s): M. Johnson M. Angel	Section, Township, Range:N /^
· ·	Local relief (concave, convex, none): Concave Slope (%): 2
	27.013.091 Long: -88.873248 Datum: DAD8304
24	
Soil Map Unit Name: <u>Fa</u>	NWI classification: N / A
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation, Soil, or Hydrology signification	antly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology natural	y problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ving sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Yes No Remarks:	is the dampied Area
07-W-07	t paired with
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap	
	ned Leaves (B9) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Aquatic Fa	
	sits (B15) (LRR U) Moss Trim Lines (B16) Sulfide Odor (C1) Dry-Season Water Table (C2)
	chizospheres on Living Roots (C3) Crayfish Burrows (C8)
	of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9)
	n Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck	Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Exp	lain in Remarks)FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inc	
	ches): 10:0
Saturation Present? Yes No Depth (includes capillary fringe)	ches): 3; Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial p	photos, previous inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

1	umbay of Dominant Chasics
2	umber of Dominant Species hat Are OBL, FACW, or FAC:
4	otal Number of Dominant pecies Across All Strata: (B)
5. 6. 7.	pecies Across All Strata: (B) ercent of Dominant Species
7	hat Are OBL, FACW, or FAC: 100 (A/B)
Sapling Stratum (Plot size: S.F.1)	revalence Index worksheet:
1.	Total % Cover of: Multiply by:
2.	BL species x 1 =
3.	ACW species x 2 =
4	ACULTORIST X 3 =
5.	ACU species x 4 =
Shrub Stratum (Plot size: 15 + 1) Shrub Stratum (Plot size: 15	IPL species x 5 = (A)
Total Cover	Column Totals: (A) (B)
Shrub Stratum (Plot size:	Prevalence Index = B/A =
1. Solitation (Flot size:	lydrophytic Vegetation Indicators: Dominance Test is >50%
2	Prevalence Index is ≤3.0 ¹
3. 4. 5. 6.	Prevalence index is ≤3.0 Problematic Hydrophytic Vegetation¹ (Explain)
4	Problematic Hydrophytic Vegetation (Explain)
5. 6. 7.	Indicators of hydric soil and wetland hydrology must e present, unless disturbed or problematic.
7	
Herb Stratum (Plot size:	Definitions of Vegetation Strata:
Herb Stratum (Plot size:	ree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
2.	7.6 cm) or larger in diameter at breast height (DBH).
2.	Sapling – Woody plants, excluding woody vines,
4	approximately 20 ft (6 m) or more in height and less han 3 in. (7.6 cm) DBH.
6.	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
7	Herb – All herbaceous (non-woody) plants, including
10	nerbaceous vines, regardless of size. Includes woody olants, except woody vines, less than approximately it (1 m) in height.
11	Noody vine – All woody vines, regardless of height.
20 = Total Cover	
Woody Vine Stratum (Plot size: 30f+) = Total Cover	_
1	
2. 3	
4	,
l ny	Hydrophytic
	Vegetation Present? Yes No
Remarks: (If observed, list morphological adaptations below).	

Color (i 2-1	4/3 10	% <u>Cc</u>		Feature					
		00 -	olor (moist)	%	Type ¹	_Loc ²		Remarks	
-18 101	<u> 25/1</u> 8						5:0		
		35 7.	5 412316	10	_C	M	SIC _		
		37	544275/	2 5		C	Sic		
		_		_					
ype: C=Concentration		ı, RM=Redu	ced Matrix, CS=	-Covered	or Coate	d Sand G		: PL=Pore Lining, M=Mat	
dric Soil Indicators:								roblematic Hydric Soils ³	:
_ Histosol (A1)	N	_	Polyvalue Beld					A9) (LRR O)	
_ Histic Epipedon (A2 _ Black Histic (A3)	.)	_	Thin Dark Surf Loamy Mucky					A10) (LRR S) rtic (F18) (outside MLRA	150A I
_ Hydrogen Sulfide (A	A4)	-	Løamy Gleyed			0,		podplain Soils (F19) (LRR	
Stratified Layers (A	•	L	Depleted Matr		-/			Bright Loamy Soils (F20)	., •, .
Organic Bodies (A6) _	Redox Dark S		6)		(MLRA 15	-	
5 cm Mucky Minera		T, U)	Depleted Dark				Red Parent I	Material (TF2)	
Muck Presence (A8			Redox Depres		3)			v Dark Surface (TF12) (LF	RR T, U
_ 1 cm Muck (A9) (LR	-		Mari (F10) (LR	-	/AN DA 45	41	Other (Expla	in in Remarks)	
Depleted Below DarThick Dark Surface	•	יי —	Depleted Ochr Iron-Manganes		-	-	T) 3Indicators	of hydrophytic vegetation	and
Coast Prairie Redox	. ,	. 150A) —	Umbric Surfac					ornydrophylic vegetallon lydrology must be present	
Sandy Mucky Miner			Delta Ochric (F			-,		sturbed or problematic.	'
Sandy Gleyed Matri			Reduced Verti			A, 150B)		,	
Sandy Redox (S5)			Piedmont Floo				•		
Stripped Matrix (S6)			Anomalous Bri	ight Loan	ny Soils (F	20) (MLR	A 149A, 153C, 153E))	
Dark Surface (S7) (I		J)							_
strictive Layer (if ob								/	
								1/	
	NA	_					Hydric Soil Prese	ent? Yes No	
Туре:	J/A N/A						Hydric Soil Prese	ent? Yes No	

Project/Site: SONG SPAZ POW) SOLAZ City/County: TALLA	PD COMNTY Sampling Date: Z/21/23
Applicant/Owner: Crear way Renewables	
Investigator(s): M JOHNSON M. ANGEL Section, Township, Ra	
Landform (hillslope, terrace, etc.): FLOOBPLAIN Local relief (concave, of	
Subregion (LRR or MLRA): LR RR Lat: 37.016900	
Soil Map Unit Name: Fa	NWI classification:/A
	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are	"Normal Circumstances" present? Yes No
Are: Vegetation, Soil, or Hydrology naturally problematic? (If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point I	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes Y No Is the Sampled within a Wetland Wetland Hydrology Present?	V
wetland point paired	90-M-09
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres along Living Roots	
Sediment Deposits (B2) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	¥ FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	y
	tland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:	
AREA RECENTLY BURNED	FARMING
KEEV KUU	r '
MTIVITIES ONGOING	
Fr. C.	
	3

Total Cover 20% of total cover: PA(W D Total Cover 20% of total cover: 20% of total cover:	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply by: OBL species FACW species FAC species FAC species FACU species Column Totals: Multiply by: (A/B With the provided species of the provided speci
Total Cover 20% of total cover: PA(W PA(W 20% of total Cover 20% of total cover: 20% of total cover:	That Are OBL, FACW, or FAC: (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
20% of total cover:	Total % Cover of: Multiply by: OBL species x 1 =
20% of total cover:	OBL species x 1 =
【② = Total Cover 20% of total cover: _ と、〇	FACW species x 2 =
【② = Total Cover 20% of total cover: _ と、〇	FACU species x 4 =
【② = Total Cover 20% of total cover: _ と。	UPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators:1- Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
【② = Total Cover 20% of total cover: _ と. ○	Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
【② = Total Cover 20% of total cover: _ と。	Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
L② = Total Cover 20% of total cover: _ こ。	Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%3 - Prevalence Index is ≤3.0¹
20% of total cover:	1- Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%3 - Prevalence Index is ≤3.0¹
	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
	3 - Prevalence Index is ≤3.0¹
	(_xpiaii)
	1
	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	Definitions of Five Vegetation Strata:
= Total Cover 20% of total cover:	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
	Woody vine All woody vines, regardless of height.
activity of total out of the same	
	In a control
	Hydrophytic Vegetation
	Present? Yes No
	= Total Cover 20% of total cover: = Total Cover 20% of total cover:

Depth	Matrix			Redox	Features	s			
inches)	Color (moist)			(moist)	%	Type ¹	_Loc ² _	Texture _	Remarks
0-1	6/3 104R	80	4/8	2.5412	20			SIL	
7-10	612 1018	80	418	2.54R	20			SIL	
								-	
		-							
					_	_			-
vpe: C=Cc	ncentration, D=Dep	letion, RM=R	educed	Matrix, MS=	Masked	Sand Gra	ains.	² Location:	PL=Pore Lining, M=Matrix.
	ndicators: (Applic								s for Problematic Hydric Soils ³ :
_ Histosol				olyvalue Beid			RR S. T. U		Muck (A9) (LRR O)
 -	ipedon (A2)			nin Dark Surf					Muck (A10) (LRR S)
_ Black His			Lo	amy Mucky	Mineral	(F1) (LRR		Reduc	ced Vertic (F18) (outside MLRA 150A,I
_ Hydroge	n Sulfide (A4)		_/Lo	amy Gleyed	Matrix (F2)		Piedm	nont Floodplain Soils (F19) (LRR P, S, 1
	Layers (A5)			epleted Matri					alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		_	edox Dark Su	•	•		•	RA 153B)
	cky Mineral (A7) (LF		_	epleted Dark		. ,		_	Parent Material (TF2)
	esence (A8) (LRR U ck (A9) (LRR P, T)	')	_	edox Depres arl (F10) (LR		o)			Shallow Dark Surface (TF12) (Explain in Remarks)
_	Below Dark Surfac	e (A11)		epleted Ochr		/MI RΔ 1!	51)	Other	(Explain in Remarks)
	rk Surface (A12)	O (/ 11 1)		n-Manganes	, ,	•	•	T) ³ Indi	cators of hydrophytic vegetation and
	airie Redox (A16) (I	VLRA 150A)		nbric Surfac					tland hydrology must be present,
_ Sandy M	ucky Mineral (S1) (I	LRR O, S)	De	elta Ochric (F	17) (ML	RA 151)	•	uni	less disturbed or problematic.
			Re	educed Verti	c (F18) (MLRA 15	0A, 150B)		
_ Sandy G	leyed Matrix (S4)								
_ Sandy R	edox (S5)			edmont Floo					
Sandy R	edox (S5) Matrix (S6)							19A) KA 149A, 1530	C, 153D)
_ Sandy R _ Stripped _ Dark Sur	edox (S5) Matrix (S6) face (S7) (LRR P, S								C, 153D)
Sandy Ro Stripped Dark Sur estrictive L	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):								C, 153D)
Sandy Ro Stripped Dark Sur estrictive L Type:	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
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Sandy R Stripped Dark Sur estrictive L Type:	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
_ Sandy R _ Stripped _ Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
_ Sandy R _ Stripped _ Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
_ Sandy R _ Stripped _ Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy R Stripped Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
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_ Sandy R _ Stripped _ Dark Sur estrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	
Sandy Roman Stripped Dark Surestrictive Lark Type:	edox (S5) Matrix (S6) face (S7) (LRR P, S ayer (if observed):							A 149A, 1530	

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation, Soil, or Hydrology significantly disturbed?	Project/Site: Source See 1550	Sala - City/C	County Warial B	allard s	ampling Date: 🛷 🛷 1 - ? 🤻	
Investigator(s):	Applicant/Owner: Class Charact P	enewahlee		State: VAY S	ampling Point: \$2~WA(~\	
Local relief (concave, convex, none): Slope (%): Local relief (concave, convex, none): Concave, convex, none; concave, convex, none; concave, convex, none; condended (%): Local relief (%): Local r						
Soli Map Unit Name: Fo NWI classification: J / A Are dimate / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are "Normal Circumstances" present? Yes No No Normal Circumstances" present? Yes No Normal Circumstances (explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Indicators: Wetland Hydrology Indicators: Burface Soil Cracks (B6) Aquatic Fauna (B13) Agail Mat Poposits (B1) Agail Mat or Crust (B4) Agail Mat or		~				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil, or Hydrology significantly disturbed?						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	Subregion (LRR or MLRA): LRR	Lat: 37.016	Q49 Long:			
Are Vegetation, Soil, or Hydrology, significantly disturbed?	Soil Map Unit Name: <u>Fa</u>			NWI classificati	on: / A	
Are Vegetation	Are climatic / hydrologic conditions on the site ty	pical for this time of year? Y				
Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Welland Hydrology Present? Welland Hydrology Indicators: Remarks: Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Surface Water (A2) Hydropen Sulface Water (A3) Man Deposits (B15) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Clark (B7) Clark (B8) Depth (inches): Depth (inches): Surface Water Present? Ves No Depth (inches): Surface Water Present? Ves No Depth (inches): Surface Water Present? Ves No Depth (inches): Surface Water Present? Ves No Depth (inches): Surface Water Present? Ves No Depth (inches): Surface Water Present? Ves No Depth (inches): Surface Raizer (A2) Wetland Hydrology Present? Ves No Depth (inches): Surface Water Present? Ves No Depth (inches): Surface Raizer (A2) Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:	Are Vegetation, Soil, or Hydrolog	gy significantly distur	bed? Are "Norma	l Circumstances" pre	sent? Yes V No	
Hydrophylic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Wetland Hydrology Indicators: Primary Indicators (minimum of two required) Surface Soil Cracks (B6) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Sediment Deposits (B2) Drift Deposits (B3) Agail Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Surface Water (A2) Depth (inches): Saturation Present? Yes No Wetland Hydrology Present? Yes No Depth (inches): Saturations, if available:	Are Vegetation, Soil, or Hydrolog	gy naturally problema	atic? (If needed,	explain any answers	in Remarks.)	
Hydric Soil Present? Yes No within a Wetland? Yes No No Within a Wetland? Yes No No Within a Wetland? Yes No No No No No No No No No No No No No	SUMMARY OF FINDINGS – Attach s	site map showing san	npling point location	ons, transects, i	mportant features, etc.	
Hydric Soil Present? Yes No within a Wetland? Yes No No Within a Wetland? Yes No No Within a Wetland? Yes No No No No No No No No No No No No No	Hydrophytic Vegetation Present? Yes	No_\	Is the Sampled Area			
Wetland Hydrology Present? Yes No Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Saturation (A3) Marl Deposits (B15) (LRR U) Sediment Deposits (B1) Driange Patterns (B16) Sediment Deposits (B3) Presence of Reduced Iron (C4) Adjad Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Iron Deposits (B5) Driange Patterns (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Crayfish Burrows (C8) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) FAC-Neutral Test (D5) Field Observations: Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Gescondary Indicators (minimum of two required) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Driange Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				Voc	No. /	
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Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) Marl Deposits (B15) (LRR U) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Caturation Present? Yes No Depth (inches):	02-W	1707				
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Surface Water (A1)	Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Crayfish Burrows (C8) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Shallow Aquitard (D3) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Saturation Present Ye	Primary Indicators (minimum of one is required	; check all that apply)		Surface Soil Cr	acks (B6)	
Saturation (A3)Marl Deposits (B15) (LRR U)Moss Trim Lines (B16)	Surface Water (A1)	Water-Stained Leave	s (B9)	Sparsely Veget	ated Concave Surface (B8)	
Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Depth (inches): Wetland Hydrology Present? Yes No	High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patte	rns (B10)	
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation (A3)	Marl Deposits (B15)	(LRR U)	Moss Trim Lines (B16)		
Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Ves No Depth (inches): Depth (inches): Ves No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Marks (B1)	Hydrogen Sulfide Od	or (C1)	Dry-Season Wa	ater Table (C2)	
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Surface Water Present? Yes No/ Depth (inches): Water Table Present? Yes No/ Depth (inches): Wetland Hydrology Present? Yes No/ Depth (inches): Wetland Hydrology Present? Yes No/ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Sediment Deposits (B2)	Oxidized Rhizospher	es on Living Roots (C3)	Crayfish Burrov	vs (C8)	
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Drift Deposits (B3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No/ Depth (inches): Water Table Present? Yes No/ Depth (inches): Saturation Present? Yes No/ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Recent Iron Reduction	on in Tilled Soils (C6)	Geomorphic Position (D2)		
Field Observations: Surface Water Present? Yes No/ Depth (inches): Water Table Present? Yes No/ Depth (inches): Saturation Present? Yes No/ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Thin Muck Surface (0	07)			
Surface Water Present? Yes No/ Depth (inches): Water Table Present? Yes No/ Depth (inches): Saturation Present? Yes No/ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rer	marks)	FAC-Neutral Te	est (D5)	
Water Table Present? Yes No/ Depth (inches): Saturation Present? Yes No/ Depth (inches): Wetland Hydrology Present? Yes No/ Depth (inches): Wetland Hydrology Present? Yes No/ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table Present? Yes No					
	(includes capillary fringe)				Yes No	
Remarks:	3-3-1		. , , ,			
	Remarks:					
					3	

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft) 1.	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
		matrice obe, trion, of trio.
2. N/A 3.		Total Number of Dominant Species Across All Strata: (B)
4.		
5.		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
	= Total Cover	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:\SF-})		OBL species x 1 =
1.		FACW species x 2 =
2. N/A		FAC species x 3 =
		FACU species x 4 =
3		UPL species x 5 =
4		l .
5		Column Totals: (A) (B)
6		Prevalence Index = B/A =
7		Hydrophytic Vegetation Indicators:
	= Total Cover	Dominance Test is >50%
Shrub Stratum (Plot size: 15 +4)		Prevalence Index is ≤3.01
		1
2. <u>N/A</u>		Problematic Hydrophytic Vegetation ¹ (Explain)
3		¹ Indicators of hydric soil and wetland hydrology must
4		be present, unless disturbed or problematic.
5		Definitions of Vegetation Strata:
7		
	= Total Cover	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: SP1)		(7.6 cm) or larger in diameter at breast height (DBH).
1. Pag protensis	90 V FICU	
· · · · · · · · · · · · · · · · · · ·		Sapling – Woody plants, excluding woody vines,
2		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3		
4		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5		approximately 3 to 20 ft (1 to 6 m) in neight.
6		Herb – All herbaceous (non-woody) plants, including
7		herbaceous vines, regardless of size. Includes woody
8		plants, except woody vines, less than approximately 3 ft (1 m) in height.
9		3 it (1 iii) iii neight.
10.		Woody vine – All woody vines, regardless of height.
11.		
12		
Woody Vine Stratum (Plot size: _ ろっらし)	= Total Cover	
11		
2. V/A		
3		
4		Hydrophytic
5		Vegetation
	= Total Cover	Present? Yes No
Remarks: (If observed, list morphological adaptations be	pelow).	

Depth	Matrix			x Feature			the absence of ir	
(inches)	Color (moist)		Color (moist)	%	_Type ¹	Loc2	Texture	Remarks
0-10	104R5/2	90	OYRS18	10		N	_5.c	
					_		1 = 1	
		=						
ype: C=C	oncentration, D=Depl	etion, RM=Re	duced Matrix, CS	S=Covere	d or Coate	d Sand Gr	ains. ² Locatio	n: PL=Pore Lining, M=Matrix.
ydric Soil	Indicators:						Indicators for F	Problematic Hydric Soils ³ :
Histosol	• •		Polyvalue Be					(A9) (LRR O)
	pipedon (A2)	-	Thin Dark Su					(A10) (LRR S)
	istic (A3) en Sulfide (A4)	-	Loamy Muck			0)		ertic (F18) (outside MLRA 150A, £ Ioodplain Soils (F19) (LRR P, S, T
	d Layers (A5)		Depleted Ma		(1 2)			Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,	T, U)	Redox Dark		-6)		(MLRA 1	- , , ,
5 cm Mu	icky Mineral (A7) (LR	R P, T, U)	Depleted Dar	k Surface	(F7)		Red Parent	Material (TF2)
	resence (A8) (LRR U)	_	Redox Depre	•	8)			w Dark Surface (TF12) (LRR T, U
	ıck (A9) (LRR P, T)	-	Marl (F10) (L	-			Other (Expl	ain in Remarks)
	d Below Dark Surface ark Surface (A12)	(A11) _	Depleted Oct	. ,	-	-	T) ³ Indicators	of budrophytic regetation and
	rairie Redox (A16) (M	Ι R Δ 150Δ\	Iron-Mangan Umbric Surfa				•	of hydrophytic vegetation and hydrology must be present,
	Mucky Mineral (S1) (L		Delta Ochric			-,		isturbed or problematic.
	Bleyed Matrix (S4)		Reduced Ver			0A, 150B)		
	Redox (S5)	_	Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)	
	Matrix (S6)	-	Anomalous B	right Loa	my Soils (I	²⁰) (MLR	A 149A, 153C, 153	D)
	rface (S7) (LRR P, S,	T, U)						
	Layer (if observed):	. 1						
Type:	Comparte	0						
	ches):		-				Hydric Soil Pres	ent? Yes No
Depth (in	51100).							
Depth (in								
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Project/Site: Song Sparront Solar City/Con	unty: Yevi / Ballard Sampling Date: 22-21-23
	State: 📉 Sampling Point: 🗷 ≥ - المحلف
Investigator(s): M Johnson, M Angel Section	
Landform (hillslope, terrace, etc.): Local re	
Subregion (LRR or MLRA): LTP Lat: 37.01694	
_	
Soil Map Unit Name: Fa	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed	d? Are "Normal Circumstances" present? Yes V No
Are Vegetation, Soil, or Hydrology naturally problematic	c? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing samp	ling point locations, transects, important features, etc.
Ludric Coil Procent?	s the Sampled Area within a Wetland? Yes No
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) Mari Deposits (B15) (LF	
Water Marks (B1) Hydrogen Sulfide Odor Sediment Deposits (B2) Oxidized Rhizospheres	· ·
Oxidized Nilizospheres Drift Deposits (B3) Presence of Reduced Ir	
Algal Mat or Crust (B4) Recent Iron Reduction i	
Iron Deposits (B5) Thin Muck Surface (C7)	—
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	ous inspections), if available:
Domarko	
Remarks:	

VEGETATION – Use scientific names of plants		Barrier Took washabari
Tree Stratum (Plot size: 305 t	Absolute Dominant Indicator % Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1		Total Number of Dominant
11/1		Species Across All Strata: (B)
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6 7		Prevalence Index worksheet:
	= Total Cover	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 1544)		OBL species x 1 =
1		FACW species x 2 =
2		FAC species x 3 =
3		FACU species x 4 =
4. N/A		UPL species x 5 =
5		Column Totals: (A) (B)
6		Prevalence Index = B/A =
· ·	= Total Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15F4)	- Total Cover	Dominance Test is >50%
1.		Prevalence Index is ≤3.0 ¹
2.		Problematic Hydrophytic Vegetation ¹ (Explain)
3. 4.		¹ Indicators of hydric soil and wetland hydrology must
4		be present, unless disturbed or problematic.
6		Definitions of Vegetation Strata:
7		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:)	= Total Cover	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1 Curdamine hivarda	30 Vitacu	Sapling – Woody plants, excluding woody vines,
2. Laminum amplementue 3.	10 / FACE	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6		Herb – All herbaceous (non-woody) plants, including
7 8.		herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately
9.		3 ft (1 m) in height.
10		Woody vine – All woody vines, regardless of height.
11	·	
12	140	1
Woody Vine Stratum (Plot size: 30F)	TO = Total Cover	
1		
3N/A		
4		
5.		Hydrophytic Vegetation
	= Total Cover	Present? Yes No
Remarks: (If observed, list morphological adaptations be	elow).	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Deplete Ining, M=Matrix. Indicators for Problematic Hydric Soils ³ : Indicators for	Depth	Matrix		Redox	x Feature	S			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Pydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Sem Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F6) Mari (F10) (LRR U) 1 cm Muck (A9) (LRR Q) Reduced Vertic (F18) (outside MLRA 150A, Reduced Vertic (F18) (outside MLRA 150B, Reduced Vertic (F18) (outside MLRA 150B, Reduced Vertic (F18) (outside MLRA 150A, Reduced Vertic (F18) (outside MLRA 150B, Reduced Vertic (F18) (outside MLRA 150A, Reduce	(inches)	Color (moist)			%		Loc²	Texture	Remarks
Histosol (A1)	0-16	10 YIZ 513	75 1	04R6/8	35			_ S ,	
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	ydric Soil I Histosol Histic Ep Black His Hydroge Stratified Organic 5 cm Mu Muck Pre 1 cm Mu Depleted Thick Da Coast Pr	ndicators: (A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) Bodies (A6) (LRR P, cky Mineral (A7) (LR esence (A8) (LRR U) ck (A9) (LRR P, T) Below Dark Surface rk Surface (A12) airie Redox (A16) (M ucky Mineral (S1) (L	T, U) R P, T, U) (A11)	Polyvalue Bel Thin Dark Sul Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (Li Depleted Och Iron-Mangane Umbric Surfar	low Surfa rface (S9) / Mineral d Matrix (rix (F3) Surface (F k Surface ssions (Fi RR U) rric (F11) ese Massi ce (F13) ((F17) (ML	ce (S8) (L (LRR S, (F1) (LRR F2) (6) (F7) 3) (MLRA 15) es (F12) (I LRR P, T,	RR S, T, U T, U) O) 51) LRR O, P,	Indicators for I) 1 cm Mucl 2 cm Mucl Reduced \ Piedmont Anomalou (MLRA Red Parer Very Shall Other (Exp	Problematic Hydric Soils ³ : k (A9) (LRR O) k (A10) (LRR S) Vertic (F18) (outside MLRA 150A,E Floodplain Soils (F19) (LRR P, S, T s Bright Loamy Soils (F20) 153B) nt Material (TF2) low Dark Surface (TF12) (LRR T, U) plain in Remarks) rs of hydrophytic vegetation and d hydrology must be present,
			T, U)						
Dark Surface (S7) (LRR P, S, T, U)	Туре:	grave1		-				Hydric Soil Pre	esent? Yes No
Restrictive Layer (if observed): Type: Grave	Remarks:							,	
Clestrictive Layer (if observed): Type: Grave Depth (inches): I									
Depth (inches): C									
Depth (inches): C									
Depth (inches): C									
Depth (inches): Color Color									
Depth (inches): C									

Project/Site: Song Sparrow Solar City/County:	Kevil / Ballard Sampling Date: 02/23/2
Applicant/Owner: Clearway Renewables	State: 44 Sampling Point: 02-645
Investigator(s): M. Johnson, M. Angel Section, Town	
Landform (hillslope, terrace, etc.): depression Local relief (co	
	14 Long: 88 . 907444 Datum: NAD831
Soil Map Unit Name: LPD 3	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling	point locations, transects, important features, etc.
Hydric Soil Present? Yes // No	Sampled Area a Wetland? YesNo
Remarks:	
Wetland point pared	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres along Livi	
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Sc	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes/ Depth (inches):/	
Water Table Present? Yes No/Depth (inches):	/
Saturation Present? Yes No/ Depth (inches):	_ Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins	pections), if available:
Remarks:	

7.0	Absolute Dominant Indicate	
ree Stratum (Plot size: 30-F)	% Cover Species? Status	
-		That Are OBL, FACW, or FAC:
NIA		Total Number of Dominant
		Species Across All Strata:
		Percent of Dominant Species
		That Are OBL, FACW, or FAC:
	= Total Cover	Prevalence Index worksheet:
50% of total cover:	20% of total cover:	Total % Cover of: Multiply by:
apling Stratum (Plot size: 157)	20% of total cover	OBL species x 1 =
(otoles		FACW species x 2 =
		FAC species x 3 =
NIA		FACU species x 4 =
		UPL species x 5 =
		Column Totals: (A)
		Providence Index DVA
	= Total Cover	Prevalence Index = B/A =
50% of total cover:	20% of total cover:	Hydrophytic Vegetation Indicators:
rub Stratum (Plot size: \SF+)		1 Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.0 ¹
		Problematic Hydrophytic Vegetation ¹ (Explain)
PIA		Indicators of hydric soil and wetland hydrology must
	= Total Cover	
50% of total cover:	20% of total cover:	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in
rb Stratum (Plot size: 6ft)		(7.6 cm) or larger in diameter at breast height (DBH
Parkera gallbela	V 60 one	Sapling – Woody plants, excluding woody vines,
Agrostis Stolonisera	V 20 FHG	p approximately 20 π (6 m) or more in neight and less
		than 3 in. (7.6 cm) DBH.
		Shrub Woody plants, excluding woody vines,
		approximately 3 to 20 ft (1 to 6 m) in height.
		Herb – All herbaceous (non-woody) plants, includin
		herbaceous vines, regardless of size, and woody
		 plants, except woody vines, less than approximately 3 ft (1 m) in height.
		1
		Woody vine – All woody vines, regardless of heigh
42	= Total Cover	
50% of total cover:	20% of total cover: 16.0	2
ody Vine Stratum (Plot size: 30 ft)		
1175		_
N/A		_1
		-1
		_1
		- Hydrophytic
	= Total Cover	Vegetation Present? Yes

Color (moist) % Color (moist) % Type Loc² Texture Remarks O-9 10 12 512 90 10 40 38 16 C M S.C 9-11 2.5 4(8 512 85 7.5 4(2 3/3 1.5 C M 9,7) Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Plug C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=C
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. C
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. A
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Black Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Strittled Layers (A5) Organic Bodies (A6) (LRR P, T, U) 1 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A) Serial Mucky Mineral (A7) (LRR P, T, U) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Deriv (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sardy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Sardy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) Muck Presence (A8) (LRR P, T, U) Depleted Ochric (F11) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Popth (inches): Hydric Soil Present? Yes No
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) setrictive Layer (if observed): Type:
emarks:

Summary OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc Hydrophytic Vegetation Present? Yes No Yes No Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of two required) Surface Water (A1) Aquatic Fauna (813) Surface Soil Cracks (86) Surface Water (A1) Aquatic Fauna (813) Saturation (A3) Saturation (A3) Hydrogons yatiface done (C1) Christ (B1) Drift Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C5) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C5) Saturation Visible on Aerial Imagery (C9) Jinundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Surface Water Present? Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) Drinancy Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) Drinancy Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) Drinancy Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Drinancy Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Drinancy Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Drinancy Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) Drinancy Indicators (Indicators	il Map Unit Name: P3 e climatic / hydrologic conditions on the site typical for this time of year? e Vegetation, Soil, or Hydrology significantly dis	turbed? Are "Norma	NWI classification:/A (If no, explain in Remarks.) I Circumstances" present? Yes No explain any answers in Remarks.)
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	lydrophytic Vegetation Present? Yes No Yes No Vetland Hydrology Present? Yes No No Vetland Hydrology Present?	is the Sampled Area	./
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRN U) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Other (Explain in Remarks) Mater-Stained Leaves (B9) Pepth (inches): Surface Vaiter (Minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Pepth (inches): Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation (C4) Saturation Visible on Aerial Imagery (C9) Saturatio	upland poin	+ paired	80-W-50 NEW
Surface Soil Cracks (B6) Surface Water (A1)	/DROLOGY		
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Byarsely Vegetated Concave Surface (B8) Aduatic Fauna (B13) Byarsely Vegetated Concave Surface (B8) Marl Deposits (B15) (LRiv U) Drainage Patterns (B10) Moss Trim Lines (B16) Dray-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Agenorphic Position (D2) Iron Deposits (B3) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Teld Observations: Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Surface Water Autorior (C1) Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation V	/etland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Surface Water (A1)			
High Water Table (A2) Marl Deposits (B15) (LRN U) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Depth (inches): Saturation Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Depth (inches): Settland Hydrology Present? Yes No Settland			
Saturation (A3)		.Rik U)	
Water Marks (B1)			
Sediment Deposits (B2)			
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)			
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Sphagnum moss (D8) (LRR T, U)		` '	
Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Sphagnum moss (D8) (LRR T, U)		` '	
Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)		•	
Gurface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Security of the present includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Nater Table Present? Yes No Depth (inches): Baturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No No Depth (inches): No No No No			
Nater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):	urface Water Present? Yes No Depth (inches):		
Saturation Present? Yes NoDepth (inches): Wetland Hydrology Present? Yes NoNoNoNo			
includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Wetland H	lydrology Present? Ves Nd
	ncludes capillary fringe)		
Remarks:	escribe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if avail	ilable:
Remarks:			
	emarks:		
			(1)

1.0	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30F) 1.	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. 3. \(\mathcal{L}\) / \(\mathcal{A}\)		Total Number of Dominant Species Across All Strata: (B)
4 5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		Droviniones Index weeksheets
	= Total Cover	Prevalence Index worksheet:
	20% of total cover:	OBL species x1 =
Sapling Stratum (Plot size: 15 F+)		FACW species x 2 =
		FAC species x3 =
2		
3NA		FACU species x 4 =
4		UPL species x 5 =
5		Column Totals: (A) (B)
6		Prevalence Index = B/A =
	= Total Cover	Hydrophytic Vegetation Indicators:
	20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15++)		2 - Dominance Test is >50%
1,		3 - Prevalence Index is ≤3.01
2		Problematic Hydrophytic Vegetation ¹ (Explain)
4.		¹ Indicators of hydric soil and wetland hydrology must
5.		be present, unless disturbed or problematic.
6		Definitions of Five Vegetation Strata:
	= Total Cover	
	20% of total cover:	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5P+)	,	(7.6 cm) or larger in diameter at breast height (DBH).
1. Carolamine hirsuta	50 V FACU	Sapling – Woody plants, excluding woody vines,
2 (annum anoloxicalus	- 20 V FACU	approximately 20 ft (6 m) or more in height and less
3. Avgostic StoloniFors		than 3 in. (7.6 cm) DBH.
4		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6		Herb – All herbaceous (non-woody) plants, including
7		herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately
8		3 ft (1 m) in height.
9		Woody vine - All woody vines, regardless of height.
10		Troday vine 7 in woody vines; regardless of fielding.
11		
4	80 = Total Cover	
50% of total cover:	20% of total cover: 16 · 8	
Woody Vine Stratum (Plot size: ろうチャー)		
1		
2		
3		
4		l'
5		Hydrophytic
	= Total Cover	Vegetation
	20% of total cover:	Present? Yes No
50% of total cover:		

andform (hillslope, terrace, etc.): Local r	sNo(NWI classification:
re Vegetation, Soil, or Hydrology naturally problema	i e	xplain any answers in Remarks.)
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Hydric Soil Present? Hydrology Present? Hydrology Present? Hydrology Present? Hydrology Present?	Is the Sampled Area	Yes No
Remarks: Wetland poi	nt pain	ed with -w-09
YDROLOGY		
Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) — Aquatic Fauna (B13) High Water Table (A2) — Marl Deposits (B15) (LRF) Saturation (A3) — Hydrogen Sulfide Odor (C) Water Marks (B1) — Oxidized Rhizospheres all Sediment Deposits (B2) — Presence of Reduced Iron Drift Deposits (B3) — Recent Iron Reduction in Algal Mat or Crust (B4) — Thin Muck Surface (C7) Iron Deposits (B5) — Other (Explain in Remark Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations:	U) 1) ong Living Roots (C3) (C4) Filled Soils (C6)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre		lydrology Present? Yes No
Remarks:		

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

Tree Stratum (Plot size: 30-F+)	Absolute Dominant Indicator % Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
NYA		Total Number of Dominant Species Across All Strata: (B)
		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/E
,	= Total Cover	Prevalence Index worksheet:
50% of total cover: Sapling Stratum (Plot size:1 5 F \rightarrow)	20% of total cover:	
·		FACW species x 2 = FAC species x 3 =
N/A		FACU species x 4 = UPL species x 5 =
		Column Totals: (A) (B
	= Total Cover	Prevalence Index = B/A =
50% of total cover:	20% of total cover:	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
hrub Stratum (Plot size: 15++)		2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.01
NA		Problematic Hydrophytic Vegetation ¹ (Explain)
		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		Definitions of Five Vegetation Strata:
	= Total Cover 20% of total cover:	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Panicum dichotimflere		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
·		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody
		plants, except woody vines, less than approximately 3 ft (1 m) in height.
0		Woody vine - All woody vines, regardless of height.
1	= Total Cover	
50% of total cover: Noody Vine Stratum (Plot size:ろりチー)	20% of total cover:	
V		
N/A		
l		
5		Hydrophytic
50% of total cover	= Total Cover 20% of total cover:	Present? Yes No
30 /8 UT total cover		

Depth	cription: (Describe	to the dept		x Features		0. 00		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	_Type ¹	_Loc ² _	Texture	Remarks
-1(1048812	<u>80</u>	DYR	618	<u></u>	<u>~</u>	8.0	
Hydric Soil Histoso Histic E Black F Hydrog Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Coast F Sandy Sandy Strippe	pipedon (A2) distic (A3) en Sulfide (A4) d Layers (A5) c Bodies (A6) (LRR P) ucky Mineral (A7) (LR dresence (A8) (LRR P, T) d Below Dark Surface oark Surface (A12) Prairie Redox (A16) (I Mucky Mineral (S1) (I Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	, T, U) RR P, T, U)) e (A11) MLRA 150A RR O, S)	RRs, unless other Polyvalue B Thin Dark S Loamy Mucl Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr Marl (F10) (I Depleted Oc Iron-Mangar Delta Ochric Reduced Ve Piedmont FI	erwise note elow Surface (S9) ky Mineral e ed Matrix (atrix (F3) Surface (F ark Surface essions (F6 LRR U) chric (F11) nese Masse ace (F13) (c: (F17) (ML ertic (F18) (loodplain S	ed.) ce (S8) (L (LRR S, (F1) (LRR F2) 6) (F7) 8) (MLRA 1: es (F12) (LRR P, T RA 151) MLRA 15 oils (F19)	RR S, T, U) T, U) t O) S1) LRR O, P, T , U) (MLRA 148	Indicators for 1 cm Muc 2 cm Muc Reduced Piedmont Anomalou (MLRA Red Pare Very Shal Other (Ex	nt Material (TF2) llow Dark Surface (TF12) plain in Remarks) ors of hydrophytic vegetation and d hydrology must be present, disturbed or problematic.
Restrictive	urface (S7) (LRR P, S Layer (if observed):	- 1					Hydric Soil Pr	esent? Yes No No

Project/Site: Social So	Section, Township, Range: Local relief (concave, convex,	State: KY Since State: KY Since State: KY Since State: Since State: Stat	Datum: NAD 83 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 84 KV FI. Datum: NAD 85 KV FI. Datum: NAD 85 KV FI. Datum: NAD 86 KV FI.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Ves	is the Sampled Area within a Wetland?	Yes	No
Remarks:	+ paired	ntin	@ 02-W-09
LIVEDOI ACV			
HYDROLOGY		Secondary Indicator	s (minimum of two required)
Wetland Hydrology Indicators:	1	Surface Soil Cr	The second secon
Primary Indicators (minimum of one is required; check all that apply			ated Concave Surface (B8)
Surface Water (A1) Aquatic Fauna (B High Water Table (A2) Marl Deposits (B1		Drainage Patte	
High Water Table (A2) Marl Deposits (B1 Saturation (A3) Hydrogen Sulfide		Moss Trim Line	
	heres along Living Roots (C3)	Dry-Season Wa	· · ·
		Crayfish Burrow	
	ection in Tilled Soils (C6)		ole on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		Geomorphic Po	
Iron Deposits (B5) Other (Explain in		Shallow Aquita	· ·
Inundation Visible on Aerial Imagery (B7)	rtomarko)	FAC-Neutral Te	
Water-Stained Leaves (B9)		Sphagnum mos	` '
Field Observations:		<u> </u>	(2 1) (2 1) (2 1)
Surface Water Present? Yes No Depth (inche	ie).		
	. —	Hydrology Present?	Yes No
Saturation Present? Yes No Depth (inche (includes capillary fringe)	s): vvetiand	nydrology Fresenti	1es No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if av	ailable:	
Remarks:			
			1
			0 1

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

	Absolute Dominant Indicator	
Tree Stratum (Plot size: 30+1-) 1	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2 3		Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		
	= Total Cover	Prevalence Index worksheet:
50% of total cover:	20% of total cover:	Total % Cover of:Multiply by:
Sapling Stratum (Plot size: 15+8)		OBL species x 1 =
1.		FACW species x 2 =
2. N/A		FAC species x 3 =
3.		FACU species x 4 =
4.		UPL species x 5 =
5,		Column Totals: (A) (B)
6		Prevalence index = B/A =
	= Total Cover	Hydrophytic Vegetation Indicators:
	20% of total cover:	
Shrub Stratum (Plot size: し S チ ユ)		2 - Dominance Test is >50%
1		3 - Prevalence Index is ≤3.0 ¹
2		Problematic Hydrophytic Vegetation ¹ (Explain)
3. N/A		
4		Indicators of hydric soil and wetland hydrology must
5		be present, unless disturbed or problematic.
6		Definitions of Five Vegetation Strata:
	= Total Cover	Tree - Woody plants, excluding woody vines,
	20% of total cover:	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 52+)	- / -	(7.6 cm) or larger in diameter at breast height (DBH).
Stellaria medica		
2. Tea mays	10 V UPL	
3. Camimum amplexamule	S UPL	<u>.</u>
4 5.		Shrub – Woody plants, excluding woody viries, approximately 3 to 20 ft (1 to 6 m) in height.
6.		Herb - All herbaceous (non-woody) plants, including
7		herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately
8.		3 ft (1 m) in height.
9.		
10.		Woody vine - All woody vines, regardless of height.
11.		
	20 = Total Cover	
50% of total cover: 10	20% of total cover:	
Woody Vine Stratum (Plot size: 30+1)		
1		_
2.		_
3. N/A		_
4.		
5		- Hydrophytic
	= Total Cover	Veretation
		Present? Yes No
50% of total cover:	20% of total cover:	

Depth	cription: (Describe to Matrix	cop.		x Feature				
(inches)	Color (moist)	%	Color (moist)		Type ¹	_Loc ²	Texture	Remarks
0-14	10412 S/3	100					8.0	
				-	_	_		
				-				
						1		
_								
	-			-		-		
								V (2) T (2) T (2) T (3) T (4) T
Type: C=C	oncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Maske	d Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all I						or Problematic Hydric Soils ³ :
Histosol	I (A1)		Polyvalue B	elow Surfa	ice (S8) (L	.RR S, T, U		ıck (A9) (LRR O)
Histic E	pipedon (A2)		Thin Dark S	urface (S9) (LRR S,	T, U)		uck (A10) (LRR S)
Black H	istic (A3)		Loamy Mucl			₹ 0)		d Vertic (F18) (outside MLRA 150A,B
	en Sulfide (A4)		Loamy Gley		(F2)			nt Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma					ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,		Redox Dark				•	A 153B) rent Material (TF2)
	ucky Mineral (A7) (LR		Depleted Da					allow Dark Surface (TF12)
_	resence (A8) (LRR U)	ı	Redox Depr Marl (F10) (•	0)			Explain in Remarks)
	uck (A9) (LRR P, T)	(844)	Depleted O		/MI RA 1	51)	01/10/ (2	Explain in Normania)
	d Below Dark Surface ark Surface (A12)	(A11)	Iron-Mangai				T) ³ Indica	tors of hydrophytic vegetation and
	Prairie Redox (A16) (M	II RA 150 <i>4</i>					,	and hydrology must be present,
	Mucky Mineral (S1) (L		Delta Ochrid		-	, -,	unles	ss disturbed or problematic.
	Gleyed Matrix (S4)	.u. 0, 0,	Reduced Ve			50A, 150B)		
	Redox (S5)		Piedmont Fl	oodplain	Soils (F19)	(MLRA 14	9A)	
	• •				mu Caila	COO (MILE)	A 149A, 153C,	153D)
Stripped	d Matrix (S6)		Anomalous	Bright Loa	illiy Julis i	(CZU) (INILIC	A 199A, 1990,	1330)
	d Matrix (S6) urface (S7) (LRR P, S	, T, U)	Anomalous	Bright Loa	iniy Sulis i	(F20) (MILK	A 148A, 1000,	1000)
Dark Su	urface (S7) (LRR P, S		Anomalous	Bright Loa	iniy Sulis i	(F20) (WILK	A 193A, 1350,	1330)
Dark Su Restrictive	TT1 - 10 TT		Anomalous	Bright Loa	iniy Solis ((F20) (MILK	A 143A, 1300,	
Dark Su Restrictive Type:	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny sons ((F20) (MLR	Hydric Soil F	
Dark Su Restrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Solis ((FZO) (MILK		
Dark Su Restrictive Type:	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	arry Solis ((FZO) (MILK		
Dark Su Restrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	imy Sulls ((FZO) (MER		
Dark Su Restrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	imy Sulis i	(F20) (MLK		
Dark Su Restrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	imy Suis i	(FZU) (MLK		
Dark Su Restrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	imy Suis i	(PZU) (WILK		
Dark Su Restrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	imy Suis i	(PZU) (WILK		
Dark Sure Destrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((FZU) (MLK		. ,
Dark Sure Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((PZU) (WILK		
Dark Sure Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	my Suis ((PZU) (MILK		. ,
Dark Sure Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((FZU) (MILK		
Dark Su Restrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((PZU) (WILK		
Dark Sure Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((PZU) (WILK		
Dark Sure Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((FZU) (MILK		
Dark Sure Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((PZU) (WILK		
Dark Sure Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((FZU) (MILK		
Dark Sure Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((FZU) (MILK		
Dark Sure Destrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((FZU) (MILK		
Dark Su Restrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((FZU) (MILK		. ,
Dark Su Restrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((FZU) (MILK		. ,
Dark Su Restrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((FZU) (MILK		
Dark Su Restrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):			Bright Loa	iny Suis ((FZU) (MILK		
Dark Sure Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):		Anomalous	Bright Loa	iny Suis ((FZU) (MILK		
Dark Su testrictive Type: Depth (in	urface (\$7) (LRR P, \$ Layer (if observed):			Bright Loa	iny Suis ((FZU) (MILK		

Project/Site: Sance Sparrow Solar	City/County: Levil Ballard Sampling Date: 02-24-23
	State: 44 Sampling Point: 02- WAS
Investigator(s): M. Jannson, M. Angel	
	Local relief (concave, convex, none): Slope (%):
	1 037736 Long: -88 .962122 Datum: NAQ8
Soil Map Unit Name: <u>L。C3</u>	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	_
Are Vegetation, Soil, or Hydrology significar	ntly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes	
Remarks:	
Wegland Fork	it paired with 02-w-013
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	
Surface Water (A1) Aquatic Fauna (
High Water Table (A2) Marl Deposits (B	
Saturation (A3) Hydrogen Sulfid Oxidized Rhizos	e Odor (C1) Moss Trim Lines (B16) spheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Rec	
	fuction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa	
Iron Deposits (B5) Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	✓ FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inch	es):
Water Table Present? Yes No Depth (inch	· ———
Saturation Present? Yes No Depth (inch	es): Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks:	

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

Tree Stratum (Plot size: 30-4)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. Acer negundo	1015 V FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Acer sarcharium	TO FAC	Total Number of Dominant Species Across All Strata: (B)
4.		2 1 (2 1 12 12 12
5		That Are OBL, FACW, or FAC: (A/B)
6	25 = Total Cover	Prevalence Index worksheet:
(17		Total % Cover of: Multiply by:
	5 20% of total cover:	OBL species x 1 =
Sapling Stratum (Plot size: \\5f+\)		FACW species x 2 =
		FAC species x 3 =
2. 3. V/A		FACU species x 4 =
4.		UPL species x 5 =
5.		Column Totals: (A) (B)
6		Prevalence Index = B/A =
	= Total Cover	Hydrophytic Vegetation Indicators:
	20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:15-F)		2 - Dominance Test is >50%
1.		3 - Prevalence Index is ≤3.0¹
2		Problematic Hydrophytic Vegetation ¹ (Explain)
3. NA		1
4		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5 6		Definitions of Five Vegetation Strata:
0	= Total Cover	
50% of total cover:	20% of total cover:	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5++)		(7.6 cm) or larger in diameter at breast height (DBH).
1 Elymus riparius	10 FACY	Sapling – Woody plants, excluding woody vines,
2. Carex frankii	S OBL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3		
4		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5		
6		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
7 8		plants, except woody vines, less than approximately 3 ft (1 m) in height.
9.		
10		Woody vine – All woody vines, regardless of height.
11.		
	= Total Cover	
	5 20% of total cover: 3 0	
Woody Vine Stratum (Plot size: 3054)		
1		
2		
3. <u>\(\au/\L</u>		
4		
5	= Total Cover	Hydrophytic Vegetation
50% of total cover	20% of total cover:	Present? Yes No
Remarks: (If observed, list morphological adaptations b		
The second of the morphological adaptations a		

epth	Matrix			Features				
inches)	Color (moist)		Color (moist)	_%_	Type'	_Loc2	Texture	Remarks
0-8	104 B 5/2		040.61	10	<u>e</u>	<u> </u>	Sic	
3-18	1041242	90	0412613	8	C		S.C	
		3	10412 Z/	22	<u></u>		S.C	
ype: C=Co	oncentration, D=Depl	etion, RM=Reable to all LR	educed Matrix, MS	=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
_ Histosol		abic to an Er	Polyvalue Beld			RR S. T. L		ick (A9) (LRR O)
	oipedon (A2)		Thin Dark Sur				-	ck (A10) (LRR S)
	stic (A3)		Loamy Mucky	Mineral	(F1) (LRR	(O)		Vertic (F18) (outside MLRA 150A,B
_ , ,	n Sulfide (A4)		Loamy Gleyed		F2)			nt Floodplain Soils (F19) (LRR P, S, T)
_	l Layers (A5)	T 10	Depleted Matr Redox Dark S		·6)			ous Bright Loamy Soils (F20) A 153B)
	Bodies (A6) (LRR P, ucky Mineral (A7) (LR		Depleted Dark	-			-	ent Material (TF2)
	esence (A8) (LRR U)		Redox Depres			-		allow Dark Surface (TF12)
_	ick (A9) (LRR P, T)		Marl (F10) (LF				Other (E	xplain in Remarks)
-	d Below Dark Surface	e (A11)	Depleted Och				- 3, ,,	
	ark Surface (A12)	II DA 450A\	Iron-Mangane Umbric Surface				•	tors of hydrophytic vegetation and nd hydrology must be present,
	rairie Redox (A16) (N lucky Mineral (S1) (L		Delta Ochric (• , ,		, 0,		s disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Vert			0A, 150B)		
	Redox (S5)		Piedmont Floo					
	Matrix (S6)		Anomalous Br	ight Loar	my Soils (F20) (MLR	RA 149A, 153C, 1	153D)
	rface (S7) (LRR P, S							
	Layer (if observed):							/
Type: Depth (in	43/4		-				Hydric Soil P	resent? Yes No
emarks:	cries).						Tiyano com:	

Project/Site: Sona Sparrow S	City/County: Vo	evil 18a	Mard Samplin	g Date: 07-24-23
14 . 4	enewables		State: KY Sampling	
Investigator(s): M Jahnson M. A.			NIA	,
Landform (hillslope, terrace, etc.):	V 1			Clana (0/).
			-	
	Lat: <u>37.03768</u> 2	Long:		
Soil Map Unit Name: LoC3			NWI classification:	NA
Are climatic / hydrologic conditions on the site typical	al for this time of year? Yes	No 1	If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal	Circumstances" present?	Yes No
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, e	xplain any answers in Rem	arks.)
SUMMARY OF FINDINGS - Attach site	map showing sampling po	oint locatio	ns, transects, impor	tant features, etc.
Hydrophytic Vegetation Present? Yes	No /			
	No Is the Sa	mpled Area		
Wetland Hydrology Present? Yes	within a t	Wetland?	Yes No	
Remarks:				
upland pe	int faired,	A CARLANT	02-11-01	5
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (mini	
Primary Indicators (minimum of one is required; ch			Surface Soil Cracks (B	
Surface Water (A1)	Water-Stained Leaves (B9)		Sparsely Vegetated Co	
	Aquatic Fauna (B13)		Drainage Patterns (B1	
	Marl Deposits (B15) (LRR U)		Moss Trim Lines (B16)	
	Hydrogen Sulfide Odor (C1)	D ((00)	Dry-Season Water Tab	
	Oxidized Rhizospheres on Living	g Roots (C3)	Crayfish Burrows (C8)	
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)Recent Iron Reduction in Tilled S	Poile (CE)	Saturation Visible on A	
Iron Deposits (B5)	Thin Muck Surface (C7)		Geomorphic Position (Shallow Aquitard (D3)	D2)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes No				
	Depth (inches):			
Saturation Present? Yes No	Depth (inches):	Wetland Hy	ydrology Present? Yes	No L
(includes capillary fringe) Describe Recorded Data (stream gauge, monitorin				
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous inspe	ctions), if avail	able:	
Domowko				
Remarks:				
				- 1

Tree Stratum (Plot size: 3054) 1. Prunus Serantina 2. Acer rubrum 3. Quercus Faircus 4	30	Species?	Status WPC FAC WPC FAC Were	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A =
7			-	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: S+F+)		= Total Cov	er	Dominance Test is >50%
1. Rosa minitiations 2. 3. 4.		\equiv	\equiv	Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6				Definitions of Vegetation Strata:
7	5	= Total Cov	FACEN	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1			=	Hydrophytic Vegetation Present? Yes No
Remarks: (If observed, list morphological adaptations bel		= Total Cov	/er	Present? Yes No

Depth	cription: (Describe t Matrix			x Features				
(inches)	Color (moist)	%C	olor (moist)	%	Type ¹	Loc2	Texture	Remarks
0-18	10 yr 5/3	90 10	Y 25/B	10		M	_S, c	
ydric Soil Histosc Histic E Black H Hydrog Stratific Organic	Concentration, D=Depl Indicators: of (A1) Epipedon (A2) distic (A3) en Sulfide (A4) ed Layers (A5) c Bodies (A6) (LRR P,		uced Matrix, CS Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mate	low Surfac rface (S9) y Mineral o d Matrix (drix (F3) Surface (F	ce (S8) (L (LRR S, (F1) (LRR F2)	RR S, T, L T, U)	Indicators for J) 1 cm Muck 2 cm Muck Reduced V Piedmont F Anomalous (MLRA 1	on: PL=Pore Lining, M=Matrix. Problematic Hydric Soils ³ : (A9) (LRR O) (A10) (LRR S) ertic (F18) (outside MLRA 150A,E Floodplain Soils (F19) (LRR P, S, T E Bright Loamy Soils (F20) 53B) t Material (TF2)
Muck F 1 cm M Deplete Thick D Coast I Sandy Sandy	Presence (A8) (LRR U) Presence (A8) (LRR U) Pred Below Dark Surface Park Surface (A12) Prairie Redox (A16) (No Mucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5)) = (A11) 	Redox Depre Marl (F10) (L Depleted Och Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo	essions (F8 RR U) nric (F11) ese Masse ce (F13) ((F17) (ML tic (F18) (odplain S	(MLRA 18 es (F12) (LRR P, T RA 151) MLRA 15 oils (F19)	LRR O, P, , U) 0A, 150B) (MLRA 14	Very Shallo Other (Exp T) 3Indicators wetland unless of	ow Dark Surface (TF12) (LRR T, U) lain in Remarks) s of hydrophytic vegetation and hydrology must be present, disturbed or problematic.
Dark S	d Matrix (S6) urface (S7) (LRR P, S Layer (if observed):		_ Anomalous B	Fright Loar	ny Soils (F20) (MLR	A 149A, 153C, 153	3D)
Туре: _							Hydric Soil Pre	sent? Yes No
Remarks:								

re Vegetation, Soil, or Hydrology significantly disturbed? Are "No	(If no, explain in Remarks.) rmal Circumstances" present? Yes No ed, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Hydrophytic Soil Present? Wetland Hydrology Present? Remarks: Wetland Point Point Sampled Ar within a Wetland? Wetland Point Po	YesNo
IYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Geason Water Table (G2) Crayrish Surcess (G8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Sfallow Aquitard (D3) FAC-Neutral Test (D5) Sphagman moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Watland (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	nd Hydrology Proxest? Yes No No No
Remarks:	

Free Stratum (Plot size: 30 ft)	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2. 2. V/A		Total Number of Dominant Species Across All Strata: (B)
l 5		Percent of Dominant Species That Are OBL, FACW, or FAC: 160 (A/B
	= Total Cover 20% of total cover:	Prevalence Index worksheet:
Sapling Stratum (Plot size: 15F3)		FACW species x 2 = FAC species x 3 =
		FACU species x 4 = UPL species x 5 = Column Totals: (A) (B)
		Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
hrub Stratum (Plot size: 1 5 ++)	20% of total cover:	—
		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
50% of total cover:	= Total Cover = Total Cover 20% of total cover:	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
	= Total Cover 3	
Voody Vine Stratum (Plot size: 3のチャー)		
		Hydrophytic Vegetation
	= Total Cover 20% of total cover:	Vegetation Present? Yes No

					2-2-3-4		
Color (moist)	%	Color (moist)	%	Type ¹	_Loc2	Texture	Remarks
10YRS/3	100			_		Sic	
104126/1	905	1.5425/6	10			5.6	
Indicators: (Applications) (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) e Bodies (A6) (LRR Paucky Mineral (A7) (Lives) d Layers (A8) (LRR Pauck (A9) (LRR Pauck (A9) (LRR Pauck (A9) (LRR Pauck (A12)) d Below Dark Surface (A12) rairie Redox (A16) (Inducky Mineral (S1) (Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR Pauck)	eable to all L P, T, U) RR P, T, U) Pe (A11) MLRA 150A) LRR O, S)	RRs, unless other Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dark Redox Depres Marl (F10) (LI Depleted Och Iron-Mangane Umbric Surfar Reduced Veri	wise note ow Surface (S9) Mineral Mineral Matrix (rix (F3) Murface (F C Surface Sissions (F1) ric (F11) Re Massi ce (F13) (MT) Murface (F18) (Red) Murface (F18) (Murface) Murface) Murface (F18) (Murface) Murf	ed.) ce (S8) (L (LRR S, (F1) (LRR F2) 6) (F7) 8) (MLRA 1: es (F12) (LRR P, T RA 151) MLRA 15 oils (F19)	RR S, T, U T, U) (O) (O) (D) (OA, 150B) (MLRA 14	Indicators for U) 1 cm Muck 2 cm Muck Reduced V Piedmont F Anomalous (MLRA 1 Red Paren Very Shalle Other (Exp , T)	t Material (TF2) by Dark Surface (TF12) lain in Remarks) s of hydrophytic vegetation and hydrology must be present, disturbed or problematic.
						Hydric Soil Pre	sent? YesNo
	Matrix Color (moist) NO VIZS/3 10 VIZ 6/1 Do VIZ 6/1 Local Section of the sec	Matrix Color (moist) % NO Y RS/3 10 Y RS/3 11 Y RS/3 12 Y RS/3 13 Y RS/3 14 Y RS/3 15 Y RS/3 16 Y RS/3 17 Y RS/3 18 Y RS/3 18 Y RS/3 19 Y RS/3 10 Y RS/3 10 Y RS/3 10 Y RS/3 10 Y RS/3 11 Y RS/3 12 Y RS/3 13 Y RS/3 14 Y RS/3 15 Y RS/3 16 Y RS/3 17 Y RS/3 17 Y RS/3 18 Y RS/3 18 Y RS/3 19 Y RS/3 10 Y RS/3	Matrix Color (moist) % Color (moist) NOYRS/3 NORTH North N	Matrix Color (moist) % Color (moist) % NOYRS/3 NORMS/3 NOYRS/3 NORMS/3 Matrix Color (moist) % Type¹ No Y R S 3 No Y R S 3 No Y R S 3 No Y R S 4 No Y R S 4 No Y R S 5 No Y R S 6 No Y R S 7 No Y R S 6 No Y R S 7 No Y R S 8 Matrix Redox Features Color (moist) % Type¹ Loc² NO VISSI3 NO VI	Color (moist) % Color (moist) % Type¹ Loc² Texture NO Y R S S NO S NO S NO S NO S NO S NO S NO		

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Atlantic ana Gair Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

ENG FORM 6116-2-SG, JUL 2018

OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Atlantic and Gulf Coastal Plain - Version 2.0

Próject/Site: Song Sparrow Solar	City/County: Kevil/Ballard County Sampling Date: (2) - 24
Applicant/Owner: Clearway Renewables	State: KY Sampling Point: 62 - VAS
Investigator(s): U. Johnson, M. Angel	Section, Township, Range: N/A
Landform (hillside, terrace, etc.):	Local relief (concave, convex, none): hore Slope (%):
Subregion (LRR or MLRA): LRR P Lat: 37.63	the state of the s
5.76	- 10
Soil Map Unit Name: Vb	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Soil, or Hydrologysignificantly	disturbed? Are "Normal Circumstances" present? YesNo
Are Vegetation, Soil, or Hydrologynaturally pr	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showir	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Wetland Hydrology Present?	Is the Sampled Area within a Wetland? Yes No
Remarks:	
Upland point paired	1 with 02-W-14
Off corres forms	02 00 1
Description (Add - April 1997)	when a -
EYDROLOGY	400
We's nd Hydrology Indicators:	Secondary Indicators (minimum of two required)
Prim ry India tore (minimum) of one is required; check all that apply	Surface Soil Cracks (66)
Surface Water (A1) Aquatic Faunn (B	13) Sparcely Vegetated Conc. ve Surface (B8)
High Water Table (A2) Marl Depoyits (A)	5) (LikR U) Drainage Patterns (B10)
Saturation (A3) Hydrojen Sulfide	Odor (C1)Moss Trim Lines (B16)
	heres on Living Roots (C3) Dry-Season Water Table (C2)
Sectiment Deposits (B2)Presence of Redu	
FOTENS	ection in Tilled Soilc (C6) Saturation Visible on Aerial Imagery (C9)
Algal Wat or Crust (B4)Thin Muck Surface	P. Harmon
Iron Deposits (B5) Other (Explain in	
_Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T, U)
Field Observations:	
	nches):
	nches):
	oches): Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	
	6.1
	~

Sampling Point: 02-WAS-24 VEGETATION (Four Strata) - Use scientific names of plants. Absolute Dominant Indicator % Cover Species? Tree Stratum (Plot size: 305+) Status Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2. NIX **Total Number of Dominant** Species Across All Strata: 5. Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) 6. Prevalence Index worksheet: Total % Cover of: Multiply by: =Total Cover OBL species x 1 =50% of total cover: 20% of total cover: FACW species x 2 = Sapling/Shrub Stratum (Plot size: 15-1) FAC species 1. FACU species x 4 = UPL species Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 5. 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 Problematic Hydrophytic Vegetation¹ (Explain) =Total Cover 🗦 50% of total cover: _____ 20% of total cover: ___ Herb Stratum (Plot size: 5F+) 1. Zea Mays 40 ¹Indic/fors±€ hydric soil and wetland hydrology must be Lamium amplecicante 10 From resent, unless disturbate approblematic. Inition : N Four Tegetation Trata: Tre: - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of Sapling/Shrub - Woody plants, excluding vines, less than 3 in_DBH and greater than 3.28-ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. So =Total Cover Woody Vine - All woody vines greater than 3.28 ft in 50% of total cover: 25 20% of total cover: LDO Woody Vine Stratum (Plot size: 30-F1) Hydrophytic =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes Remarks: (If observed, list morphological adaptations below.)

Profile Description: (Describe to the dep Depth Matrix	27	ument the x Feature		ator or c	onfirm the ab	sence of indicators)
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	2	Remarks
		3					
0-12 104R513 41	104125/8	<u> </u>		4	_S.C	<u> </u>	
			—		-		
							-
		-	-				
							<i></i>
¹Type: C=Concentration, D=Depletion, RM=	Reduced Matrix M	AS=Maske	ed Sand		² l o	cation: PL=Pore Linir	nc M=Matrix
Hydric Soil Indicators: (Applicable to all I				Graino,		cators for Problema	A Comment of the Comm
Histosol (A1)	Thin Dark Su			s. T. U)		1 cm Muck (A9) (LF	PER S
Histic Epipedon (A2)	Barrier Island					2 cm Muck (A10) (LI	
Black Histic (A3)	(MLRA 15			,	٠	Coast Prairie Redox	_ <u>-</u>
Hydrogen Sulfide (A/I)	Loamy Muck			RR (O)	V	(outside MLR/_75	
Stratified Layers (A5)	Loamy Gleye	-	- No.		120	Reduced Vertic (F18	
Organic Podies (/ 6) (FRM F, T, U)	Depicted Ma		/		h-	. (Gutside MLAA 15	
5 cm Mucky Mineral (A?) (LREP, 3, U)	Redex Dark	* 040 F	F6)				Soils (519) (LRR P, T)
Muck Presence (A8) (LR.: U)	- Depleted Da	·					oodplain Soils (F20)
1 cm Muck (A9) (LRR P, T)	Redox Depre				-	(MLPA 153B)	
Depleted Below Park Surface (A11)	Mari (F10) (L		· .	- 2	The second	Red Perent Material	(F21)
Thick Dark Surface (A12)	Depleted Oc	200	(391 84)	A 151).		Very Shallow Dark !	579
Cost 1 rairie Redor (13) (iv	man particular and the second		1000		1.1	(e+1) W 1413	
Saridy Mucky Mineral (S1) (U.S.O., 9)	Surfa Surfa	4.	e	A 355	2 to 1	Barrier Islande Lugar	Chrome Mr trix (TSY)
Sandy Gleyed Matrix (()	Delta Cehric				W/P**	(LT PA 1530, 153)	h d
Sandy Redox (\$5)	Reduced Ve	rtic (F18)	(MLRA	150A, 1	50B)	Other (Explain in Re	marks)
Stripped Matrix (S6)	Piedmont Flo	oudplain S	Soils (F	19) (MLR	A 149A)		= (_
Dark Surface (S7) (ERR P, S, T, U)	Anomalous E	Bright Flo	odplain	Soils (F2	20)		
Polyvalue Below Surface (S§)	(%/LFA 14	9A, 153C	, 183D)) <u>.</u>	g 81 To	³ Indicators of hydrop	hytic v⇒getation and
(LRR S, T, U)	Very Shallow	v Dark Su	rface (F	F22) ₁		wetland hydrology	
	(MLRA 13	8, 15%A ii	n Fl., 1	F.4)		unless disturbed of	or problematic.
Restrictive !, ayer (if observad):		· II	-	*			
Type: Compacted	.2 .3						
Depth (inches): 1					Hydric 50	if Present? You	es No
Remarks:							
Remarks.						F:	
			4.7				
4							
	14						
E .							
NG FORM 6116-2-SG JUL 2018						Atlantic and Gulf	Coastal Plain Version 2

rojed/Site: Song Span	row Salar chyro	county Kevil Be	allard Sampling Date: 02-24
pplicant/Owner:	il Benemables		State LIV Sampling Point 07-W
vestigator(s): LL. Sannaon.	M. Angel Section	on, Township, Range:	11/A
andform (hillslope, terrace, etc.):	Local	relief (concave, convey	none): None Slope (%): 1
ubregion (LRR or MLRA): LRQF		53 100	^
oil Map Unit Name: F9		Long.	
re dimatic / hydrologic conditions on the	a alto himiani for this time of word. W	V	NWI classification:N/A
			(If no, explain in Remarks)
re Vegetation, Soil, or H			Circumstances* present? Yes No
re Vegetation, Soil, or H			explain any answers in Remarks.)
UMMARY OF FINDINGS - At	tach site map showing sam	pling point location	ons, transects, important features, et
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No No Yes No No No No No	Is the Sangled Area within a Wetland?	Yes No
Upland 8	roint paired	ntin	westernd
Upland 8		nti	wetternd
YDROLOGY			
YDROLOGY Metland Hydrology Indicators:	0Z-W-14		Secondary Indicators (minimum of two required)
YDROLOGY Wetland Hydrology Indicators:	equired: check all that apply)		Secondary Indicators (minimum of two required Surface Soil Cracks (B6)
YDROLOGY Metland Hydrology Indicators: Primary Indicators (minimum of one is a control of the	0Z-W-14	-	Secondary Indicators (minimum of two required
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is a Surface Water (A1) High Water Table (A2) Saturation (A3)	required: check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRF-	R U)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is a control of the image) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	required: check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRH Hydrogen Sulfide Odor (C	R U) C1) long Living Roots (C3)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
YDROLOGY Metland Hydrology Indicators: Primary Indicators (minimum of one is recognitional surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	required: check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRti Hydrogen Sulfide Odor (C Oxidized Rhizospheres a Presence of Reduced Iron	R U) C1) long Living Roots (C3) n (C4)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOGY Metland Hydrology Indicators: Primary Indicators (minimum of one is recognition of the image) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	required: check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRti Hydrogen Sulfide Odor (C Oxidized Rhizospheres a Presence of Reduced Iron Recent Iron Reduction in	R U) C1) long Living Roots (C3) n (C4)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainago Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Tablo (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is recognition of the image) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	required: check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRF Hydrogen Sulfide Odor (C Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Thin Muck Surface (C7)	R U) C1) long Living Roots (C3) n (C4) Tilled Soils (C6)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
YDROLOGY Metiand Hydrology Indicators: Primary Indicators (minimum of one is recognition of the image) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	required: check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRF: Hydrogen Sulfide Odor (C Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark	R U) C1) long Living Roots (C3) n (C4) Tilled Soils (C6)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallew Aquitard (D3)
YDROLOGY Metland Hydrology Indicators: Primary Indicators (minimum of one is recognition of the image) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	required: check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRF: Hydrogen Sulfide Odor (C Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark	R U) C1) long Living Roots (C3) n (C4) Tilled Soils (C6)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallew Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Images Water-Stained Leaves (B9)	required: check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRF: Hydrogen Sulfide Odor (C Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark	R U) C1) long Living Roots (C3) n (C4) Tilled Soils (C6)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Metland Hydrology Indicators: Primary Indicators (minimum of one is a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	required: check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRithly Hydrogen Sulfide Odor (Condition of the Condition of the Co	R U) C1) long Living Roots (C3) n (C4) Tilled Soils (C6)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Metland Hydrology Indicators: Primary Indicators (minimum of one is a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	required: check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRF) Hydrogen Sulfide Odor (C Oxidized Rhizospheres a Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark by (B7)	R U) C1) long Living Roots (C3) n (C4) Tilled Soils (C6)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallew Aquitard (D3) FAC-Neutral Test (D5)
Metland Hydrology Indicators: Primary Indicators (minimum of one is research water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Water-Stained Leaves (B9) Field Observations: Surface Water Present? Ves Saturation Present? Yes Includes capillary fringe)	required: check all that apply) Aquatic Fauna (B13) And Deposits (B15) (LRther in the content of the content	R U) C1) long Living Roots (C3) n (C4) Tilled Soils (C6) ss) Wetland H	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainago Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Tablo (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Metiand Hydrology Indicators: Primary Indicators (minimum of one is research water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Water-Stained Leaves (B9) Field Observations: Surface Water Present? Ves Saturation Present? Yes Saturation Present? Yes	required: check all that apply) Aquatic Fauna (B13) And Deposits (B15) (LRther in the content of the content	R U) C1) long Living Roots (C3) n (C4) Tilled Soils (C6) ss) Wetland H	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainago Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)

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VEGETATION (Five	Stratal - He	scientific na	mes of plants

Sampling Point: 02-UA5-26

Tree Stratum (Plot size: 30-7-)		Dominance Test worksheet: Number of Dominant Species
2.		That Are OBL, FACW, or FAC: (A)
N/A		Total Number of Dominant Species Across All Strata: (B)
5,		Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B)
B		Prevalence index worksheet:
	= Total Cover	
	20% of total cover:	OBL species x1 =
Sapling Stratum (Plot size: 15F4)		FACW species x 2 =
		FAC species x 3 =
		FACU species x 4 =
		UPL species x 5 =
		Column Totals: (A) (B)
5		Prevalence Index = B/A =
5	= Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover	20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15F+)		1 - Rapid Test for Hydrophytic Vogetation 2 - Dominance Test is >50%
1		3 - Prevalence Index is ≤3.0¹
		Problematic Hydrophytic Vegetation¹ (Explain)
3. U/A		
4		Indicators of hydric soil and wetland hydrology must
5		be present, unless disturbed or problematic.
6		Definitions of Five Vegetation Strata:
	= Total Cover	Tree - Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 F-150% of total cover:)	20% of total cover:	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size:	ID IN THIS	
HOMOSTIS OFFICIAL FEREN		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
sellaria Madia	10 - FALLA	than 3 in. (7.6 cm) DBH.
3. Tramays		Shrub - Woody plants, excluding woody vines,
		approximately 3 to 20 ft (1 to 6 m) in height.
5 6		Herb - All herbaceous (non-woody) plants, including
7		herbaceous vines, regardless of size, and woody
A 100 A 100 A 100 A 100 A 100 A 100 A 100 A 100 A 100 A 100 A 100 A 100 A 100 A 100 A 100 A 100 A 100 A 100 A		plants, except woody vines, less than approximately 3 ft (1 m) in height.
3		
10		Woody vine - All woody vines, regardless of height.
11		
	= Total Cover	
50% of total cover:	20% of total cover: 6.0	1
Woody Vine Stratum (Plot size: 2014)		
1		
2		
3		
4		
5		Hydrophytic
	= Total Cover	Vegetation Present? Yes No
50% of total cover:	20% of total cover:	

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Depth	ription: (Describe	to the deport	Neus	x Feature	-				Remarks	
(inches)	Color (moist)	%	Color (moist)	_%_	Type'	Loc2	Texture -		TVIIIGING	
0-10	10425/2	90	OXP 5/3	10	<u>c</u>	1	<u></u>	_	_	
10	104/23/2									_
-										
-				-						
				-		_				
								_	_	
_										
-			duced Matrix M	S=Masker	Sand Gr	ains.	² Location: P	L=Pore	Lining, M=Matr	ix.
Type: C=Co	ncentration, D=Dep ndicators: (Applic	eletion, KM=Ke	Rs. unless othe	rwise not	ed.)		Indicators fo	or Proble	matic Hydric	Solls:
		able to all all	Polyvalue Bo	elow Surfa	ce (S8) (L	RR S, T, U)	1 cm Mu	ck (A9) (LRR O)	
_ Histosol			Thin Dark S				2 am Mil	ck (A10)	(LRR S)	MI DA 150A F
HISTIC EP	ipedon (A2)		Loamy Much				Reduced	Vertic (F18) (outside	ALPR P. S. T
	n Sulfide (A4)		Loamy Gley				Piedmon	t Floodp	lain Soils (F19) t Loamy Soils ((E20)
	Layers (A5)		Depleted Ma				Anomalo	153B)	Luarry Cons (,
	Bodies (A6) (LRR P	, T, U)	Redox Dark				(MLKA	ont Mate	rial (TF2)	
5 cm Mu	cky Mineral (A7) (LI	RR P, T, U)	Depleted Da				Red Fall	allow Dar	k Surface (TF1	(2)
Muck Pre	esence (A8) (LRIR L	J)	Redox Depr		8)		Other (E	xplain in	Remarks)	
1 cm Mu	ck (A9) (LRR P, T)	on an	Marl (F10) (I		MI DA 1	51)				
	Below Dark Surface	æ (A11)	Iron-Mangar	nee Mass	es (F12) (LRR O. P. T	n ³ Indicat	ors of hy	drophytic vege	tation and
Thick Da	rk Surface (A12)	MI DA 150A)		ace (F13)	(LRR P. T	. U)	wetlan	nd hydro	logy must be p	resent,
_ Coast Pr	airie Redox (A16) (I lucky Mineral (S1) (I PR O SI	Delta Ochric	(F17) (MI	RA 151)		unles	s disturb	ed or problema	itic.
Sandy M	leyed Matrix (S4)	Lux 0, 0,	Reduced Ve	rtic (F18)	(MLRA 15	50A, 150B)				
	edox (S5)		Piedmont FI	oodplain S	ioits (F19)	(MLRA 149	(A)			6.0
	Matrix (S6)		Anomalous	Bright Loa	my Soils (F20) (MLRA	149A, 153C, 1	53D)		
Dark Sur	face (S7) (LRIP. P.	S, T, U)								
Restrictive L	eyer (If observed)									
Type:	ompacted								Yes V	No
Depth (inc	thes):						Hydric Soll P	resent?	Yes_V_	. 140
Remarks:										

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ENG FORM 6116-2-SG, JUL 2018.

WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Atlantic and Gulf Coastal Plain - Version 2.0

Project/Site: Song Sparrow Solar	City/County: Kevil/Ballard County Sampling Date: 02-28-22
Applicant/Owner: Clearway Renewables	State: KY Sampling Point: 02-WAS-27
Investigator(s): M. Johnson, M. Angel	Section, Township, Range: N/A
	cal relief (concave, convex, none): Concave Slope (%): 1
2 7 72	
Soil Map Unit Name:	NWI classification: 1 / 1/2
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrologysignificantly di	
Are Vegetation, Soil, or Hydrologynaturally probl	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No No No No No No No	Is the Sampled Area within a Wetland? Yes No
Remarks:	aired with 02- W,-15
Wetland Point F	
HVPPOLOOV	
HYDROLOGY	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	
High Water Table (A2) Marl Deposits (B15)	 : : : : : : : : : : : : : : : : : :
Saturation (A3) Hydrogen Sulfide Oc	<u> </u>
	res on Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduce	d Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction	on in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)Thin Muck Surface (C7) Geomorphic Position (D2)
Other (Explain in Re	marks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inch	es):
Water Table Present? Yes No Depth (inch	es): <u>6</u>
Saturation Present? Yes No Depth (inch	es): Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available:
Demarks	
Remarks:	

Tree Stratum (Plot size: 30 + 1		Dominant Species?	Indicator Status	Dominance Test worksheet:
1,				Number of Dominant Species
2.				That Are OBL, FACW, or FAC: (A)
3,				Total Number of Dominant
4	-			Species Across All Strata: 2 (B)
5,		_		Percent of Dominant Species That Are ORL FACILY or FACILY
6.				THAT ARE OBL, PACVV, OF PAC. (AVD)
7		_		Prevalence Index worksheet:
8,		1-10		Total % Cover of: Multiply by:
		otal Cover		OBL species x1 =
50% of total cover:	20% of	total cover:		FACW species x2 =
Sapling/Shrub Stratum (Plot size: 15f+)			FAC species x 3 =
1.				FACU species x4 =
2.				UPL species x 5 =
3. N/K			-	Column Totals: (A)
4				Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6.				1 Rapid Test for Hydrophytic Vegetation
7				- Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
	=To	otal Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover:		_
Herb Stratum (Plot size: 544)				
1 Xanthium Strumanium	200,30	1.	FAC.	1 and and an of heads and make and head are more to
2 Panicum dichotomorum		V,	EALLO	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	CONSTANT		11000	Definitions of Four Vegetation Strata:
		_		
-		_		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
6				
7.		_		Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12				
	70 =To	otal Cover		Woody Vine - All woody vines greater than 3.28 ft in
50% of total cover:	20% of	total cover:	140	height.
Woody Vine Stratum (Plot size: 30-74)				
1.				
2.				
3. N/A		_		
4				
T+:				
5				Hydrophytic
		otal Cover		Vegetation
50% of total cover:	20% of	total cover:		Present? Yes V No
Remarks: (If observed, list morphological adaptation	ns below.)			
NC FORM \$116.2 SC 1111 2019				Atlantic and Gulf Coastal Plain - Version

Profile Desc Depth	cription: (Describe to Matrix	o the de		ox Featu		ator or co	millin the absence (or maicators.,
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
7-6	1042512	98	5427248	10	\overline{c}	A.A.	5,0	
1 12				-				-
6-15	10485/2	96	1042618	10	<u>C</u>	M	5,6	
		_	-	-		_		-
		_		-	_			
	_	_		_		_		
T	angentration D=Dawl	otion DM		- —— MS=Mae	ked San		² l ocation:	PL=Pore Lining, M=Matrix.
**	oncentration, D=Depl Indicators: (Applica					d Granis.		for Problematic Hydric Soils ³ :
Histosol		Die to an	Thin Dark S			S. T. U)		luck (A9) (LRR O)
	oipedon (A2)		Barrier Isla	,				luck (A10) (LRR S)
	stic (A3)		(MLRA 1	53B, 153	D)	·	Coast F	Prairie Redox (A16)
— Hydroge	n Sulfide (A4)		Loamy Mud	ky Miner	al (F1) (L	.RR 0)	(outs	ide MLRA 150A)
Stratified	d Layers (A5)		Loamy Gle	yed Matri	x (F2)		Reduce	ed Vertic (F18)
Organic	Bodies (A6) (LRR P,	T, U)	Depleted M	2.73			•	ide MLRA 150A, 150B)
	ucky Mineral (A7) (LR				` '			ont Floodplain Soils (F19) (LRR P, T
_	esence (A8) (LRR U)	•	Depleted D		` '			lous Bright Floodplain Soils (F20)
	ıck (A9) (LRR P, T)	. (Δ11)	Redox Dep Marl (F10)		(F8)		•	kA 153B) arent Material (F21)
_ '	d Below Dark Surface ark Surface (A12)	(A11)	Depleted O		1) (MLR	۵ 151۱		hallow Dark Surface (F22)
	rairie Redox (A16) (M	LRA 150		•		•		side MLRA 138, 152A in FL, 154)
	lucky Mineral (S1) (L				•			Islands Low Chroma Matrix (TS7)
	Bleyed Matrix (S4)		Delta Ochri	•		-	- (MLR	RA 153B, 153D)
Sandy R	Redox (S5)		Reduced V	ertic (F18	B) (MLR4	150A, 1	50B) Other (Explain in Remarks)
Stripped	Matrix (S6)		Piedmont F	loodplair	n Soils (F	19) (MLR	A 149A)	
Dark Su	rface (S7) (LRR P, S	, T, U)	Anomalous	Bright F	loodplain	Soils (F2	•	
Polyvalu	ie Below Surface (S8)	(MLRA 1	•	- '			tors of hydrophytic vegetation and
(LRR	S, T, U)		Very Shallo					and hydrology must be present,
			(MLRA 1	38, 152A	in FL, 1	54)	unies	ss disturbed or problematic.
	Layer (if observed):							
Type:	Compact.	d						
Depth (ii	nches):						Hydric Soil Prese	ent? Yes No No
Remarks:								
								u.t.
							A 41	antic and Gulf Coastal Plain Versio

U.S. Army Corps of Engineers

ENG FORM 6116-2-SG, JUL 2018

WETLAND DETERMINATION DATA SHEET - Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

OMB Control **: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

year? Yes_y disturbed? Are "No roblematic? (If need	No No No No No No No No No No No No No N	(If no, explain in Remarks.) resent? Yes No s in Remarks.) cts, important features, etc No No Cators (minimum of two required) il Cracks (B6) egetated Concave Surface (B8) latterns (B10)
year? Yes_ y disturbed? Are "No roblematic? (If need within a Wetlan 15) (LRR U) 20 Odor (C1)	No No No No No No No No No No No No No N	Datum: NADB3 (KYFIPS ASSIFICATION: (If no, explain in Remarks.) resent? Yes No s in Remarks.) cts, important features, etc No No Cators (minimum of two required) iil Cracks (B6) egetated Concave Surface (B8) catterns (B10)
year? Yes_y disturbed? Are "No roblematic? (If need within a Wetlan within a Wetlan list) (LRR U) e Odor (C1)	NWI cla No	Datum: NADB3 (KYFIPS ASSIFICATION: (If no, explain in Remarks.) resent? Yes No s in Remarks.) cts, important features, etc No No Cators (minimum of two required) iil Cracks (B6) egetated Concave Surface (B8) catterns (B10)
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y disturbed? Are "No roblematic? (If need and sampling point lis the Sampled within a Wetlan and sampled within a Wetlan lis the Sampled within a Wetlan list had listen lis the Sampled within a Wetlan list had list	No (primal Circumstances" primal Circumstances" primaled, explain any answers locations, transections, transections and the secondary Indications of Society (Sparsely Vegeral Prainage Primale Communication (Surface Society) (Sparsely Vegeral Prainage Primale Circumstance) (Sparsely Vegeral Prainage Prainage Prainage Prainage Prainage Prainage Prainage Prainage Prainage Prainage Prainage Prai	(If no, explain in Remarks.) resent? Yes No s in Remarks.) cts, important features, etc No No cators (minimum of two required) il Cracks (B6) egetated Concave Surface (B8) latterns (B10)
y disturbed? Are "No roblematic? (If need and sampling point lis the Sampled within a Wetlan and sampled within a Wetlan lis the Sampled within a Wetlan list had listen lis the Sampled within a Wetlan list had list	Secondary Indic Surface Soi Drainage P	resent? Yes No
Is the Sampled within a Wetlan Within a Wetlan (If need to be sampled within a Wetlan) (If need to be sampled within a Wetlan) (If need to be sampled within a Wetlan)	Secondary Indic Surface Soi Sparsely Ve Drainage P	cators (minimum of two required) il Cracks (B6) egetated Concave Surface (B8) l'atterns (B10)
Is the Sampled within a Wetlan A TO CO B13) 15) (LRR U) COORD (C1)	Area ad? Yes Secondary Indic Surface Soi Sparsely Ve Drainage P	cators (minimum of two required) il Cracks (B6) egetated Concave Surface (B8) l'atterns (B10)
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within a Wetlan (1) (3) (3) (3) (4) (5) (4) (6) (6) (7) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	Secondary Indic Surface Soi Sparsely Ve Drainage P	cators (minimum of two required) il Cracks (B6) egetated Concave Surface (B8) latterns (B10)
313) 15) (LRR U)	Secondary Indic Surface Soi Sparsely Ve Drainage P	cators (minimum of two required) il Cracks (B6) egetated Concave Surface (B8) latterns (B10)
0) 313) 15) (LRR U) e Odor (C1)	Secondary Indic Surface Soi Sparsely Ve Drainage P	il Cracks (B6) egetated Concave Surface (B8) latterns (B10)
0) 313) 15) (LRR U) e Odor (C1)	Secondary Indic Surface Soi Sparsely Ve Drainage P	il Cracks (B6) egetated Concave Surface (B8) latterns (B10)
313) 15) (LRR U) • Odor (C1)	Surface Soi Sparsely Ve	il Cracks (B6) egetated Concave Surface (B8) latterns (B10)
313) 15) (LRR U) • Odor (C1)	Surface Soi Sparsely Ve	il Cracks (B6) egetated Concave Surface (B8) latterns (B10)
313) 15) (LRR U) • Odor (C1)	Surface Soi Sparsely Ve	il Cracks (B6) egetated Concave Surface (B8) latterns (B10)
313) 15) (LRR U) • Odor (C1)	Sparsely Ve	egetated Concave Surface (B8) latterns (B10)
15) (LRR U) • Odor (C1)	Drainage P	atterns (B10)
, ,	Moss Trim	Lines (B16)
heres on Living Roots (C	Contract (Contr	Lines (B.O)
	C3) Dry-Seasor	water Table (C2)
uced Iron (C4)	Crayfish Bu	rrows (C8)
uction in Tilled Soils (C6)	-/	Visible on Aerial Imagery (C9)
ce (C7)		c Position (D2)
Remarks)		
	Spriagnum	Moss (D8) (LRR T, U)
nches):		
	etland Hydrology Pres	ent? Yes V No
(Crics)	stialia riyarology r resi	103
otos, previous inspection:	s), if available:	
, p	-,,	
	_	
rr	nches): 3 nches): 4	Geomorphi Remarks) FAC-Neutr Sphagnum nches): 3 nches): 3

Tree Stratum (Plot size: 30++)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Tandium distichum	30		BBL	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3			_	Total Number of Dominant Species Across All Strata: (B)
6.	_	=	_	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		=Total Cover		OBL species x1 =
50% of total cover: Sapling/Shrub Stratum (Plot size: \ 5 F-1)	20%	of total cover		FACW species x 2 = FAC species x 3 =
1. Taxidiam disticums	10	j	084	FACU species x4 =
2. Accor negunelo	- 5	7	FAC	UPL species x 5 =
3.				Column Totals: (A) (B)
4.			.,#	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8	15	=Total Cover		3 - Prevalence Index is ≤3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	-	of total cover	: 30	Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 5+4)	<u>(, 3</u> 2070	OI (OIBI COVEI		
1.				¹ Indicators of hydric soil and wetland hydrology must be
2.				present, unless disturbed or problematic.
3. D/A				Definitions of Four Vegetation Strata:
4.				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of height.
6.			-	neight.
7.			-	Sapling/Shrub - Woody plants, excluding vines, less
8.		× 7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				*
11.				Herb – All herbaceous (non-woody) plants, regardless
12.	Der.			of size, and woody plants less than 3.28 ft tall.
		=Total Cover		Woody Vine - All woody vines greater than 3.28 ft in
50% of total cover:	20%	of total cover		height.
Woody Vine Stratum (Plot size: 30 FT)				
1.				
2.				
3				
4.		_		
5		Total Cover		Hydrophytic
50% of total cover:		of total cover		Vegetation Present? Yes No
		- 10101 00101	-	11000111
Remarks: (If observed, list morphological adaptation	ns below.)			

Sampling Point: 02-WA5 30

inches) Color (moist) %	Color (moist)	%	Type ¹	Loc2	Tex	xture	Remark	(S
10 YES12 85	1042.516	<u> 15</u>	<u>c</u>	<u></u>	\$;			
		=	=	=				
Type: C=Concentration, D=Depletion, RM				Grains.			=Pore Lining, M=Ma	
ydric Soil Indicators: (Applicable to all Histosol (A1)	Thin Dark Su		•	STIN			Problematic Hydri k (A9) (LRR O)	c solls :
Histic Epipedon (A2)	Barrier Island	•			-		k (A10) (LRR S)	
Black Histic (A3)	(MLRA 153		•	,	-		irie Redox (A16)	
Hydrogen Sulfide (A4)	Loamy Mucky			RR O)	-		MLRA 150A)	
Stratified Layers (A5)	Lpamy Gleye					•	/ertic (F18)	
Organic Bodies (A6) (LRR P, T, U)	Depleted Mat		` '		-	— (outside	MLRA 150A, 150B)
5 cm Mucky Mineral (A7) (LRR P, T, U)			F6)			-	Floodplain Soils (F1	-
Muck Presence (A8) (LRR U)	Depleted Dar	k Surfac	e (F7)		-	Anomalou	s Bright Floodplain S	Soils (F20)
1 cm Muck (A9) (LRR P, T)	Redox Depre	ssions (F	-8)		-	(MLRA	153B)	
Depleted Below Dark Surface (A11)	Marl (F10) (L	RR U)			_	Red Parer	nt Material (F21)	
Thick Dark Surface (A12)	Depleted Och	ric (F11)	(MLRA	151)	_	Very Shall	ow Dark Surface (F2	22)
Coast Prairie Redox (A16) (MLRA 1504	N) Iron-Mangane	se Mass	ses (F12	2) (LRR O	, P, T)	(outside	MLRA 138, 152A i	n FL, 154)
Sandy Mucky Mineral (S1) (LRR O, S)	Umbric Surfa	ce (F13)	(LRR P	, T, U)	_	Barrier Isla	ands Low Chroma M	atrix (TS7)
Sandy Gleyed Matrix (S4)	Delta Ochric	(F17) (M	LRA 15	1)		(MLRA	153B, 153D)	
Sandy Redox (S5)	Reduced Veri	tic (F18)	(MLRA	150A, 150	0B) _	Other (Exp	olain in Remarks)	
Stripped Matrix (S6)Dark Surface (S7) (LRR P, S, T, U)Polyvalue Below Surface (S8)(LRR S, T, U)	Piedmont Flo Anomalous B (MLRA 149 Very Shallow (MLRA 138	right Flo A, 153C Dark Su	odplain , 153D) Irface (F	Soils (F20 22)	•	wetland	of hydrophytic vege hydrology must be p disturbed or problem	oresent,
estrictive Layer (if observed):								
Type:								/
Depth (inches):					Hydric	Soil Present	Yes V	No
emarks:				_				

Appendix C TABLES

Table 1. Soil Types Known to Occur within the Song Sparrow Solar Project, Ballard County, Kentucky

Map Unit Symbol	Map Unit Name	Hydric (Yes/No)	Acres in AOI	Percent of AOI
GrB2	Grenada silt loam, 2 to 6 percent slopes, eroded	No	211.6	15.1%
GsC3	Grenada-Purchase complex, 6 to 12 percent slopes, severely eroded	No	201.3	14.4%
Fa	Falaya-Collins complex, 0 to 2 percent slopes, occasionally flooded	Yes	191.5	13.7%
Vb	Vicksburg silt loam, 0 to 2 percent slopes, occasionally flooded	Yes	151.6	10.8%
LpC3	Loring-Purchase complex, 6 to 12 percent slopes, severely eroded	No	149.3	10.6%
LpD3	Loring-Purchase complex, 12 to 20 percent slopes, severely eroded	No	141.0	10.0%
GsB3	Grenada-Purchase complex, 4 to 6 percent slopes, severely eroded	No	91.0	6.5%
LoB2	Loring silt loam, 2 to 6 percent slopes, eroded	No	69.4	4.9%
FeB	Feliciana silt loam, 2 to 6 percent slopes	No	55.2	3.9%
GrB3	Grenada silt loam, 4 to 6 percent slopes, severely eroded	No	40.1	2.9%
LoC3	Loring silt loam, 6 to 12 percent slopes, severely eroded	No	22.5	1.6%
GrA	Grenada silt loam, 0 to 2 percent slopes	No	21.1	1.5%
RtA	Routon silt loam, 0 to 2 percent slopes	Yes	14.9	1.1%
CaA	Calloway silt loam, 0 to 2 percent slopes	Yes	11.5	0.8%
FeC2	Feliciana silt loam, 6 to 12 percent slopes, eroded	No	9.6	0.7%
CaB2	Calloway silt loam, 2 to 4 percent slopes, eroded	No	8.6	0.6%
BnD3	Brandon silt loam, 12 to 20 percent slopes, severely eroded	No	4.3	0.3%
LoC2	Loring silt loam, 6 to 12 percent slopes, eroded	No	3.2	0.2%
W	Water	No	3.0	0.2%
KrA	Kurk silt loam, 0 to 2 percent slopes	Yes	1.9	0.1%
	· ,			•
	Totals for Area of Interest		1,405.2	100.00%



Table 2. Wetlands Identified at the Song Sparrow Solar Project, Ballard County, Kentucky

Wetland Name	Latitude	Longitude	Cowardin Classification	Preliminary Jurisdictional Class	Total Area (Acres)
01-W-01	37.029645	-88.881802	PEM	Jurisdictional	0.15
01-W-02	37.026644	-88.880725	PFO	Jurisdictional	0.01
01-W-03	37.025566	-88.881744	PFO	Jurisdictional	0.02
01-W-04	37.029654	-88.886896	PEM/PFO	Jurisdictional	0.06
01-W-05	37.027174	-88.889135	PEM	Jurisdictional	0.08
01-W-06	37.026939	-88.892890	PEM	Jurisdictional	0.05
01-W-07	37.023539	-88.894283	PFO	Jurisdictional	0.04
01-W-08	37.022988	-88.893925	PFO	Non-Jurisdictional	0.17
01-W-09	37.023057	-88.892741	PSS	Jurisdictional	0.08
01-W-10	37.021999	-88.890977	PFO	Non-Jurisdictional	0.04
01-W-11	37.023641	-88.892995	PSS/PFO	Jurisdictional	0.15
01-W-12	37.021545	-88.901840	PFO	Jurisdictional	0.06
01-W-13	37.021786	-88.895451	PSS/PFO	Jurisdictional	0.04
01-W-14a	37.030499	-88.915365	PEM	Jurisdictional	0.14
01-W-14b	37.030248	-88.915219	PEM	Jurisdictional	0.06
01-W-15	37.020315	-88.910354	PEM	Jurisdictional	0.01
01-W-16	37.021224	-88.908059	PSS/PFO	Jurisdictional	0.30
01-W-17	37.021652	-88.908191	PEM	Jurisdictional	0.34
01-W-18	37.019770	-88.906221	PEM/PFO	Jurisdictional	0.58
01-W-19	37.019315	-88.906370	PFO	Non-Jurisdictional	0.06
01-W-20a	37.025722	-88.915101	PEM	Jurisdictional	0.16
01-W-20b	37.023945	-88.915941	PEM	Jurisdictional	0.16
01-W-20c	37.023329	-88.916497	PEM	Jurisdictional	0.07
02-W-01	37.018850	-88.864496	PSS/PEM	Non-Jurisdictional	0.02
02-W-02	37.019618	-88.868213	PSS	Jurisdictional	0.06
02-W-03	37.020035	-88.870100	PEM	Non-Jurisdictional	0.09
02-W-04	37.019410	-88.871477	PEM	Non-Jurisdictional	0.07
02-W-05	37.018399	-88.871291	PEM	Non-Jurisdictional	0.01
02-W-06	37.016950	-88.875239	PFO	Non-Jurisdictional	0.12
02-W-07	37.013205	-88.873495	PSS	Jurisdictional	0.22
02-W-08	37.037098	-88.907449	PEM	Non-Jurisdictional	0.01
02-W-09	37.031985	-88.912892	PSS/PEM	Jurisdictional	0.09
02-W-10	37.031692	-88.912391	PSS/PEM	Jurisdictional	0.19
02-W-11a	37.037686	-88.902200	PSS/PFO	Jurisdictional	0.10
02-W-11b	37.036683	-88.901703	PSS/PFO	Jurisdictional	0.01
02-W-12	37.033839	-88.914110	PSS/PEM	Jurisdictional	0.01
02-W-13	37.033249	-88.913303	PSS/PEM	Non-Jurisdictional	0.10



Wetland Name	Latitude	Longitude	Cowardin Classification	Preliminary Jurisdictional Class	Total Area (Acres)
02-W-14	37.031758	-88.911301	PSS/PEM	Jurisdictional	0.10
02-W-15a	37.035530	-88.914206	PSS/PFO	Jurisdictional	0.24
02-W-15b	37.036634	-88.914691	PSS/PFO	Jurisdictional	0.21
02-W-16	37.037642	-88.914470	PSS/PFO	Jurisdictional	0.12
02-W-17	37.027782	-88.922074	PEM	Non-Jurisdictional	0.08
03-W-11	37.026939	-88.923448	PFO	Jurisdictional	0.02
03-W-12	37.029502	-88.925240	PFO	Jurisdictional	0.11

¹ Pending official determination by the USACE

Table 3. Streams Identified at the Song Sparrow Solar Project, Ballard County, Kentucky

Stream Name	Latitude	Longitude	Flow Class	Preliminary Jurisdictional Determination	Total Linear Feet
01-S-01	-88.88236926	37.01455519	UD	Non-Jurisdictional	509.7
01-S-01	-88.88357789	37.01487164	EPH	Non-Jurisdictional	280.1
01-S-02	-88.88188266	37.01643317	UD	Non-Jurisdictional	314.2
01-S-02	-88.88385559	37.01523198	INT	Jurisdictional	149.6
01-S-02	-88.8830043	37.01585052	EPH	Non-Jurisdictional	549.5
01-S-03	-88.88230919	37.01565796	UD	Non-Jurisdictional	364.6
01-S-04	-88.88326728	37.01607623	UD	Non-Jurisdictional	228.6
01-S-05	-88.88201974	37.01871585	UD	Non-Jurisdictional	440.1
01-S-05	-88.88194083	37.01970813	EPH	Non-Jurisdictional	319.6
01-S-06	-88.88296386	37.01930387	UD	Non-Jurisdictional	380
01-S-06	-88.87949192	37.02174159	INT	Jurisdictional	2,064.40
01-S-06	-88.88221935	37.01994872	EPH	Non-Jurisdictional	309.5
01-S-07	-88.8834788	37.01980277	UD	Non-Jurisdictional	285.1
01-S-07	-88.88281928	37.0199446	EPH	Non-Jurisdictional	126.9
01-S-08	-88.88149065	37.02027186	EPH	Non-Jurisdictional	159.1
01-S-09	-88.88020473	37.02085887	INT	Jurisdictional	213.7
01-S-10	-88.87984637	37.02124493	EPH	Non-Jurisdictional	101.2
01-S-11	-88.87946774	37.02226872	EPH	Non-Jurisdictional	121.5
01-S-12	-88.87890014	37.02229918	EPH	Non-Jurisdictional	54.6
01-S-13	-88.87865145	37.02235002	EPH	Non-Jurisdictional	69.5
01-S-14	-88.8784025	37.02235661	EPH	Non-Jurisdictional	87.4



Stream Name	Latitude	Longitude	Flow Class	Preliminary Jurisdictional Determination	Total Linear Feet
01-S-15	-88.87845339	37.02636261	EPH	Non-Jurisdictional	124.8
01-S-16	-88.8782916	37.02773755	EPH	Non-Jurisdictional	20.8
01-S-17	-88.87943764	37.02788835	EPH	Non-Jurisdictional	56.1
01-S-18	-88.8796711	37.02872541	EPH	Non-Jurisdictional	71.5
01-S-19	-88.88717733	37.03000188	PER	Jurisdictional	1,846.70
01-S-20	-88.87990003	37.03054532	EPH	Non-Jurisdictional	133.5
01-S-21	-88.88171143	37.0258355	INT	Jurisdictional	3,055.70
01-S-22	-88.87996762	37.02679352	EPH	Non-Jurisdictional	67.1
01-S-23	-88.88148424	37.02604129	EPH	Non-Jurisdictional	32.2
01-S-24	-88.88249775	37.02625767	INT	Jurisdictional	553.7
01-S-25	-88.88139403	37.02534915	EPH	Non-Jurisdictional	210.4
01-S-26	-88.88233967	37.02538562	EPH	Non-Jurisdictional	82.1
01-S-27	-88.88236569	37.02532509	EPH	Non-Jurisdictional	23.5
01-S-28	-88.88298034	37.0253559	EPH	Non-Jurisdictional	93
01-S-29	-88.88356218	37.02491778	EPH	Non-Jurisdictional	231.4
01-S-29	-88.88433434	37.02503283	UD	Non-Jurisdictional	239.1
01-S-30	-88.88324616	37.02448509	EPH	Non-Jurisdictional	90.9
01-S-31	-88.88349282	37.02409148	INT	Jurisdictional	62.5
01-S-32	-88.88378548	37.0238737	EPH	Non-Jurisdictional	23.7
01-S-33	-88.88414642	37.02347455	INT	Jurisdictional	39
01-S-34	-88.8843405	37.03000069	EPH	Non-Jurisdictional	42
01-S-35	-88.88452039	37.03000448	EPH	Non-Jurisdictional	58.1
01-S-36	-88.88592	37.02945573	EPH	Non-Jurisdictional	324.5
01-S-37	-88.88680331	37.02987788	INT	Jurisdictional	106.5
01-S-38	-88.88691999	37.02997608	EPH	Non-Jurisdictional	34.9
01-S-39	-88.88715657	37.02999476	EPH	Non-Jurisdictional	4.2
01-S-40	-88.88727273	37.02997322	EPH	Non-Jurisdictional	25.6
01-S-41	-88.88747766	37.02995668	EPH	Non-Jurisdictional	41.8
01-S-42	-88.88775052	37.03026614	INT	Jurisdictional	214.4
01-S-43	-88.88788184	37.02990963	EPH	Non-Jurisdictional	20.6
01-S-44	-88.88490335	37.02267503	INT	Jurisdictional	568.1
01-S-45	-88.88871659	37.02749869	EPH	Non-Jurisdictional	110.6
01-S-46	-88.89584886	37.02609105	INT	Jurisdictional	1,957.20



Stream Name	Latitude	Longitude	Flow Class	Preliminary Jurisdictional Determination	Total Linear Feet
01-S-47	-88.89344593	37.02589108	EPH	Non-Jurisdictional	427.4
01-S-48	-88.89351688	37.02580689	EPH	Non-Jurisdictional	139.8
01-S-49	-88.89359055	37.02634256	INT	Jurisdictional	61.2
01-S-50	-88.89751823	37.02726942	INT	Jurisdictional	667.6
01-S-51	-88.89749544	37.02733032	EPH	Non-Jurisdictional	40.8
01-S-52	-88.89623496	37.02740299	EPH	Non-Jurisdictional	455.5
01-S-53	-88.89509901	37.02392302	PER	Jurisdictional	2556
01-S-53	-88.89152349	37.02421522	INT	Jurisdictional	176.1
01-S-53	-88.89104799	37.02460981	EPH	Non-Jurisdictional	239.7
01-S-54	-88.89721122	37.02462808	EPH	Non-Jurisdictional	96.5
01-S-55	-88.89729755	37.02417518	EPH	Non-Jurisdictional	194.5
01-S-56	-88.89634493	37.02437901	EPH	Non-Jurisdictional	348.6
01-S-57	-88.89618536	37.02398817	EPH	Non-Jurisdictional	98.5
01-S-58	-88.89507709	37.0242615	EPH	Non-Jurisdictional	300.2
01-S-59	-88.89464775	37.02396028	INT	Jurisdictional	105.3
01-S-59	-88.8943806	37.02398885	EPH	Non-Jurisdictional	112.8
01-S-60	-88.89439182	37.02384654	EPH	Non-Jurisdictional	40.1
01-S-61	-88.89413867	37.02345783	INT	Jurisdictional	157.1
01-S-62	-88.89417695	37.02342764	EPH	Non-Jurisdictional	27.2
01-S-63	-88.89313131	37.0234449	INT	Jurisdictional	494.5
01-S-64	-88.89299319	37.02417	EPH	Non-Jurisdictional	19.4
01-S-65	-88.89281689	37.02431825	EPH	Non-Jurisdictional	56.1
01-S-66	-88.89265365	37.0241747	EPH	Non-Jurisdictional	34.9
01-S-67	-88.89259231	37.02433229	INT	Jurisdictional	109.3
01-S-68	-88.89227833	37.02448278	INT	Jurisdictional	167.2
01-S-69	-88.89132028	37.02407211	INT	Jurisdictional	363.3
01-S-70	-88.89123337	37.02393523	EPH	Non-Jurisdictional	115.9
01-S-71	-88.8932216	37.02357281	INT	Jurisdictional	44.9
01-S-72	-88.89627711	37.02182551	PER	Jurisdictional	3,269.80
01-S-73	-88.89686403	37.02191223	INT	Jurisdictional	70.1
01-S-74	-88.89704658	37.02192383	INT	Jurisdictional	73
01-S-75	-88.89696264	37.02141649	INT	Jurisdictional	213.7
01-S-76	-88.89816314	37.02167105	EPH	Non-Jurisdictional	79.1



Stream Name	Latitude	Longitude	Flow Class	Preliminary Jurisdictional Determination	Total Linear Feet
01-S-77	-88.89882557	37.02158798	EPH	Non-Jurisdictional	46.7
01-S-78	-88.90220806	37.02070082	INT	Jurisdictional	694.9
01-S-79	-88.90212055	37.02077291	EPH	Non-Jurisdictional	59.8
01-S-80	-88.91157248	37.02762216	PER	Jurisdictional	6,207.80
01-S-80	-88.91547721	37.03442397	PER	Jurisdictional	2,078.00
01-S-81	-88.90500125	37.02039109	EPH	Non-Jurisdictional	182.3
01-S-82	-88.90397458	37.01934059	EPH	Non-Jurisdictional	108.3
01-S-83	-88.91497914	37.01214098	UD	Non-Jurisdictional	298.8
01-S-83	-88.91573722	37.0125141	EPH	Non-Jurisdictional	268.3
01-S-84	-88.91411405	37.01444407	INT	Jurisdictional	1,807.10
01-S-85	-88.9131895	37.01416418	EPH	Non-Jurisdictional	495.3
01-S-86	-88.91340197	37.01557566	UD	Non-Jurisdictional	411.4
01-S-86	-88.91452756	37.01583556	EPH	Non-Jurisdictional	319.3
01-S-87	-88.91448943	37.01806714	UD	Non-Jurisdictional	996.5
01-S-87	-88.91568942	37.01924715	EPH	Non-Jurisdictional	245.2
01-S-88	-88.91419909	37.02607519	PER	Jurisdictional	5,135.90
01-S-88	-88.91423623	37.02625451	PER	Jurisdictional	5,064.70
01-S-89	-88.91474832	37.01985487	EPH	Non-Jurisdictional	503.3
01-S-89	-88.91332376	37.01979936	EPH	Non-Jurisdictional	197.7
01-S-90	-88.91486763	37.03071277	EPH	Non-Jurisdictional	358.1
01-S-91	-88.91438296	37.03045936	EPH	Non-Jurisdictional	192
01-S-92	-88.91493209	37.02996628	EPH	Non-Jurisdictional	131.2
01-S-93	-88.91461542	37.030228	EPH	Non-Jurisdictional	110.1
01-S-94	-88.91482326	37.03137969	EPH	Non-Jurisdictional	360.8
01-S-95	-88.91461314	37.03180217	EPH	Non-Jurisdictional	95.5
01-S-96	-88.9154126	37.03343678	EPH	Non-Jurisdictional	83.4
01-S-97	-88.91593711	37.03444358	INT	Jurisdictional	465
01-S-98	-88.91606211	37.03484354	EPH	Non-Jurisdictional	52.4
01-S-99	-88.91669068	37.03521548	INT	Jurisdictional	397.8
01-S-100	-88.91713516	37.03526154	INT	Jurisdictional	149.2
01-S-101	-88.91393739	37.02971876	EPH	Non-Jurisdictional	128.8
01-S-102	-88.91319795	37.02773323	INT	Jurisdictional	1,163.30
01-S-102	-88.9137206	37.02517972	EPH	Non-Jurisdictional	892.6



Stream Name	Latitude	Longitude	Flow Class	Preliminary Jurisdictional Determination	Total Linear Feet
01-S-102	-88.91417871	37.02397293	UD	Non-Jurisdictional	99
01-S-103	-88.91300104	37.02891157	EPH	Non-Jurisdictional	37.6
01-S-104	-88.91330384	37.02721722	EPH	Non-Jurisdictional	53.5
01-S-105	-88.90952695	37.02056455	INT	Jurisdictional	615.4
01-S-106	-88.90779089	37.02268818	INT	Jurisdictional	1,465.20
01-S-106	-88.90911239	37.01921024	INT	Non-Jurisdictional	242.5
01-S-107	-88.90834958	37.0201493	EPH	Non-Jurisdictional	51.1
01-S-108	-88.90925308	37.02149679	EPH	Non-Jurisdictional	130.3
01-S-109	-88.90800368	37.02233807	EPH	Non-Jurisdictional	77.8
01-S-110	-88.90649484	37.02030669	INT	Jurisdictional	222
01-S-111	-88.90526229	37.01992921	EPH	Non-Jurisdictional	112.2
01-S-112	-88.90583292	37.02051311	INT	Jurisdictional	176.6
01-S-113	-88.91575135	37.02131377	EPH	Non-Jurisdictional	376.5
01-S-114	-88.91584638	37.02122196	EPH	Non-Jurisdictional	54.8
01-S-115	-88.91499002	37.02367863	EPH	Non-Jurisdictional	162.9
01-S-116	-88.91539326	37.02536304	INT	Jurisdictional	472
01-S-117	-88.9161322	37.02411927	EPH	Non-Jurisdictional	205.6
01-S-118	-88.91520433	37.02762124	EPH	Non-Jurisdictional	127.1
02-S-01	-88.86945446	37.01800056	PER	Jurisdictional	4,267.90
02-S-02	-88.86782937	37.01819972	INT	Jurisdictional	1,869.30
02-S-03	-88.8659495	37.01811904	EPH	Non-Jurisdictional	271.1
02-S-04	-88.86584479	37.01829477	EPH	Non-Jurisdictional	259.5
02-S-05	-88.86490977	37.01841453	UD	Non-Jurisdictional	136.5
02-S-06	-88.86470099	37.01855586	UD	Non-Jurisdictional	104.8
02-S-07	-88.86414419	37.01926983	INT	Non-Jurisdictional	211.1
02-S-08	-88.86409665	37.01615483	UD	Non-Jurisdictional	154.4
02-S-09	-88.86820392	37.01979181	UD	Non-Jurisdictional	389.7
02-S-09	-88.86867382	37.01880847	EPH	Non-Jurisdictional	421.3
02-S-10	-88.87315195	37.01986838	INT	Jurisdictional	409.7
02-S-11	-88.87071013	37.01778817	EPH	Non-Jurisdictional	212.6
02-S-12	-88.87213647	37.01577636	UD	Non-Jurisdictional	452.6
02-S-13	-88.87399884	37.01640641	EPH	Non-Jurisdictional	466
02-S-13	-88.87309739	37.01620559	UD	Non-Jurisdictional	151.1



SONG SPARROW SOLAR WETLAND AND WATERBODY DELINEATION REPORT

Stream Name	Latitude	Longitude	Flow Class	Preliminary Jurisdictional Determination	Total Linear Feet
02-S-14	-88.87487178	37.01730727	EPH	Non-Jurisdictional	39.5
02-S-15	-88.87484845	37.01738857	EPH	Non-Jurisdictional	39.9
02-S-16	-88.87475247	37.01754513	EPH	Non-Jurisdictional	42.7
02-S-17	-88.87501658	37.01858416	EPH	Non-Jurisdictional	45.8
02-S-18	-88.8750614	37.01858058	EPH	Non-Jurisdictional	28.7
02-S-19	-88.87540998	37.01892971	EPH	Non-Jurisdictional	93.3
02-S-20	-88.87576386	37.01859493	EPH	Non-Jurisdictional	229.3
02-S-21	-88.87654348	37.01839569	INT	Non-Jurisdictional	664.7
02-S-22	-88.87678336	37.01804865	EPH	Non-Jurisdictional	288.5
02-S-23	-88.87526858	37.0189337	EPH	Non-Jurisdictional	37.2
02-S-24	-88.87477172	37.01914589	EPH	Non-Jurisdictional	64.3
02-S-25	-88.87641807	37.02048485	EPH	Non-Jurisdictional	155.5
02-S-26	-88.87847513	37.0272042	PER	Jurisdictional	2,205.80
02-S-26	-88.87490247	37.01561991	INT	Jurisdictional	3,166.30
02-S-27	-88.87905514	37.01724865	EPH	Non-Jurisdictional	752.6
02-S-28	-88.87711178	37.01851976	EPH	Non-Jurisdictional	224.2
02-S-29	-88.87427006	37.01552653	EPH	Non-Jurisdictional	398.9
02-S-30	-88.87284671	37.01355447	EPH	Non-Jurisdictional	294.3
02-S-31	-88.87128065	37.01169473	UD	Non-Jurisdictional	97.4
02-S-32	-88.87302069	37.01291942	INT	Jurisdictional	1,512.80
02-S-33	-88.87619173	37.01342226	EPH	Non-Jurisdictional	595
02-S-33	-88.87798753	37.01373721	UD	Non-Jurisdictional	542.1
02-S-34	-88.87908174	37.01385441	UD	Non-Jurisdictional	149
02-S-35	-88.87916388	37.01409951	UD	Non-Jurisdictional	227.3
02-S-36	-88.8769192	37.01320751	EPH	Non-Jurisdictional	149
02-S-36	-88.87792901	37.01274074	UD	Non-Jurisdictional	555.4
02-S-37	-88.87632837	37.01492075	EPH	Non-Jurisdictional	680.2
02-S-37	-88.87844492	37.01569966	UD	Non-Jurisdictional	741.6
02-S-38	-88.8771408	37.01980601	EPH	Non-Jurisdictional	118
02-S-39	-88.87713305	37.02056583	EPH	Non-Jurisdictional	48.3
02-S-40	-88.90398605	37.03613277	EPH	Non-Jurisdictional	89.8
02-S-41	-88.9043561	37.0356171	EPH	Non-Jurisdictional	433.6
02-S-42	-88.9044993	37.03526913	EPH	Non-Jurisdictional	80.4



SONG SPARROW SOLAR WETLAND AND WATERBODY DELINEATION REPORT

Stream Name	Latitude	Longitude	Flow Class	Preliminary Jurisdictional Determination	Total Linear Feet
02-S-43	-88.90635	37.03523811	EPH	Non-Jurisdictional	37.1
02-S-44	-88.90639585	37.03532795	INT	Jurisdictional	220.4
02-S-45	-88.905005	37.03704722	EPH	Non-Jurisdictional	138.8
02-S-46	-88.90482258	37.03734313	EPH	Non-Jurisdictional	39.9
02-S-47	-88.9055827	37.03703375	EPH	Non-Jurisdictional	73.9
02-S-48	-88.90640423	37.0383686	EPH	Non-Jurisdictional	323.6
02-S-49	-88.90627373	37.03845414	EPH	Non-Jurisdictional	200.3
02-S-50	-88.9060702	37.03827253	EPH	Non-Jurisdictional	22.9
02-S-51	-88.90769456	37.03832444	EPH	Non-Jurisdictional	125.9
02-S-52	-88.90747575	37.03537577	INT	Jurisdictional	308
02-S-53	-88.90766262	37.03537422	EPH	Non-Jurisdictional	123.7
02-S-54	-88.90785697	37.03522294	EPH	Non-Jurisdictional	179.8
02-S-55	-88.91264222	37.03359737	PER	Jurisdictional	2,179.40
02-S-56	-88.9021561	37.03751713	EPH	Non-Jurisdictional	684.9
02-S-57	-88.9024335	37.038073	EPH	Non-Jurisdictional	50.6
02-S-58	-88.91407927	37.03399432	EPH	Non-Jurisdictional	47.9
02-S-59	-88.91279735	37.03173715	EPH	Non-Jurisdictional	972.4
02-S-60	-88.91069885	37.03445353	EPH	Non-Jurisdictional	202.3
02-S-61	-88.91231567	37.02817667	EPH	Non-Jurisdictional	134.2
02-S-62	-88.91041623	37.03539843	EPH	Non-Jurisdictional	368.8
02-S-63	-88.9123458	37.02801411	EPH	Non-Jurisdictional	126.5
02-S-64	-88.91191876	37.02779921	INT	Jurisdictional	87.4
02-S-65	-88.9106513	37.02616661	EPH	Non-Jurisdictional	441.6
02-S-66	-88.91078523	37.02614761	EPH	Non-Jurisdictional	203.1
02-S-67	-88.9084615	37.02381084	INT	Jurisdictional	610.4
02-S-68	-88.91418633	37.03590385	EPH	Non-Jurisdictional	116.7
02-S-69	-88.91412737	37.03605578	EPH	Non-Jurisdictional	37.4
02-S-70	-88.91452208	37.03657993	EPH	Non-Jurisdictional	48.3
02-S-71	-88.91332931	37.03639013	EPH	Non-Jurisdictional	208.2
02-S-72	-88.91192329	37.03802132	EPH	Non-Jurisdictional	63.5
02-S-73	-88.91071583	37.03792076	EPH	Non-Jurisdictional	267.9
02-S-74	-88.90988654	37.03803598	EPH	Non-Jurisdictional	550.9
02-S-75	-88.91035069	37.03511271	EPH	Non-Jurisdictional	165.6



SONG SPARROW SOLAR WETLAND AND WATERBODY DELINEATION REPORT

Stream Name	Latitude	Longitude	Flow Class	Preliminary Jurisdictional Determination	Total Linear Feet
02-S-76	-88.91512679	37.02961605	EPH	Non-Jurisdictional	48.5
02-S-77	-88.91872829	37.02759398	PER	Jurisdictional	3,706.50
02-S-77	-88.9228137	37.0257872	EPH	Non-Jurisdictional	54.9
02-S-78	-88.91646792	37.02841367	INT	Jurisdictional	429.4
02-S-79	-88.91660667	37.02792516	EPH	Non-Jurisdictional	61.4
02-S-80	-88.91788066	37.02784884	EPH	Non-Jurisdictional	36.2
02-S-81	-88.92080708	37.02744029	EPH	Non-Jurisdictional	109.5
02-S-82	-88.92089517	37.02723924	EPH	Non-Jurisdictional	152
02-S-83	-88.92066011	37.02689473	EPH	Non-Jurisdictional	184
02-S-84	-88.8716673	37.01281624	EPH	Non-Jurisdictional	445.4
02-S-85	-88.91030063	37.03546116	EPH	Non-Jurisdictional	56
02-S-86	-88.91526611	37.03760895	EPH	Non-Jurisdictional	102.5
03-S-35	-88.92236778	37.02104222	INT	Jurisdictional	1,964.60
03-S-36	-88.92479606	37.02049619	EPH	Non-Jurisdictional	43.6
03-S-37	-88.92464252	37.02110711	EPH	Non-Jurisdictional	305.7
03-S-38	-88.92447589	37.02080528	EPH	Non-Jurisdictional	17.3
03-S-39	-88.92488729	37.02118202	EPH	Non-Jurisdictional	61.6
03-S-40	-88.9249899	37.021301	EPH	Non-Jurisdictional	40.3
03-S-41	-88.92389124	37.02058508	EPH	Non-Jurisdictional	94.7
03-S-42	-88.92356343	37.020605	EPH	Non-Jurisdictional	60.4
03-S-43	-88.92245424	37.0207631	EPH	Non-Jurisdictional	194.9
03-S-44	-88.92280852	37.02196513	EPH	Non-Jurisdictional	1,021.30
03-S-45	-88.92378373	37.02233622	EPH	Non-Jurisdictional	37.9
03-S-46	-88.92365491	37.02199026	EPH	Non-Jurisdictional	345.8
03-S-47	-88.92428452	37.02186481	EPH	Non-Jurisdictional	156
03-S-48	-88.92263995	37.02239793	EPH	Non-Jurisdictional	391.2
03-S-49	-88.92075313	37.02076928	EPH	Non-Jurisdictional	636.4
03-S-50	-88.92101887	37.02102579	EPH	Non-Jurisdictional	28.4
03-S-51	-88.92010156	37.02051676	EPH	Non-Jurisdictional	46.6
03-S-52	-88.9197488	37.02068202	EPH	Non-Jurisdictional	113.6
03-S-53	-88.92071509	37.02144107	EPH	Non-Jurisdictional	208.8
03-S-54	-88.92397066	37.02461759	INT	Jurisdictional	999.1
03-S-55	-88.92359927	37.02504763	EPH	Non-Jurisdictional	37.9



Stream Name	Latitude	Longitude	Flow Class	Preliminary Jurisdictional Determination	Total Linear Feet
03-S-56	-88.9229136	37.02431654	EPH	Non-Jurisdictional	735.2
03-S-57	-88.92310565	37.02462362	EPH	Non-Jurisdictional	66
03-S-58	-88.92269746	37.02392419	EPH	Non-Jurisdictional	185.1
03-S-59	-88.923903	37.02561328	INT	Jurisdictional	485.3
03-S-60	-88.92397912	37.02553225	EPH	Non-Jurisdictional	75.9
03-S-61	-88.92458995	37.02576227	EPH	Non-Jurisdictional	46.8
03-S-62	-88.92272994	37.02583971	EPH	Non-Jurisdictional	39.9
03-S-63	-88.92275283	37.02668304	EPH	Non-Jurisdictional	421.4
03-S-64	-88.92363432	37.02700016	EPH	Non-Jurisdictional	101
03-S-65	-88.92400694	37.02714815	EPH	Non-Jurisdictional	379.1
03-S-66	-88.92446872	37.02735747	EPH	Non-Jurisdictional	133.2
03-S-67	-88.92473375	37.02898687	EPH	Non-Jurisdictional	444.9
03-S-68	-88.92567958	37.02889392	EPH	Non-Jurisdictional	439.7

¹ Pending official determination by the USACE

Table 4. Open Water Features Identified at the Song Sparrow Solar Project, Ballard County, Kentucky

Open Water Name	Latitude	Longitude	Cowardin Classification	Preliminary Jurisdictional Class¹	Total Area in Acres
01-OW-01	37.027520	-88.892400	PUBHx	Jurisdictional	1.38
01-OW-02	37.020968	-88.901075	PUBHx	Non-Jurisdictional	0.07
01-OW-03	37.019775	-88.911479	PUBHx	Non-Jurisdictional	0.03
02-OW-01	37.019001	-88.874721	PUBHx	Non-Jurisdictional	0.01
02-OW-02	37.018419	-88.877183	PUBHx	Non-Jurisdictional	0.02
02-OW-03	37.035888	-88.903121	PUBHx	Non-Jurisdictional	0.04
02-OW-04	37.037662	-88.905225	PUBHx	Non-Jurisdictional	0.04
02-OW-05	37.034448	-88.911935	PUBHx	Non-Jurisdictional	0.08
02-OW-06	37.033550	-88.910153	PUBHx	Non-Jurisdictional	0.02

¹ Pending official determination by the USACE

PUBHx = Palustrine Unconsolidated Bottom Permanently Flooded Excavated Pond



Appendix D PHOTOLOGS







Photograph ID: 1

Photo Location:

O1-OW-01

Preliminary Jurisdictional Class:

JD

GPS Location:

37.027520, -88.892400

Survey Date: 2/21/2023



Photograph ID: 2

Photo Location:

01-OW-02

Preliminary Jurisdictional Class:

Non-JD

GPS Location:

37.020968, -88.901075

Survey Date:

2/21/2023







Photograph ID: 3

Photo Location:

01-OW-03

Preliminary Jurisdictional Class:

Non-JD

GPS Location:

37.019775, -88.911479

Survey Date: 2/21/2023



Photograph ID: 4

Photo Location:

02-OW-01

Preliminary Jurisdictional Class:

Non-JD

GPS Location:

37.019001, -88.874721







Photograph ID: 5

Photo Location:

02-OW-02

Preliminary Jurisdictional Class:

Non-JD

GPS Location:

37.018419, -88.877183

Survey Date: 2/21/2023



Photograph ID: 6

Photo Location:

02-OW-03

Preliminary Jurisdictional

Class: Non-JD

GPS Location:

37.035888, -88.903121







Photograph ID: 7

Photo Location:

02-OW-04

Preliminary Jurisdictional Class:

Non-JD

GPS Location:

37.037662, -88.905225

Survey Date: 2/23/2023



Photograph ID: 8

Photo Location:

02-OW-05

Preliminary Jurisdictional

Class: Non-JD

GPS Location:

37.034448, -88.911935







Photograph ID: 9

Photo Location:

03-OW-02

Preliminary Jurisdictional Class:

Non-JD

GPS Location:

37.012439, -88.935512

Survey Date: 2/28/2023



Photograph ID: 10

Photo Location:

03-OW-03

Preliminary Jurisdictional Class:

JD

GPS Location:

37.020635, -88.931380

Survey Date:

3/1/2023





Photograph ID: 11

Photo Location:

03-OW-04

Preliminary Jurisdictional Class:

Non-JD

GPS Location:

37.021534, -88.929809

Survey Date:

3/1/2023







Photograph ID: 1

Stream ID: 01-S-01

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.0151, -88.88375

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 2

Stream ID: 01-S-01

Flow Class: EPH/UD

Jurisdictional Determination:

Latitude/Longitude: 37.01509, -88.88374

Photo Direction: Downstream View.







Photograph ID: 3

Stream ID: 01-S-02

Flow Class: INT/EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01524 , -88.88405

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 4

Stream ID: 01-S-02

Flow Class: INT/EPH/UD

Jurisdictional Determination:

Latitude/Longitude: 37.0153, -88.88374

Photo Direction: Downstream View.







Photograph ID: 5

Stream ID: 01-S-03

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01596 , -88.88279

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 6

Stream ID: 01-S-03

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01597, -88.88277

Photo Direction:

Downstream View.







Photograph ID: 7

Stream ID: 01-S-04

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01633 , -88.88349

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 8

Stream ID: 01-S-04

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude:

37.01609, -88.8833

Photo Direction:

Upstream View.

Survey Date:

2/20/2023







Photograph ID: 9

Stream ID: 01-S-05

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01816, -88.88214

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 10

Stream ID: 01-S-05

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01995, -88.88192

Photo Direction: Upstream View.







Photograph ID: 11

Stream ID: 01-S-06

Flow Class: INT/EPH

Jurisdictional Determination: JD

Latitude/Longitude: 37.02343 , -88.87763

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 12

Stream ID: 01-S-06

Flow Class: INT/EPH

Jurisdictional Determination: JD

Latitude/Longitude: 37.02341 , -88.87764

Photo Direction: Upstream View.







Photograph ID: 13

Stream ID: 01-S-07

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01983 , -88.88342

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 14

Stream ID: 01-S-07

Flow Class: EPH/UD

Jurisdictional Determination:

Latitude/Longitude: 37.01983 , -88.88342

Photo Direction: Downstream View.







Photograph ID: 15

Stream ID: 01-S-08

Flow Class: EPH/INT

Jurisdictional Determination: JD

Latitude/Longitude: 37.02013 , -88.88169

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 16

Stream ID: 01-S-08

Flow Class: EPH/INT

Jurisdictional Determination:

Latitude/Longitude: 37.02048 , -88.88141

Photo Direction: Upstream View.







Photograph ID: 17

Stream ID: 01-S-10

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02118 , -88.87981

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 18

Stream ID: 01-S-10

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02141, -88.87986

Photo Direction: Upstream View.







Photograph ID: 19

Stream ID: 01-S-11

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02226 , -88.87948

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 20

Stream ID: 01-S-11

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02227, -88.87948

Photo Direction: Upstream View.







Photograph ID: 21

Stream ID: 01-S-12

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02224 , -88.87893

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 22

Stream ID: 01-S-12

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02236, -88.87891

Photo Direction: Upstream View.







Photograph ID: 23

Stream ID: 01-S-13

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02227, -88.87859

Photo Direction:

Dwon

Survey Date: 2/20/2023



Photograph ID: 24

Stream ID: 01-S-13

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02244, -88.87867

Photo Direction:

Upstream View.







Photograph ID: 25

Stream ID: 01-S-14

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02226 , -88.87838

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 26

Stream ID: 01-S-15

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02653, -88.87848

Photo Direction: Upstream View.







Photograph ID: 27

Stream ID: 01-S-15

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02628 , -88.87829

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 28

Stream ID: 01-S-16

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02773, -88.87829

Photo Direction: Upstream View.





Photograph ID: 29

Stream ID: 01-S-16

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02773 , -88.87829

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 30

Stream ID: 01-S-17

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02796, -88.8795

Photo Direction: Upstream View.







Client: Project: **Song Sparrow Solar Project** Clearway Energy, Inc. Site Name: **Song Sparrow Solar** Site Location: **Ballard County, Kentucky**

Photograph ID: 31

Stream ID: 01-S-17

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02796, -88.87949

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 32

Stream ID: 01-S-18

Flow Class:

EPH

Jurisdictional **Determination:**

Latitude/Longitude: 37.02872, -88.87961

Photo Direction: Upstream View.

Survey Date:

2/20/2023







Client: Project: **Song Sparrow Solar Project** Clearway Energy, Inc. Site Name: **Song Sparrow Solar** Site Location: **Ballard County, Kentucky**

Photograph ID: 33

Stream ID: 01-S-18

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02873, -88.8798

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 34

Stream ID: 01-S-19

Flow Class:

PER

Jurisdictional **Determination:**

Latitude/Longitude: 37.03002, -88.88677

Photo Direction: Upstream View.







Photograph ID: 35

Stream ID: 01-S-19

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03003, -88.88676

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 36

Stream ID: 01-S-20

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03039 , -88.88004

37.03039 , -88.88002

Photo Direction:

Downstream View.







Photograph ID: 37

Stream ID: 01-S-20

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03043 , -88.88002

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 38

Stream ID: 01-S-21

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02874, -88.87955

Photo Direction: Upstream View.







Photograph ID: 39

Stream ID: 01-S-21

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02873 , -88.87957

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 40

Stream ID:

01-S-22

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.02689 , -88.88001

Photo Direction:

Upstream View.

Survey Date:

2/20/2023







Client: Project: **Song Sparrow Solar Project** Clearway Energy, Inc. Site Name: **Song Sparrow Solar** Site Location: **Ballard County, Kentucky**

Photograph ID: 41

Stream ID: 01-S-22

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02682, -88.88001

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 42

Stream ID:

01-S-23

Flow Class:

EPH

Jurisdictional **Determination:**

Latitude/Longitude:

37.02604, -88.88143

Photo Direction:

Upstream View.







Photograph ID: 43

Stream ID: 01-S-23

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02607, -88.88154

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 44

Stream ID: 01-S-24

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02604, -88.88216

Photo Direction: Downstream View.







Photograph ID: 45

Stream ID: 01-S-24

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02581 , -88.88176

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 46

Stream ID:

01-S-25

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.02511, -88.88136

Photo Direction:

Upstream View.







Photograph ID: 47

Stream ID: 01-S-25

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.02561 , -88.88157

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 48

Stream ID: 01-S-26

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02538, -88.88241

Photo Direction:

Upstream View.







Photograph ID: 49

Stream ID: 01-S-26

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02537, -88.88243

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 50

Stream ID:

01-S-27

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.02536 , -88.88239

Photo Direction:

Upstream View.







Photograph ID: 51

Stream ID: 01-S-27

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02533, -88.88236

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 52

Stream ID: 01-S-28

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02535, -88.88298

Photo Direction: Downstream View.

Downstream view







Photograph ID: 53

Stream ID: 01-S-28

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0253, -88.88289

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 54

Stream ID: 01-S-29

Flow Class: EPH/UD

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02498 , -88.88397

Photo Direction: Downstream View.







Photograph ID: 55

Stream ID: 01-S-29

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.02494 , -88.88376

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 56

Stream ID: 01-S-30

Flow Class: EPH

Jurisdictional Determination:

Latitude/Longitude: 37.02451, -88.88326

Photo Direction: Downstream View.







Photograph ID: 57

Stream ID: 01-S-30

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02459 , -88.88329

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 58

Stream ID: 01-S-31

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02413, -88.88356

Photo Direction: Upstream View.







Photograph ID: 59

Stream ID: 01-S-31

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02409 , -88.88352

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 60

Stream ID: 01-S-33

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02354, -88.88417

Photo Direction: Upstream View.

Survey Date:

2/20/2023







Photograph ID: 61

Stream ID: 01-S-33

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02345 , -88.88413

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 62

Stream ID: 01-S-34

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03004 , -88.88435

Photo Direction: Upstream View.







Photograph ID: 63

Stream ID: 01-S-34

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02995 , -88.88438

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 64

Stream ID: 01-S-35

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.02996 , -88.8846

Photo Direction: Upstream View.







Photograph ID: 65

Stream ID: 01-S-35

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03004 , -88.88446

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 66

Stream ID: 01-S-36

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.02958, -88.88583

37.02958 , -88.88583

Photo Direction: Upstream View.







Photograph ID: 67

Stream ID: 01-S-36

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.02957, -88.88583

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 68

Stream ID: 01-S-37

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02986, -88.88683

Photo Direction: Upstream View.







Photograph ID: 69

Stream ID: 01-S-37

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03002 , -88.8868

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 70

Stream ID: 01-S-38

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02994, -88.88695

Photo Direction: Downstream View.







Photograph ID: 71

Stream ID: 01-S-38

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03001 , -88.88694

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 72

Stream ID:

01-S-39

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02994, -88.88716

Photo Direction: Upstream View.

Survey Date:

2/21/2023







Photograph ID: 73

Stream ID: 01-S-39

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02992 , -88.88716

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 74

Stream ID: 01-S-40

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02997, -88.88728

Photo Direction: Upstream View.







Photograph ID: 75

Stream ID: 01-S-40

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02995 , -88.88729

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 76

Stream ID:

01-S-41

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.02994, -88.88748

Photo Direction:

Downstream View.

Survey Date:

2/21/2023







Photograph ID: 77

Stream ID: 01-S-41

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02995 , -88.88748

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 78

Stream ID: 01-S-42

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03016, -88.88766

Photo Direction: Upstream View.







Photograph ID: 79

Stream ID: 01-S-42

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03015, -88.88766

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 80

Stream ID: 01-S-43

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02991, -88.88788

Photo Direction: Downstream View.







Photograph ID: 81

Stream ID: 01-S-43

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02994 , -88.8879

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 82

Stream ID: 01-S-44

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02345, -88.88461

Photo Direction:

Upstream View.

Survey Date: 3/14/2023







Photograph ID: 83

Stream ID: 01-S-45

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0275, -88.88871

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 84

Stream ID: 01-S-45

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0275, -88.88872

Photo Direction:

Upstream View.







Photograph ID: 85

Stream ID: 01-S-46

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02615, -88.89822

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 86

Stream ID: 01-S-46

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02616, -88.89821

Photo Direction: Upstream View.







Photograph ID: 87

Stream ID: 01-S-47

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02601 , -88.89379

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 88

Stream ID: 01-S-47

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02601, -88.89379

37.02601, -88.89378

Photo Direction:

Downstream View.







Photograph ID: 89

Stream ID: 01-S-48

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02584 , -88.89357

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 90

Stream ID: 01-S-48

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02584, -88.89357

Photo Direction:

Downstream View.







Photograph ID: 91

Stream ID: 01-S-49

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02633 , -88.89354

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 92

Stream ID:

01-S-49

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude:

37.02633 , -88.89354

Photo Direction:

Downstream View.







Photograph ID: 93

Stream ID: 01-S-50

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02703 , -88.89799

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 94

Stream ID: 01-S-50

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02703 , -88.898

Photo Direction: Downstream View.







Photograph ID: 95

Stream ID: 01-S-51

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02736 , -88.89752

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 96

Stream ID: 01-S-51

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02736 , -88.89752

Photo Direction: Upstream View.

Survey Date:

2/21/2023







Photograph ID: 97

Stream ID: 01-S-52

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02743 , -88.89608

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 98

Stream ID: 01-S-52

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02743, -88.89608

Photo Direction: Downstream View.







Photograph ID: 99

Stream ID: 01-S-53

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02509, -88.89823

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 100

Stream ID: 01-S-53

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02509, -88.89823

Photo Direction: Downstream View.







Photograph ID: 1

Stream ID: 01-S-54

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02316, -88.88466

Photo Direction: Upstream View.

Survey Date: 3/14/2023



Photograph ID: 2

Stream ID: 01-S-54

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02316, -88.88466

Photo Direction: Downstream View.

Survey Date: 3/14/2023







Photograph ID: 3

Stream ID: 01-S-55

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02433 , -88.89723

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 4

Stream ID: 01-S-55

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02432, -88.89724

Photo Direction: Downstream View.







Photograph ID: 5

Stream ID: 01-S-56

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02444 , -88.89651

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 6

Stream ID: 01-S-56

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02444, -88.89651

Photo Direction: Downstream View.







Photograph ID: 7

Stream ID: 01-S-57

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02402 , -88.8962

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 8

Stream ID: 01-S-57

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02401, -88.89619

Photo Direction: Downstream View.

Downstiean view







Photograph ID: 9

Stream ID: 01-S-58

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02432 , -88.89496

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 10

Stream ID: 01-S-58

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02432 , -88.89496

Photo Direction: Downstream View.







Photograph ID: 11

Stream ID: 01-S-59

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02398 , -88.8946

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 12

Stream ID: 01-S-59

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02399, -88.89462

Photo Direction: Downstream View.







Photograph ID: 13

Stream ID: 01-S-60

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02388 , -88.8944

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 14

Stream ID: 01-S-60

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0239, -88.8944

Photo Direction:

Downstream View.







Photograph ID: 15

Stream ID: 01-S-61

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02346 , -88.89414

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 16

Stream ID: 01-S-61

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02346, -88.89414

Photo Direction: Downstream View.







Photograph ID: 17

Stream ID: 01-S-62

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02347, -88.89414

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 18

Stream ID:

01-S-62

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.0234 , -88.89422

Photo Direction:

Downstream View.

Survey Date:

2/21/2023







Photograph ID: 19

Stream ID: 01-S-63

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02356 , -88.89331

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 20

Stream ID: 01-S-63

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02356, -88.89331

Photo Direction:

Downstream View.







Photograph ID: 21

Stream ID: 01-S-64

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02417, -88.89299

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 22

Stream ID: 01-S-64

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02418 , -88.893

Photo Direction: Downstream View.







Photograph ID: 23

Stream ID: 01-S-65

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02438 , -88.89277

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 24

Stream ID: 01-S-65

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02424 , -88.89283

Photo Direction: Upstream View.







Photograph ID: 25

Stream ID: 01-S-66

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02414, -88.89267

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 26

Stream ID: 01-S-66

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02424 , -88.89266

Photo Direction: Upstream View.







Photograph ID: 27

Stream ID: 01-S-67

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02444 , -88.89258

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 28

Stream ID: 01-S-68

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02428 , -88.89244

Photo Direction: Upstream View.







Photograph ID: 29

Stream ID: 01-S-69

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02419, -88.89181

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 30

Stream ID: 01-S-69

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02407, -88.89133

Photo Direction:

Downstream View.







Photograph ID: 31

Stream ID: 01-S-70

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0239, -88.89109

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 32

Stream ID: 01-S-70

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02404 , -88.89138

Photo Direction: Upstream View.







Photograph ID: 33

Stream ID: 01-S-71

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02358 , -88.89319

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 34

Stream ID: 01-S-71

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02357, -88.89315

Photo Direction: Downstream View.







Photograph ID: 35

Stream ID: 01-S-72

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01998, -88.90147

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 36

Stream ID: 01-S-72

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01998 , -88.90147

Photo Direction: Downstream View.







Photograph ID: 37

Stream ID: 01-S-73

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0219, -88.89688

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 38

Stream ID: 01-S-73

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02187, -88.89687

Photo Direction: Downstream View.







Photograph ID: 39

Stream ID: 01-S-74

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02189, -88.89704

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 40

Stream ID: 01-S-74

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02191, -88.89704

Photo Direction: Downstream View.







Photograph ID: 41

Stream ID: 01-S-75

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02151 , -88.89709

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 42

Stream ID: 01-S-75

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02157, -88.89722

Photo Direction:

Downstream View.







Photograph ID: 43

Stream ID: 01-S-76

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02173 , -88.89814

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 44

Stream ID: 01-S-76

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02171, -88.89812

Photo Direction:

Downstream View.







Photograph ID: 45

Stream ID: 01-S-77

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02159 , -88.89883

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 46

Stream ID:

01-S-77

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.02165 , -88.8988

Photo Direction:

Downstream View.

Survey Date:

2/22/2023







Photograph ID: 1

Stream ID: 01-S-78

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01979 , -88.90212

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 2

Stream ID: 01-S-78

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01979 , -88.90211

Photo Direction:

Downstream View.







Photograph ID: 3

Stream ID: 01-S-79

Flow Class: EPH

Jurisdictional Determination: JD

Latitude/Longitude: 37.02076 , -88.90208

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 4

Stream ID: 01-S-79

Flow Class:

EPH

Jurisdictional Determination:

Latitude/Longitude: 37.02078 , -88.90205

Photo Direction: Downstream View.







Photograph ID: 5

Stream ID: 01-S-80

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02933 , -88.91295

Photo Direction: Upstream View.

Survey Date: 2/28/2023



Photograph ID: 6

Stream ID: 01-S-80

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02933 , -88.91295

Photo Direction: Downstream View.







Photograph ID: 7

Stream ID: 01-S-81

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02038 , -88.90498

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 8

Stream ID: 01-S-81

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02038 , -88.90498

Photo Direction: Upstream View.







Photograph ID: 9

Stream ID: 01-S-82

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01921 , -88.904

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 10

Stream ID: 01-S-82

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01921 , -88.90399

Photo Direction:

Upstream View.







Photograph ID: 11

Stream ID: 01-S-83

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01229 , -88.91549

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 12

Stream ID: 01-S-83

Flow Class: EPH/UD

Jurisdictional Determination:

Latitude/Longitude: 37.01226 , -88.91549

Photo Direction: Upstream View.







Photograph ID: 13

Stream ID: 01-S-84

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01288 , -88.91334

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 14

Stream ID: 01-S-84

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01288 , -88.91334

Photo Direction: Downstream View.







Photograph ID: 15

Stream ID: 01-S-85

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01411 , -88.91269

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 16

Stream ID: 01-S-85

Flow Class:

EPH Jurisdictional

Determination: JD

Latitude/Longitude: 37.01411, -88.91268

Photo Direction: Downstream View.







Photograph ID: 17

Stream ID: 01-S-86

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.0159, -88.91486

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 18

Stream ID: 01-S-86

Flow Class: EPH/UD

Jurisdictional Determination:

Latitude/Longitude: 37.0159, -88.91486

Photo Direction: Downstream View.







Photograph ID: 19

Stream ID: 01-S-87

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01929 , -88.91573

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 20

Stream ID: 01-S-87

Flow Class: EPH/UD

Jurisdictional Determination:

Latitude/Longitude: 37.01786 , -88.91396

Photo Direction: Downstream View.







Photograph ID: 21

Stream ID: 01-S-87

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01787, -88.91396

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 22

Stream ID: 01-S-87

Flow Class: EPH/UD

Jurisdictional Determination:

Latitude/Longitude: 37.01929 , -88.91573

Photo Direction: Downstream View.







Photograph ID: 23

Stream ID: 01-S-88

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03086 , -88.91399

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 24

Stream ID: 01-S-88

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03079 , -88.91408

Photo Direction: Downstream View.







Photograph ID: 25

Stream ID: 01-S-89

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01986 , -88.91457

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 26

Stream ID: 01-S-89

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01986 , -88.91456

Photo Direction: Downstream View.







Photograph ID: 27

Stream ID: 01-S-89

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01977, -88.91359

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 28

Stream ID: 01-S-89

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01977, -88.91358

Photo Direction: Downstream View.







Photograph ID: 29

Stream ID: 01-S-90

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0307, -88.91444

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 30

Stream ID: 01-S-90

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03072 , -88.91424

Photo Direction: Downstream View.







Photograph ID: 31

Stream ID: 01-S-91

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03048 , -88.91451

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 32

Stream ID: 01-S-91

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03048 , -88.91451

Photo Direction: Downstream View.

Downstieam view







Photograph ID: 33

Stream ID: 01-S-92

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02991 , -88.91482

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 34

Stream ID: 01-S-92

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02993, -88.91483

Photo Direction: Downstream View.







Photograph ID: 35

Stream ID: 01-S-93

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03024 , -88.91464

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 36

Stream ID: 01-S-93

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03024 , -88.91464

Photo Direction: Downstream View.







Photograph ID: 37

Stream ID: 01-S-94

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03153, -88.91447

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 38

Stream ID: 01-S-94

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.03151 , -88.9145

Photo Direction: Downstream View.







Photograph ID: 39

Stream ID: 01-S-95

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03179 , -88.91479

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 40

Stream ID:

01-S-95

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03182, -88.91451

Photo Direction:

Downstream View.







Photograph ID: 41

Stream ID: 01-S-96

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03333 , -88.91544

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 42

Stream ID: 01-S-97

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03414, -88.91593

Photo Direction:

Downstream View.







Photograph ID: 43

Stream ID: 01-S-97

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03414, -88.91593

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 44

Stream ID: 01-S-98

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03486, -88.91619

Photo Direction: Downstream View.







Photograph ID: 45

Stream ID: 01-S-98

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03486 , -88.91618

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 46

Stream ID: 01-S-99

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03521, -88.91614

Photo Direction: Downstream View.







Photograph ID: 47

Stream ID: 01-S-99

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0352, -88.91614

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 48

Stream ID: 01-S-100

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.035262, -88.917135

Photo Direction: Upstream View.

Survey Date: 2/23/2023

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Photograph ID: 49

Stream ID: 01-S-100

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.035262 , -88.917135

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 50

Stream ID: 01-S-101

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02986, -88.91403

Photo Direction: Downstream View.







Photograph ID: 51

Stream ID: 01-S-101

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02974 , -88.91393

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 52

Stream ID: 01-S-102

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02913, -88.9131

Photo Direction:

Downstream View.







Photograph ID: 53

Stream ID: 01-S-102

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02914 , -88.91309

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 54

Stream ID: 01-S-102

Flow Class: EPH/UD

Jurisdictional Determination:

Latitude/Longitude: 37.02568, -88.91343

Photo Direction: Downstream View.







Photograph ID: 55

Stream ID: 01-S-102

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.02566944, -88.91344722

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 56

Stream ID: 01-S-103

Flow Class: EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02892 , -88.91302

Photo Direction: Upstream View.







Photograph ID: 57

Stream ID: 01-S-103

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02892 , -88.91302

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 58

Stream ID: 01-S-104

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02719, -88.91337

Photo Direction: Downstream View.

Survey Date:

2/23/2023







Photograph ID: 59

Stream ID: 01-S-104

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02726 , -88.91325

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 60

Stream ID: 01-S-105

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02093, -88.90919

Photo Direction: Upstream View.





Song Sparrow Solar Project Client: Clearway Energy Group, LLC Project: Site Name: **Song Sparrow Solar** Site Location: **Ballard County, KY** Photograph ID: 61 Stream ID: 01-S-105 Flow Class: INT Jurisdictional **Determination:** JD Latitude/Longitude: 37.02094 , -88.90916 **Photo Direction:** Downstream View. Survey Date: 2/23/2023





Photograph ID: 1

Stream ID: 01-S-106

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02083 , -88.90797

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 2

Stream ID: 01-S-106

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02083 , -88.90798

Photo Direction: Downstream View.







Photograph ID: 3

Stream ID: 01-S-107

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02014 , -88.90836

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 4

Stream ID: 01-S-107

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02014, -88.90836

Photo Direction: Upstream View.







Photograph ID: 5

Stream ID: 01-S-108

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02153 , -88.90924

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 6

Stream ID: 01-S-108

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02153, -88.90924

Photo Direction: Upstream View.







Photograph ID: 7

Stream ID: 01-S-109

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02236 , -88.90804

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 8

Stream ID: 01-S-109

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02236, -88.90804

Photo Direction: Upstream View.







Client: Project: **Song Sparrow Solar Project** Clearway Energy, Inc. Site Name: **Song Sparrow Solar** Site Location: **Ballard County, Kentucky**

Photograph ID: 9

Stream ID: 01-S-110

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02012, -88.90642

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 10

Stream ID: 01-S-110

Flow Class:

INT

Jurisdictional **Determination:**

Latitude/Longitude: 37.02013, -88.90646

Photo Direction: Upstream View.

Survey Date:

2/23/2023







Photograph ID: 11

Stream ID: 01-S-111

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01992 , -88.90527

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 12

Stream ID: 01-S-111

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01992 , -88.90528

Photo Direction: Upstream View.







Photograph ID: 13

Stream ID: 01-S-112

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02054 , -88.90601

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 14

Stream ID: 01-S-112

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02054, -88.90602

Photo Direction: Downstream View.







Photograph ID: 15

Stream ID: 01-S-113

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0213, -88.91591

Photo Direction: Downstream View.

Survey Date: 2/24/2023



Photograph ID: 16

Stream ID: 01-S-113

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0213, -88.91591

Photo Direction: Upstream View.







Photograph ID: 17

Stream ID: 01-S-114

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02124 , -88.91583

Photo Direction: Upstream View.

Survey Date: 2/24/2023



Photograph ID: 18

Stream ID: 01-S-114

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02124 , -88.91584

Photo Direction: Downstream View.







Photograph ID: 19

Stream ID: 01-S-115

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02366 , -88.91486

Photo Direction: Downstream View.

Survey Date: 2/24/2023



Photograph ID: 20

Stream ID: 01-S-115

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02371 , -88.91476

Photo Direction: Upstream View.







Photograph ID: 21

Stream ID: 01-S-116

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02649 , -88.91464

Photo Direction: Downstream View.

Survey Date: 2/24/2023



Photograph ID: 22

Stream ID: 01-S-116

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02664, -88.9145

Photo Direction: Upstream View.







Photograph ID: 23

Stream ID: 01-S-116

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02376 , -88.91641

Photo Direction: Downstream View.

Survey Date: 2/24/2023



Photograph ID: 24

Stream ID: 01-S-116

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02376, -88.91641

Photo Direction: Upstream View.







Photograph ID: 25

Stream ID: 01-S-117

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02419 , -88.91624

Photo Direction: Upstream View.

Survey Date: 2/24/2023



Photograph ID: 26

Stream ID: 01-S-117

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02421, -88.91627

Photo Direction: Downstream View.







Photograph ID: 27

Stream ID: 01-S-118

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02755 , -88.91528

Photo Direction: Downstream View.

Survey Date: 2/24/2023



Photograph ID: 28

Stream ID: 01-S-118

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02773, -88.91506

Photo Direction: Upstream View.







Photograph ID: 1

Stream ID: 02-S-01

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02632 , -88.87805

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 2

Stream ID: 02-S-01

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02632 , -88.87804

Photo Direction: Downstream View.







Photograph ID: 3

Stream ID: 02-S-02

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0183, -88.86913

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 4

Stream ID: 02-S-02

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0183, -88.86912

37.0183 , -88.86912

Photo Direction: Downstream View.

Downouroum view







Photograph ID: 5

Stream ID: 02-S-03

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01818 , -88.86632

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 6

Stream ID: 02-S-03

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude:

37.0182 , -88.86637

Photo Direction: Upstream View.

Survey Date:

2/20/2023







Photograph ID: 7

Stream ID: 02-S-04

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01828 , -88.86594

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 8

Stream ID: 02-S-04

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude:

37.01828 , -88.86594

Photo Direction: Upstream View.







Photograph ID: 9

Stream ID: 02-S-05

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01846 , -88.86485

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 10

Stream ID: 02-S-05

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01846 , -88.86485

Photo Direction:

Upstream View.







Photograph ID: 11

Stream ID: 02-S-06

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01852 , -88.8648

Photo Direction: Downstream View.

Survey Date: 2/20/2023



Photograph ID: 12

Stream ID: 02-S-06

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude:

37.0185 , -88.8648

Photo Direction: Upstream View.







Photograph ID: 13

Stream ID: 02-S-07

Flow Class:

INT

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01903, -88.86437

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 14

Stream ID: 02-S-07

Flow Class:

INT

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01905, -88.86433

Photo Direction: Downstream View.







Photograph ID: 15

Stream ID: 02-S-08

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01637, -88.86412

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 16

Stream ID: 02-S-08

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude:

37.01637, -88.86412

Photo Direction:

Downstream View.







Photograph ID: 17

Stream ID: 02-S-09

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.02023 , -88.86806

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 18

Stream ID: 02-S-09

Flow Class: EPH/UD

Jurisdictional Determination:

Latitude/Longitude: 37.02023 , -88.86805

Photo Direction: Downstream View.







Photograph ID: 19

Stream ID: 02-S-10

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01949 , -88.87308

Photo Direction: Upstream View.

Survey Date: 2/20/2023



Photograph ID: 20

Stream ID: 02-S-10

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01951, -88.87304

Photo Direction: Downstream View.







Photograph ID: 21

Stream ID: 02-S-12

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01565, -88.87163

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 22

Stream ID: 02-S-12

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01566, -88.87163

Photo Direction: Upstream View.







Photograph ID: 23

Stream ID: 02-S-13

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01619 , -88.87337

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 24

Stream ID: 02-S-13

Flow Class: EPH/UD

Jurisdictional Determination:

Latitude/Longitude: 37.01619 , -88.87337

Photo Direction: Downstream View.







Photograph ID: 25

Stream ID: 02-S-14

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01733 , -88.87486

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 26

Stream ID: 02-S-14

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01733 , -88.87486

Photo Direction: Upstream View.

Survey Date:

2/21/2023







Photograph ID: 27

Stream ID: 02-S-15

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01739 , -88.87484

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 28

Stream ID: 02-S-15

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01739 , -88.87484

Photo Direction: Upstream View.







Photograph ID: 29

Stream ID: 02-S-16

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01754 , -88.87479

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 30

Stream ID: 02-S-16

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01754 , -88.87479

Photo Direction: Downstream View.







Photograph ID: 31

Stream ID: 02-S-17

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01859 , -88.87502

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 32

Stream ID: 02-S-17

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0186, -88.87502

Photo Direction:

Upstream View.







Photograph ID: 33

Stream ID: 02-S-18

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01859 , -88.87506

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 34

Stream ID: 02-S-18

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01859, -88.87504

Photo Direction: Upstream View.







Photograph ID: 35

Stream ID: 02-S-19

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01898 , -88.87532

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 36

Stream ID: 02-S-19

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01894 , -88.87542

Photo Direction: Downstream View.







Photograph ID: 37

Stream ID: 02-S-20

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01875, -88.87558

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 38

Stream ID: 02-S-20

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01875, -88.87558

Photo Direction: Downstream View.







Photograph ID: 39

Stream ID: 02-S-21

Flow Class:

INT

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01839 , -88.87613

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 40

Stream ID: 02-S-21

Flow Class:

INT

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01841, -88.87627

Photo Direction: Downstream View.







Photograph ID: 41

Stream ID: 02-S-22

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01801 , -88.87682

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 42

Stream ID: 02-S-22

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude:

37.018, -88.87683

Photo Direction:

Downstream View.

Survey Date:

2/21/2023







Photograph ID: 43

Stream ID: 02-S-23

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01898 , -88.8753

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 44

Stream ID: 02-S-23

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.01896 , -88.8753

Photo Direction:

Downstream View.







Photograph ID: 45

Stream ID: 02-S-24

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01913 , -88.87476

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 46

Stream ID:

02-S-24

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.01913 , -88.87479

Photo Direction:

Downstream View.

Survey Date:

2/21/2023







Photograph ID: 47

Stream ID: 02-S-26

Flow Class: PER/INT

Jurisdictional Determination: JD

Latitude/Longitude: 37.01569, -88.87489

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 48

Stream ID: 02-S-26

Flow Class: PER/INT

Jurisdictional Determination:

Latitude/Longitude: 37.01569, -88.87489

Photo Direction: Downstream View.







Photograph ID: 49

Stream ID: 02-S-27

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01731 , -88.87865

Photo Direction: Downstream View.

Survey Date: 2/21/2023



Photograph ID: 50

Stream ID: 02-S-27

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude:

37.0173 , -88.87864

Photo Direction: Upstream View.







Photograph ID: 51

Stream ID: 02-S-28

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01853, -88.87718

Photo Direction: Upstream View.

Survey Date: 2/21/2023



Photograph ID: 52

Stream ID: 02-S-28

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01853, -88.87718

Photo Direction:

Downstream View.

Survey Date:

2/21/2023







Photograph ID: 53

Stream ID: 02-S-29

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01478 , -88.8724

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 54

Stream ID: 02-S-29

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01478 , -88.8724

Photo Direction: Upstream View.







Photograph ID: 55

Stream ID: 02-S-30

Flow Class:

EPH

Jurisdictional Determination: Non-JD

Latitude/Longitude: 37.01365 , -88.87265

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 56

Stream ID: 02-S-30

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01365, -88.87264

Photo Direction: Upstream View.







Photograph ID: 57

Stream ID: 02-S-31

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.0117, -88.87129

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 58

Stream ID: 02-S-31

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude:

37.0117, -88.87128

Photo Direction:

Upstream View.







Photograph ID: 59

Stream ID: 02-S-32

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01197, -88.87143

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 60

Stream ID: 02-S-32

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01196 , -88.87144

Photo Direction: Upstream View.







Photograph ID: 61

Stream ID: 02-S-33

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01374 , -88.8779

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 62

Stream ID: 02-S-33

Flow Class: EPH/UD

Jurisdictional Determination:

Latitude/Longitude: 37.01374 , -88.8779

Photo Direction: Downstream View.







Photograph ID: 63

Stream ID: 02-S-34

Flow Class:

UD

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01386 , -88.87908

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 64

Stream ID: 02-S-34

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01386 , -88.87908

Photo Direction: Downstream View.







Photograph ID: 65

Stream ID: 02-S-35

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01413 , -88.87921

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 66

Stream ID: 02-S-35

Flow Class:

UD

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01412, -88.8792

37.01412 , -88.8792

Photo Direction: Upstream View.







Photograph ID: 67

Stream ID: 02-S-36

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01256 , -88.87862

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 68

Stream ID: 02-S-36

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01256, -88.87861

Photo Direction: Upstream View.







Photograph ID: 69

Stream ID: 02-S-37

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01491, -88.87599

Photo Direction: Downstream View.

Survey Date: 2/22/2023



Photograph ID: 70

Stream ID: 02-S-37

Flow Class: EPH/UD

Jurisdictional Determination: JD

Latitude/Longitude: 37.01589, -88.87896

Photo Direction: Upstream View.







Photograph ID: 71

Stream ID: 02-S-38

Flow Class:

EPH

Jurisdictional Determination: Non-JD

Latitude/Longitude: 37.01979 , -88.87718

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 72

Stream ID: 02-S-38

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.01979 , -88.87718

Photo Direction: Downstream View.







Photograph ID: 73

Stream ID: 02-S-39

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.02058 , -88.87716

Photo Direction: Upstream View.

Survey Date: 2/22/2023



Photograph ID: 74

Stream ID: 02-S-39

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.02058, -88.87717

Photo Direction:

Downstream View.







Photograph ID: 75

Stream ID: 02-S-40

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03614, -88.90399

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 76

Stream ID: 02-S-40

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03613, -88.90398

Photo Direction: Downstream View.







Photograph ID: 77

Stream ID: 02-S-41

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03594, -88.90394

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 78

Stream ID: 02-S-41

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03595, -88.90395

Photo Direction: Upstream View.







Photograph ID: 79

Stream ID: 02-S-42

Flow Class:

EPH

Jurisdictional Determination: Non-JD

Latitude/Longitude: 37.03523 , -88.90451

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 80

Stream ID: 02-S-42

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude:

37.03523 , -88.9045

Photo Direction: Upstream View.

Survey Date: 2/23/2023

e: 5







Photograph ID: 81

Stream ID: 02-S-43

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03528 , -88.90636

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 82

Stream ID: 02-S-43

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03528 , -88.90636

Photo Direction:

Upstream View.







Photograph ID: 83

Stream ID: 02-S-44

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03533 , -88.9064

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 84

Stream ID: 02-S-44

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03533, -88.9064

Photo Direction:

Upstream View.







Photograph ID: 85

Stream ID: 02-S-45

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03711 , -88.90496

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 86

Stream ID: 02-S-45

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03711, -88.90496

Photo Direction: Upstream View.







Photograph ID: 87

Stream ID: 02-S-46

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03736 , -88.90481

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 88

Stream ID: 02-S-46

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03736, -88.90481

Photo Direction:

Upstream View.







Photograph ID: 89

Stream ID: 02-S-47

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03697, -88.90553

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 90

Stream ID: 02-S-47

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03697, -88.90553

Photo Direction:

Upstream View.







Photograph ID: 91

Stream ID: 02-S-48

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03838 , -88.90646

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 92

Stream ID: 02-S-48

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03838 , -88.90646

Photo Direction: Downstream View.







Photograph ID: 93

Stream ID: 02-S-49

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03848 , -88.90651

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 94

Stream ID: 02-S-49

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03847, -88.9065

Photo Direction:

Downstream View.







Photograph ID: 95

Stream ID: 02-S-50

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03828 , -88.90607

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 96

Stream ID: 02-S-50

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03828 , -88.90608

Photo Direction: Upstream View.







Photograph ID: 97

Stream ID: 02-S-51

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03844 , -88.90774

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 98

Stream ID: 02-S-51

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03844, -88.90773

Photo Direction:

Upstream View.







Photograph ID: 99

Stream ID: 02-S-52

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0353, -88.90749

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 100

Stream ID: 02-S-52

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03554, -88.90746

Photo Direction: Upstream View.







Photograph ID: 101

Stream ID: 02-S-53

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03531 , -88.9076

Photo Direction: Downstream View.

Survey Date: 2/23/2023



Photograph ID: 102

Stream ID: 02-S-53

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03527, -88.90761

Photo Direction: Upstream View.







Photograph ID: 103

Stream ID: 02-S-54

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0353, -88.90796

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 104

Stream ID: 02-S-54

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0353, -88.90796

Photo Direction:

Downstream View.







Photograph ID: 105

Stream ID: 02-S-55

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03367, -88.91289

Photo Direction: Upstream View.

Survey Date: 2/23/2023



Photograph ID: 106

Stream ID: 02-S-55

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03367, -88.91289

Photo Direction: Downstream View.







Photograph ID: 107

Stream ID: 02-S-56

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03687, -88.9019

Photo Direction: Downstream View.

Survey Date: 2/28/2023



Photograph ID: 108

Stream ID: 02-S-56

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03687, -88.9019

Photo Direction:

Upstream View.







Photograph ID: 109

Stream ID: 02-S-57

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03807, -88.90246

Photo Direction: Upstream View.

Survey Date: 2/28/2023



Photograph ID: 110

Stream ID: 02-S-57

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03809, -88.90242

Photo Direction: Downstream View.







Photograph ID: 111

Stream ID: 02-S-58

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03401 , -88.91409

Photo Direction: Upstream View.

Survey Date: 2/28/2023



Photograph ID: 112

Stream ID: 02-S-58

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03401, -88.91408

Photo Direction: Downstream View.







Photograph ID: 113

Stream ID: 02-S-59

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03176 , -88.91416

Photo Direction: Downstream View.

Survey Date: 2/28/2023



Photograph ID: 114

Stream ID: 02-S-59

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03176, -88.91416

Photo Direction: Upstream View.







Photograph ID: 115

Stream ID: 02-S-61

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02813, -88.91231

Photo Direction: Downstream View.

Survey Date: 2/28/2023



Photograph ID: 116

Stream ID: 02-S-61

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02815, -88.91231

Photo Direction: Upstream View.







Photograph ID: 117

Stream ID: 02-S-62

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03522 , -88.91061

Photo Direction: Downstream View.

Survey Date: 2/28/2023



Photograph ID: 118

Stream ID: 02-S-62

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03524, -88.91061

Photo Direction:

Upstream View.







Photograph ID: 1

Stream ID: 02-S-63

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02811, -88.91239

Photo Direction: Upstream View.

Survey Date: 2/28/2023



Photograph ID: 2

Stream ID: 02-S-63

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.02811 , -88.91238

Photo Direction:

Downstream View.







Photograph ID: 3

Stream ID: 02-S-64

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03547, -88.91034

Photo Direction: Upstream View.

Survey Date: 2/28/2023



Photograph ID: 4

Stream ID: 02-S-64

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03547, -88.91031

Photo Direction:

Downstream View.







Photograph ID: 5

Stream ID: 02-S-65

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0266, -88.91089

Photo Direction: Downstream View.

Survey Date: 2/28/2023



Photograph ID: 6

Stream ID: 02-S-65

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02661, -88.91089

Photo Direction: Upstream View.







Photograph ID: 7

Stream ID: 02-S-66

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02622 , -88.91081

Photo Direction: Downstream View.

Survey Date: 2/28/2023



Photograph ID: 8

Stream ID: 02-S-66

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02621 , -88.91081

Photo Direction: Upstream View.







Photograph ID: 9

Stream ID: 02-S-67

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02436 , -88.90892

Photo Direction: Downstream View.

Survey Date: 2/28/2023



Photograph ID: 10

Stream ID: 02-S-67

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02436, -88.90892

Photo Direction: Upstream View.







Photograph ID: 11

Stream ID: 02-S-68

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03598 , -88.91418

Photo Direction: Upstream View.

Survey Date: 2/28/2023

Photograph ID: 12

Stream ID: 02-S-68

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03597, -88.91418

Photo Direction:
Downstream View.









Photograph ID: 13

Stream ID: 02-S-69

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03605, -88.91411

Photo Direction: Upstream View.

Survey Date: 2/28/2023

Photograph ID: 14

Stream ID: 02-S-69

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03602, -88.91405

Photo Direction: Downstream View.









Photograph ID: 15

Stream ID: 02-S-70

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03659, -88.91459

Photo Direction: Upstream View.

Survey Date: 3/1/2023



Photograph ID: 16

Stream ID: 02-S-70

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03659, -88.91454

Photo Direction:

Downstream View.







Photograph ID: 17

Stream ID: 02-S-71

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03637, -88.91339

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 18

Stream ID: 02-S-71

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03636, -88.91341

Photo Direction:

Upstream View.







Photograph ID: 19

Stream ID: 02-S-72

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03801 , -88.91194

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 20

Stream ID: 02-S-72

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03802, -88.91193

Photo Direction:

Upstream View.







Photograph ID: 21

Stream ID: 02-S-73

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03796 , -88.91068

Photo Direction: Upstream View.

Survey Date: 3/1/2023



Photograph ID: 22

Stream ID: 02-S-73

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.03796, -88.91069

Photo Direction: Downstream View.







Photograph ID: 23

Stream ID: 02-S-74

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0381, -88.91006

Photo Direction: Upstream View.

Survey Date: 3/1/2023



Photograph ID: 24

Stream ID: 02-S-74

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0381, -88.91023

Photo Direction:

Downstream View.







Photograph ID: 25

Stream ID: 02-S-75

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03511, -88.91025

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 26

Stream ID: 02-S-75

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03511, -88.91025

Photo Direction: Upstream View.







Photograph ID: 27

Stream ID: 02-S-76

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02963 , -88.91515

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 28

Stream ID: 02-S-76

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02961 , -88.91511

Photo Direction: Upstream View.







Photograph ID: 29

Stream ID: 02-S-77

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02573 , -88.92317

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 30

Stream ID: 02-S-77

Flow Class:

PER

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02581, -88.92281

37.02581 , -88.9228

Photo Direction: Upstream View.







Photograph ID: 31

Stream ID: 02-S-78

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02803 , -88.9167

Photo Direction: Upstream View.

Survey Date: 3/1/2023



Photograph ID: 32

Stream ID: 02-S-78

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02849 , -88.91641

Photo Direction: Downstream View.







Client: Project: **Song Sparrow Solar Project** Clearway Energy, Inc. Site Name: **Song Sparrow Solar** Site Location: **Ballard County, Kentucky**

Photograph ID: 33

Stream ID: 02-S-79

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02796, -88.91661

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 34

Stream ID: 02-S-79

Flow Class:

EPH

Jurisdictional **Determination:**

Latitude/Longitude: 37.02797, -88.91663

Photo Direction: Upstream View.

Survey Date:

3/1/2023







Photograph ID: 35

Stream ID: 02-S-80

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02786 , -88.9179

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 36

Stream ID: 02-S-80

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02789 , -88.91787

Photo Direction: Upstream View.







Photograph ID: 37

Stream ID: 02-S-81

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02745 , -88.92083

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 38

Stream ID: 02-S-81

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02745 , -88.92083

Photo Direction: Upstream View.







Photograph ID: 39

Stream ID: 02-S-82

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02722 , -88.92094

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 40

Stream ID: 02-S-82

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02722 , -88.92094

Photo Direction: Upstream View.

Survey Date:

3/1/2023







Photograph ID: 41

Stream ID: 02-S-83

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02709, -88.92068

Photo Direction: Upstream View.

Survey Date: 3/1/2023



Photograph ID: 42

Stream ID: 02-S-83

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02706, -88.92068

37.02700, -00.92000

Photo Direction:

Downstream View.







Photograph ID: 43

Stream ID: 02-S-84

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01264, -88.87186

Photo Direction: Upstream View.

Survey Date: 3/14/2023



Photograph ID: 44

Stream ID: 02-S-84

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.01264, -88.87186

Photo Direction:

Downstream View.







Photograph ID: 45

Stream ID: 02-S-85

Flow Class:

EPH

Jurisdictional Determination: Non-JD

Latitude/Longitude: 37.03547, -88.91034

Photo Direction: Downstream View.

Survey Date: 3/14/2023



Photograph ID: 46

Stream ID: 02-S-85

Flow Class:

EPH

Jurisdictional Determination:

Non-JD

Latitude/Longitude: 37.03547, -88.91034

Photo Direction: Upstream View.







Photograph ID: 1

Stream ID: 03-S-35

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02107, -88.92181

Photo Direction:

Survey Date: 3/1/2023

Upstream View.



Photograph ID: 2

Stream ID: 03-S-35

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02107, -88.92179

Photo Direction: Downstream View.





Photograph ID: 3

Stream ID: 03–S-36

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02051, -88.92481

Photo Direction: Upstream View.

Survey Date: 3/1/2023



Photograph ID: 4

Stream ID:

03-S-36

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.02046, -88.92478

Photo Direction:

Downstream View.

Survey Date:

3/1/2023







Photograph ID: 5

Stream ID: 03-S-37

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02082, -88.92446

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 6

Stream ID:

03-S-37

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02076, -88.92444

37.02076, -88.92444

Photo Direction: Upstream View.







Photograph ID: 7

Stream ID: 03-S-38

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02081, -88.9245

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 8

Stream ID: 03-S-38

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02081, -88.92449

Photo Direction:

Upstream View.

Survey Date:

3/1/2023







Photograph ID: 9

Stream ID: 03-S-39

Flow Class:

EPH

Jurisdictional Determination: JD

Latitude/Longitude: 37.02117, -88.92493

Photo Direction: Upstream View.

Survey Date: 3/1/2023



Photograph ID: 10

Stream ID: 03-S-39

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02116, -88.92489

Photo Direction: Downstream View.







Photograph ID: 11

Stream ID: 03-S-40

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02126, -88.92497

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 12

Stream ID: 03-S-40

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02126, -88.92496

Photo Direction: Upstream View.







Photograph ID: 13

Stream ID: 03-S-41

Flow Class: EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02073, -88.92387

Photo Direction: Upstream View.

Survey Date: 3/1/2023



Photograph ID: 14

Stream ID: 03-S-41

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02053, -88.92397

Photo Direction: Upstream View.







Photograph ID: 15

Stream ID: 03-S-42

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02061, -88.92356

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 16

Stream ID: 03-S-42

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02061, -88.92357

Photo Direction:

Upstream View.







Photograph ID: 17

Stream ID: 03-S-43

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02101, -88.92233

Photo Direction: Upstream View.

Survey Date: 3/1/2023



Photograph ID: 18

Stream ID: 03-S-43

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.021, -88.92238

Photo Direction:

Downstream View.

Survey Date:

3/1/2023







Photograph ID: 19

Stream ID: 03-S-44

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02198, -88.92307

Photo Direction: Upstream View.

Survey Date: 3/1/2023



Photograph ID: 20

Stream ID: 03-S-44

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02198, -88.92307

Photo Direction: Downstream View.

Survey Deter







Photograph ID: 21

Stream ID: 03-S-45

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02232, -88.92376

Photo Direction: Upstream View.

Survey Date: 3/1/2023



Photograph ID: 22

Stream ID: 03-S-45

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02236, -88.92378

Photo Direction:

Downstream View.







Photograph ID: 23

Stream ID: 03-S-46

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02198, -88.92402

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 24

Stream ID: 03-S-46

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02198, -88.92402

Photo Direction:

Upstream View.







Photograph ID: 25

Stream ID: 03-S-47

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02192, -88.92414

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 26

Stream ID: 03-S-47

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0219, -88.92415

Photo Direction: Upstream View.

Survey Date:

3/1/2023







Photograph ID: 27

Stream ID: 03-S-48

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02235, -88.92267

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 28

Stream ID: 03-S-48

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0227, -88.92273

Photo Direction:

Upstream View.







Photograph ID: 29

Stream ID: 03-S-49

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02098, -88.92101

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 30

Stream ID: 03-S-49

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02099, -88.92101

Photo Direction: Upstream View.







Photograph ID: 31

Stream ID: 03-S-50

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02107, -88.92104

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 32

Stream ID: 03-S-50

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.021, -88.92102

Photo Direction: Upstream View.







Photograph ID: 33

Stream ID: 03-S-51

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02052, -88.92009

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 34

Stream ID: 03-S-51

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02054, -88.92011

Photo Direction:

Upstream View.







Photograph ID: 35

Stream ID: 03-S-52

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.0206, -88.91973

Photo Direction: Upstream View.

Survey Date: 3/1/2023



Photograph ID: 36

Stream ID: 03-S-52

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02068, -88.91974

Photo Direction:

Downstream View.







Photograph ID: 37

Stream ID: 03-S-53

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02134, -88.92076

Photo Direction: Downstream View.

Survey Date: 3/1/2023



Photograph ID: 38

Stream ID: 03-S-53

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02116, -88.92077

Photo Direction: Upstream View.







Photograph ID: 39

Stream ID: 03-S-54

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02507, -88.9235

Photo Direction: Downstream View.

Survey Date: 3/2/2023



Photograph ID: 40

Stream ID: 03-S-54

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02509, -88.92348

Photo Direction: Upstream View.

Survey Date:

3/2/2023







Photograph ID: 41

Stream ID: 03-S-55

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02504, -88.92368

Photo Direction: Downstream View.

Survey Date: 3/2/2023



Photograph ID: 42

Stream ID: 03-S-55

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.0251, -88.92347

Photo Direction:

Upstream View.







Photograph ID: 43

Stream ID: 03-S-56

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02353, -88.92334

Photo Direction: Upstream View.

Survey Date: 3/2/2023



Photograph ID: 44

Stream ID: 03-S-56

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02348, -88.92334

Photo Direction: Downstream View.







Photograph ID: 45

Stream ID: 03-S-57

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02458, -88.92318

Photo Direction: Downstream View.

Survey Date: 3/2/2023



Photograph ID: 46

Stream ID: 03-S-57

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02467, -88.92301

Photo Direction: Upstream View.

Survey Date:

3/2/2023







Photograph ID: 47

Stream ID: 03-S-58

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02379, -88.92242

Photo Direction: Downstream View.

Survey Date: 3/2/2023



Photograph ID: 48

Stream ID: 03-S-58

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude:

37.02413, -88.92289

Photo Direction:

Upstream View.

Survey Date:

3/2/2023







Photograph ID: 49

Stream ID: 03-S-59

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02561, -88.92385

Photo Direction: Downstream View.

Survey Date: 3/2/2023



Photograph ID: 50

Stream ID: 03-S-59

Flow Class:

INT

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02566, -88.92313

Photo Direction: Upstream View.







Photograph ID: 51

Stream ID: 03-S-60

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02544, -88.92404

Photo Direction: Downstream View.

Survey Date: 3/2/2023



Photograph ID: 52

Stream ID: 03-S-60

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02565, -88.92391

Photo Direction:

Upstream View.







Photograph ID: 53

Stream ID: 03-S-61

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02579, -88.92452

Photo Direction: Upstream View.

Survey Date: 3/2/2023



Photograph ID: 54

Stream ID: 03-S-61

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02575, -88.92469

Photo Direction: Downstream View.





Photograph ID: 55

Stream ID: 03-S-63

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02688, -88.92341

Photo Direction: Upstream View.

Survey Date: 3/2/2023



Photograph ID: 56

Stream ID: 03-S-63

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02688, -88.92348

Photo Direction: Downstream View.

Downstream view







Photograph ID: 57

Stream ID: 03-S-64

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02698, -88.9236

Photo Direction: Upstream View.

Survey Date: 3/2/2023



Photograph ID: 58

Stream ID: 03-S-64

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02699, -88.92361

Photo Direction: Downstream View.







Photograph ID: 59

Stream ID: 03-S-65

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02719, -88.92423

Photo Direction: Downstream View.

Survey Date: 3/2/2023



Photograph ID: 60

Stream ID: 03-S-65

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02702, -88.92346

Photo Direction: Upstream View.





Photograph ID: 61

Stream ID: 03-S-66

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02741, -88.92462

Photo Direction: Upstream View.

Survey Date: 3/2/2023



Photograph ID: 62

Stream ID: 03-S-66

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02743, -88.92468

Photo Direction: Downstream View.







Photograph ID: 63

Stream ID: 03-S-67

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02884, -88.92466

Photo Direction: Upstream View.

Survey Date: 3/2/2023



Photograph ID: 64

Stream ID: 03-S-67

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02889, -88.92465

Photo Direction:

Downstream View.







Photograph ID: 65

Stream ID: 03-S-68

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02907, -88.92551

Photo Direction: Upstream View.

Survey Date: 3/2/2023



Photograph ID: 66

Stream ID: 03-S-68

Flow Class:

EPH

Jurisdictional Determination:

JD

Latitude/Longitude: 37.02892, -88.92568

Photo Direction:

Downstream View.







Photograph ID: 1

Wetland: 01-W-01

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination: JD

WAS Point: 01-WAS-01

GPS Coordinates: 37.02933, -88.8820

Survey Date: 2/20/2023



Photograph ID: 2

Wetland: 01-W-01

Feature Type: Upland

Cowardin Class: PEM

Jurisdictional Determination: JD

WAS Point: 01-WAS-02

GPS Coordinates: 37.02935, -88.88189







Photograph ID: 3

Wetland: 01-W-02

Feature Type: Wetland

Cowardin Class: PFO

Jurisdictional Determination: JD

WAS Point: 01-WAS-03

GPS Coordinates: 37.02662, -88.88077

Survey Date: 2/20/2023



Photograph ID: 4

Wetland: 01-W-02

Feature Type: Upland

Cowardin Class: PFO

Jurisdictional Determination: JD

WAS Point: 01-WAS-04

GPS Coordinates: 37.02658, -88.88075







Photograph ID: 5

Wetland: 01-W-03

Feature Type: Wetland

Cowardin Class: PFO

Jurisdictional Determination: JD

WAS Point: 01-WAS-05

GPS Coordinates: 37.02551, -88.88179

Survey Date: 2/20/2023



Photograph ID: 6

Wetland: 01-W-03

Feature Type: Upland

Cowardin Class:

PFO

Jurisdictional Determination:

JD

WAS Point: 01-WAS-06

GPS Coordinates: 37.02547, -88.88174







Client: Clearway Energy Group, LLC Project: Song Sparrow Solar Project

Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 7

Wetland: 01-W-04

Feature Type: Wetland

Cowardin Class: PEM/PFO

Jurisdictional Determination: JD

WAS Point: 01-WAS-07

GPS Coordinates: 37.02973, -88.88691

Survey Date: 2/21/2023



Photograph ID: 8

Wetland: 01-W-04

Feature Type:

Upland

Cowardin Class: PEM/PFO

Jurisdictional Determination:

JD

WAS Point: 01-WAS-08

GPS Coordinates: 37.02974, -88.88702







Client: Clearway Energy Group, LLC Project: Song Sparrow Solar Project

Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 9

Wetland: 01-W-05

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination:

JD

WAS Point: 01-WAS-09

GPS Coordinates: 37.02721, -88.88913

Survey Date: 2/21/2023



Photograph ID: 10

Wetland: 01-W-05

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point: 01-WAS-10

GPS Coordinates:

37.02721, -88.88913







Photograph ID: 11

Wetland: 01-W-06

Feature Type: Upland

Cowardin Class: PEM

Jurisdictional Determination: JD

WAS Point: 01-WAS-11

GPS Coordinates: 37.02703, -88.89304

Survey Date: 2/21/2023



Photograph ID: 12

Wetland: 01-W-06

Feature Type: Wetland

Cowardin Class:

Jurisdictional Determination:

JD

PEM

WAS Point: 01-WAS-12

GPS Coordinates: 37.02698, -88.89283







Photograph ID: 13

Wetland: 01-W-07

Feature Type: Wetland

Cowardin Class: PFO

Jurisdictional Determination:

WAS Point: 01-WAS-13

GPS Coordinates: 37.02353, -88.8943

Survey Date: 2/21/2023



Photograph ID: 14

Wetland: 01-W-07

Feature Type:

Upland

Cowardin Class: PFO

Jurisdictional Determination: JD

WAS Point: 01-WAS-14

GPS Coordinates: 37.02347, -88.89431







Photograph ID: 15

Wetland: 01-W-08

Feature Type: Wetland

Cowardin Class: PEM/PFO

Jurisdictional Determination: Non-JD

WAS Point: 01-WAS-15

GPS Coordinates: 37.02293, -88.89399

Survey Date: 2/21/2023



Photograph ID: 16

Wetland: 01-W-08

Feature Type:

Upland

Cowardin Class: PEM/PFO

Jurisdictional Determination:

Non-JD

WAS Point: 01-WAS-16

GPS Coordinates: 37.02272, -88.8939







Photograph ID: 17

Wetland: 01-W-09

Feature Type: Wetland

Cowardin Class: PSS

Jurisdictional Determination: JD

WAS Point: 01-WAS-17

GPS Coordinates: 37.02296, -88.89273

Survey Date: 2/21/2023



Photograph ID: 18

Wetland: 01-W-09

Feature Type: Upland

Cowardin Class:

PSS Jurisdictional

Determination: JD

WAS Point: 01-WAS-18

GPS Coordinates: 37.02301, -88.89278







Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 19

Wetland: 01-W-10

Feature Type: Wetland

Cowardin Class: PFO

Jurisdictional Determination:Non-JD

WAS Point: 01-WAS-19

GPS Coordinates: 37.02209, -88.89101

Survey Date: 2/22/2023



Photograph ID: 20

Wetland: 01-W-10

Feature Type:

Upland

Cowardin Class:

PFO

Jurisdictional Determination:

Non-JD

WAS Point: 01-WAS-20

GPS Coordinates: 37.02206, -88.89103







Photograph ID: 21

Wetland: 01-W-11

Feature Type: Wetland

Cowardin Class: PFO

Jurisdictional Determination:

WAS Point: 01-WAS-21

GPS Coordinates: 37.02352, -88.8929

Survey Date: 2/22/2023



Photograph ID: 22

Wetland: 01-W-11

Feature Type:

Upland

Cowardin Class: PFO

Jurisdictional Determination: JD

WAS Point: 01-WAS-22

GPS Coordinates: 37.02352, -88.89295







Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 23

Wetland: 01-W-12

Feature Type: Wetland

Cowardin Class: PFO

Jurisdictional Determination: JD

WAS Point: 01-WAS-23

GPS Coordinates: 37.02154, -88.90182

Survey Date: 2/22/2023



Photograph ID: 24

Wetland: 01-W-12

Feature Type:

Upland

Cowardin Class: PEM/PFO

Jurisdictional Determination:

JD

WAS Point: 01-WAS-24

GPS Coordinates: 37.02148, -88.90158







Photograph ID: 25

Wetland: 01-W-13

Feature Type: Wetland

Cowardin Class: PEM/PFO

Jurisdictional Determination: JD

WAS Point: 01-WAS-25

GPS Coordinates: 37.02184, -88.8954

Survey Date: 2/22/2023



Photograph ID: 26

Wetland: 01-W-13

Feature Type:

Upland

Cowardin Class: PEM/PFO

Jurisdictional Determination: JD

WAS Point: 01-WAS-26

GPS Coordinates: 37.02188, -88.89544







Photograph ID: 27

Wetland: 01-W-14

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination:

WAS Point: 01-WAS-27

GPS Coordinates: 37.03046, -88.91478

Survey Date: 2/23/2023



Photograph ID: 28

Wetland: 01-W-14

Feature Type:

Upland

Cowardin Class: PEM

Jurisdictional Determination: JD

WAS Point: 01-WAS-28

GPS Coordinates: 37.03048, -88.91476







Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 29

Wetland: 01-W-15

Feature Type: Wetland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point: 01-WAS-29

GPS Coordinates: 37.02034, -88.91034

Survey Date: 2/23/2023



Photograph ID: 30

Wetland: 01-W-15

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point:

01-WAS-30

GPS Coordinates:

37.02034, -88.91038







Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 31

Wetland: 01-W-16

Feature Type:

Wetland

Cowardin Class: PEM/PSS

Jurisdictional Determination:

JD

WAS Point: 01-WAS-31

GPS Coordinates: 37.02132, -88.90828

Survey Date: 2/23/2023



Photograph ID: 32

Wetland: 01-W-16

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point: 01-WAS-32

GPS Coordinates:

37.02137, -88.90836







Photograph ID: 33

Wetland: 01-W-17

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination: JD

WAS Point: 01-WAS-33

GPS Coordinates: 37.02181, -88.90832

Survey Date: 2/23/2023



Photograph ID: 34

Wetland: 01-W-17

Feature Type: Upland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point: 01-WAS-34

GPS Coordinates: 37.02175, -88.90831







Photograph ID: 35

Wetland: 01-W-18

Feature Type: Wetland

Cowardin Class: PEM/PFO

Jurisdictional Determination: JD

WAS Point: 01-WAS-35

GPS Coordinates: 37.0201, -88.90623

Survey Date: 2/23/2023



Photograph ID: 36

Wetland: 01-W-18

Feature Type: Upland

Opianu ...

Cowardin Class: PEM/PFO

Jurisdictional Determination: JD

WAS Point: 01-WAS-36

GPS Coordinates: 37.02024, -88.90625







Photograph ID: 37

Wetland: 01-W-19

Feature Type: Wetland

Cowardin Class: PFO

Jurisdictional Determination: Non-JD

WAS Point: 01-WAS-37

GPS Coordinates: 37.0194, -88.90646

Survey Date: 2/23/2023



Photograph ID: 38

Wetland: 01-W-20

Feature Type: Wetland

Cowardin Class:

PEM

Jurisdictional Determination: JD

WAS Point: 01-WAS-38

GPS Coordinates: 37.02626, -88.91474







Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 39

Wetland: 01-W-20

Feature Type: Upland

Cowardin Class: PEM

Jurisdictional Determination:

WAS Point: 01-WAS-39

GPS Coordinates: 37.02621, -88.91471

Survey Date: 2/24/2023



Photograph ID: 40

Wetland: N/A

Feature Type:

Upland Test Pit, No Feature Associated

Cowardin Class:

N/A

Jurisdictional Determination:

JD

WAS Point:

01-TP-01

GPS Coordinates:

37.03012, -88.88166

Survey Date:

2/20/2023







Photograph ID: 41

Wetland: 02-W-01

Feature Type: Wetland

Cowardin Class: PEM/PSS

Jurisdictional Determination: JD

WAS Point: 02-WAS-01

GPS Coordinates: 37.01896,

Survey Date: 2/20/2023



Photograph ID: 42

Wetland: 02-W-01

Feature Type:

Upland

Cowardin Class: PEM/PSS

Jurisdictional Determination:

JD

WAS Point: 02-WAS-02

GPS Coordinates:

#REF!







Photograph ID: 43

Wetland: 02-W-02

Feature Type: Wetland

Cowardin Class: PSS

Jurisdictional Determination:

WAS Point: 02-WAS-03

GPS Coordinates: 37.01962, -88.86817

Survey Date: 2/20/2023



Photograph ID: 44

Wetland: 02-W-02

Feature Type:

Upland

Cowardin Class: PSS

Jurisdictional Determination: JD

WAS Point: 02-WAS-04

GPS Coordinates: 37.01961, -88.86818







Photograph ID: 45

Wetland: 02-W-03

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination: Non-JD

WAS Point: 02-WAS-05

GPS Coordinates: 37.01968, -88.8703

Survey Date: 2/20/2023



Photograph ID: 46

Wetland: 02-W-03

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

Non-JD

WAS Point: 02-WAS-06

GPS Coordinates: 37.01966, -88.87033







Photograph ID: 47

Wetland: 02-W-04

Feature Type: Wetland

Cowardin Class:

PEM

Jurisdictional Determination:

Non-JD

WAS Point: 02-WAS-07

GPS Coordinates: 37.01945, -88.87133

Survey Date: 2/20/2023



Photograph ID: 48

Wetland: 02-W-04

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

Non-JD

WAS Point: 02-WAS-08

GPS Coordinates: 37.01942, -88.87133

Survey Date:

2/20/2023







Photograph ID: 49

Wetland: 02-W-05

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination: Non-JD

WAS Point: 02-W-09

GPS Coordinates: 37.01849, -88.87135

Survey Date: 2/21/2023



Photograph ID: 50

Wetland: 02-W-05

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

Non-JD

WAS Point: 02-W-10

GPS Coordinates:

37.01847, -88.87135







Photograph ID: 51

Wetland: 02-W-06

Feature Type: Wetland

Cowardin Class: PFO

Jurisdictional Determination: Non-JD

WAS Point: 02-WAS-13

GPS Coordinates: 37.01684, -88.87536

Survey Date: 2/21/2023



Photograph ID: 52

Wetland: 02-W-06

Feature Type:

Upland

Cowardin Class: PFO

Jurisdictional Determination:

Non-JD

WAS Point: 02-WAS-14

GPS Coordinates: 37.01688, -88.87537







Photograph ID: 53

Wetland: 02-W-07

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination: JD

WAS Point: 02-WAS-011

GPS Coordinates: 37.01307, -88.87321

Survey Date: 2/21/2023



Photograph ID: 54

Wetland: 02-W-07

Feature Type: Upland

Cowardin Class:

PEM

Jurisdictional Determination: JD

WAS Point: 02-WAS-012

GPS Coordinates: 37.01316, -88.87326







Photograph ID: 55

Wetland: 02-W-08

Feature Type: Wetland

Cowardin Class:

PEM

Jurisdictional Determination: Non-JD

WAS Point: 02-WAS-15

GPS Coordinates: 37.03709, -88.90742

Survey Date: 2/23/2023



Photograph ID: 56

Wetland: 02-W-08

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

Non-JD

WAS Point: 02-WAS-16

GPS Coordinates:

37.03704, -88.90743







Photograph ID: 57

Wetland: 02-W-09

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination: JD

WAS Point: 02-WAS-17

GPS Coordinates: 37.03199, -88.91277

Survey Date: 2/23/2023



Photograph ID: 58

Wetland: 02-W-09

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point: 02-WAS-18

GPS Coordinates: 37.03194, -88.91279







Photograph ID: 59

Wetland: 02-W-10

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination:

WAS Point: 02-WAS-19

GPS Coordinates: 37.03187, -88.91245

Survey Date: 2/23/2023



Photograph ID: 60

Wetland: 02-W-10

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point: 02-WAS-20

GPS Coordinates: 37.03177, -88.91245

Survey Date:

2/23/2023







Photograph ID: 61

Wetland: 02-W-11

Feature Type: Wetland

Cowardin Class: PFO

Jurisdictional Determination: JD

WAS Point: 02-WAS-21

GPS Coordinates: 37.03772, -88.90217

Survey Date: 2/24/2023



Photograph ID: 62

Wetland: 02-W-11

Feature Type:

Upland

Cowardin Class: PFO

Jurisdictional Determination: JD

WAS Point: 02-WAS-22

GPS Coordinates: 37.03766, -88.90206







Photograph ID: 63

Wetland: 02-W-12

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination: JD

WAS Point: 02-WAS-23

GPS Coordinates: 37.03378, -88.9141

Survey Date: 2/24/2023



Photograph ID: 64

Wetland: 02-W-12

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point: 02-WAS-24

GPS Coordinates: 37.03375, -88.91411







Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 65

Wetland: 02-W-13

Feature Type: Wetland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point: 02-WAS-27

GPS Coordinates: 37.03346, -88.91332

Survey Date: 2/28/2023



Photograph ID: 66

Wetland: 02-W-13

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point:

02-WAS-28

GPS Coordinates: 37.03332, -88.91326







Photograph ID: 67

Wetland: 02-W-14

Feature Type: Wetland

Cowardin Class: PEM/PFO

Jurisdictional Determination: JD

WAS Point: 02-WAS-25

GPS Coordinates: 37.03175, -88.91084

Survey Date: 2/24/2023



Photograph ID: 68

Wetland: 02-W-14

Feature Type:

Upland

Cowardin Class: PEM/PFO

Jurisdictional Determination: JD

WAS Point: 02-WAS-26

CPS Coordinate

GPS Coordinates: 37.03179, -88.91089







Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 69

Wetland: 02-W-15

Feature Type:

Wetland

Cowardin Class:

PSS/PFO

Jurisdictional Determination:

Non-JD

WAS Point: 02-WAS-30

GPS Coordinates: 37.03536, -88.91438

Survey Date: 2/28/2023

Photograph ID: 70

Wetland: 02-W-15

Feature Type:

Upland

Cowardin Class:

PSS/PFO

Jurisdictional Determination:

Non-JD

WAS Point:

02-WAS-31

GPS Coordinates: 37.0354, -88.91448







Photograph ID: 71

Wetland: 02-W-16

Feature Type: Wetland

Cowardin Class: PSS/PFO

Jurisdictional **Determination:** JD

WAS Point: 02-WAS-32

GPS Coordinates: 37.03764, -88.91432

Survey Date: 3/1/2023



Photograph ID: 72

Wetland: 02-W-16

Feature Type:

Upland

Cowardin Class: PSS/PFO

Jurisdictional Determination: JD

WAS Point: 02-WAS-33

GPS Coordinates: 37.03763, -88.91421

Survey Date: 3/1/2023







Photograph ID: 73

Wetland: 02-W-17

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination:

WAS Point: 02-WAS-34

GPS Coordinates: 37.02785, -88.92221

Survey Date: 3/1/2023



Photograph ID: 74

Wetland: 02-W-17

Feature Type: Upland

Cowardin Class: PEM

Jurisdictional Determination:

JD

WAS Point: 02-WAS-35

GPS Coordinates: 37.02793, -88.92218







Photograph ID: 75

Wetland: 03-W-01

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination:

WAS Point: 03-WAS-01

GPS Coordinates: 36.99478, -88.93609

Survey Date: 2/28/2023



Photograph ID: 76

Wetland: 03-W-01

Feature Type:

Upland

Cowardin Class: PEM

Jurisdictional Determination: JD

WAS Point: 03-WAS-02

GPS Coordinates: 36.99476, -88.93609







Photograph ID: 77

Wetland: 03-W-02

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination:

WAS Point: 03-WAS-03

GPS Coordinates: 37.02036, -88.93184

Survey Date: 2/28/2023



Photograph ID: 78

Wetland: 03-W-02

Feature Type: Upland

Cowardin Class:

PEM

Jurisdictional **Determination:** JD

WAS Point: 03-WAS-04

GPS Coordinates: 36.99719, -88.93781







Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 79

Wetland: 03-W-03

Feature Type:

Wetland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point: 03-WAS-05

GPS Coordinates: 36.99716, -88.93779

Survey Date: 2/28/2023



Photograph ID: 80

Wetland: 03-W-03

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point:

03-WAS-06

GPS Coordinates:

37.00659, -88.93749







Photograph ID: 81

Wetland: 03-W-04

Feature Type: Wetland

Cowardin Class: PFO

Jurisdictional Determination:

WAS Point: 03-WAS-07

GPS Coordinates: 37.00664, -88.93746

Survey Date: 2/28/2023



Photograph ID: 82

Wetland: 03-W-04

Feature Type:

Upland

Cowardin Class:

PFO

Jurisdictional Determination:

JD

WAS Point: 03-WAS-08

GPS Coordinates:

37.00901, -88.93833







Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 83

Wetland: 03-W-05

Feature Type:

Wetland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point: 03-WAS-09

GPS Coordinates: 37.00893, -88.93837

Survey Date: 2/28/2023



Photograph ID: 84

Wetland: 03-W-05

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point: 03-WAS-10

GPS Coordinates:

37.01149, -88.93804







Photograph ID: 85

Wetland: 03-W-06

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination: Non-JD

WAS Point: 03-WAS-11

GPS Coordinates: 37.01157, -88.93801

Survey Date: 2/28/2023



Photograph ID: 86

Wetland: 03-W-06

Feature Type: Upland

Cowardin Class: PEM

Jurisdictional Determination:

Non-JD

WAS Point: 03-WAS-12

GPS Coordinates: 37.01151, -88.93856







Photograph ID: 87

Wetland: 03-W-07

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional

Determination:Non-JD

WAS Point: 03-WAS-13

GPS Coordinates: 37.01151, -88.93858

Survey Date: 2/28/2023



Photograph ID: 88

Wetland: 03-W-07

Feature Type:

Upland

Cowardin Class: PEM

Jurisdictional Determination:

Non-JD

WAS Point: 03-WAS-14

GPS Coordinates: 37.01265, -88.93597

Survey Date:

2/28/2023







Photograph ID: 89

Wetland: 03-W-08

Feature Type: Wetland

Cowardin Class: PEM

Jurisdictional Determination:

WAS Point: 03-WAS-15

GPS Coordinates: 37.01279, -88.93593

Survey Date: 3/1/2023



Photograph ID: 90

Wetland: 03-W-08

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

JD

WAS Point: 03-WAS-16

GPS Coordinates: 37.01841, -88.93234







Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 91

Wetland: 03-W-09

Feature Type:

Wetland

Cowardin Class:

PEM

Jurisdictional Determination:

Non-JD

WAS Point: 03-WAS-17

GPS Coordinates: 37.01843, -88.93234

Survey Date: 3/1/2023



Photograph ID: 92

Wetland: 03-W-09

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional Determination:

Non-JD

WAS Point:

03-WAS-18

GPS Coordinates: 37.01628, -88.93204







Client: Clearway Energy Group, LLC **Song Sparrow Solar Project** Project:

Site Name: **Song Sparrow Solar** Site Location: Ballard, KY

Photograph ID: 93

Wetland: 03-W-10

Feature Type: Wetland

Cowardin Class:

PEM

Jurisdictional **Determination:**

WAS Point: 03-WAS-19

GPS Coordinates: 37.01625, -88.93204

Survey Date: 3/1/2023



Photograph ID: 94

Wetland: 03-W-10

Feature Type:

Upland

Cowardin Class:

PEM

Jurisdictional **Determination:**

JD

WAS Point:

03-WAS-20

GPS Coordinates:

37.02029, -88.93184

Survey Date:

3/1/2023







Photograph ID: 95

Wetland: 03-W-11

Feature Type: Wetland

Cowardin Class: PFO

Jurisdictional Determination:

WAS Point: 03-WAS-21

GPS Coordinates: 37.02692, -88.92349

Survey Date: 3/2/2023



Photograph ID: 96

Wetland: 03-W-11

Feature Type:

Upland

Cowardin Class:

PFO

Jurisdictional Determination:

JD

WAS Point: 03-WAS-22

GPS Coordinates: 37.02701, -88.92347







Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 97

Wetland: 03-W-12

Feature Type: Wetland

Cowardin Class: PFO

Jurisdictional Determination:

JD

WAS Point: 03-WAS-23

GPS Coordinates: 37.02941, -88.92533

Survey Date: 3/2/2023



Photograph ID: 98

Wetland: 03-W-12

Feature Type:

Upland

Cowardin Class:

PFO

Jurisdictional Determination:

JD

WAS Point: 03-WAS-24

GPS Coordinates: 37.0294, -88.92522

Survey Date:







Site Name: Song Sparrow Solar Site Location: Ballard, KY

Photograph ID: 99

Wetland:

N/A

Feature Type:

Upland Test Pit, No Feature

Associated

Cowardin Class:

N/A

Jurisdictional Determination:

N/A

WAS Point:

03-TP-01

GPS Coordinates:

37.02201, -88.92266

Survey Date:

3/1/2023

