

DELINEATION OF POTENTIAL SECTION 404 ISSUES PORT OF LITTLE ROCK - ~1,100-ACRE TRACT LITTLE ROCK, PULASKI COUNTY, ARKANSAS

MARCH 30, 2023

DELINEATION OF POTENTIAL SECTION 404 ISSUES PORT OF LITTLE ROCK - ~1,100-ACRE TRACT LITTLE ROCK, PULASKI COUNTY, ARKANSAS

Prepared for

Little Rock Port Authority 10600 Industrial Harbor Drive Little Rock, AR 72206

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ECCI 13000 Cantrell Road Little Rock, AR 72223

Prepared by

FTN Associates, Ltd. 3 Innwood Circle, Suite 220 Little Rock, AR 72211

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1.0 INTRODUCTION

The Little Rock Port Authority and ECCI requested that FTN Associates, Ltd. (FTN) of Little Rock, Arkansas, delineate Section 404 wetlands and Waters of the US within a ~1,100-acre tract (project area) in the Port of Little Rock area. The project area is located generally south of Thibault Road and both east and west of a portion of Frazier Pike Road in the Port of Little Rock area in southeast Little Rock, west of the Arkansas River in Little Rock, Pulaski County, Arkansas (Figure 1). The area of the delineation is mapped on United States Geologic Survey (USGS) topographic quadrangle Sweet Home, AR (7.5-minute series) (Figures 2 and 3.1-3.4). Legal description of the project area is generally the Eastern Half of the Southeast Quarter of Section 28, Township 1 North, Range 11 West; the Southern Half of Section 27, Township 1 North, Range 11 West; the Eastern Quarter of Section 33 Township 1 North, Range 11 West; and the majority of Section 34, Township 1 North, Range 11 West. Approximate center coordinates for the project area are 34.675°N, -92.180°W (WGS 84). The project area is located in the Lower Arkansas-Maumelle watershed (Hydrologic Unit Code [HUC] 11110207), a watershed of approximately 1,113 square miles.

2.0 MATERIALS AND METHODS

FTN conducted a Level 3, routine wetland delineation as described in the US Army Corps of Engineers (USACE) *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987). Field investigations for the delineation were completed during February and March 2023. FTN evaluated the area of the delineation for potential Section 404 jurisdictional areas, i.e., wetlands and other Waters of the US (WOTUS), and complied with the USACE 1987 Manual and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Region (Version 2.0)* (Engineer Research and Development Center 2012).

Sampling point locations were selected to evaluate low-lying areas and other areas appearing to have at least some potential for USACE regulation under Section 404 of the Clean Water Act (CWA), and to evaluate uplands for the purpose of collecting data regarding community type. Due to the size and nature of the project area, five east/west transects were established for gathering data. The primary watercourse used to determine orientation of transects is the Arkansas River located east of the project area (the river levee marks most of the eastern project area boundary). Additional data outside of transects were collected as needed to support the findings of this report. The goal of a delineation is to identify areas that may be considered jurisdictional under Section 404 of the CWA. Sampling point locations (both transect points and supplemental points) were selected to effectively accomplish this goal as well as document upland site conditions. A total of 110 sampling point locations were established, and data were collected on vegetation, hydrology, and soils at each of the locations (Attachment A) (Figures 3.1-3.9, 4.1-4.9, 6, and 7).

Edwin B. Smith's *Keys to the Flora of Arkansas* (1994) was used to confirm certain plant identifications and the Corps Cold Regions Research and Engineering Laboratory's *Atlantic and Gulf Coastal Region National Wetland Plant List* (2020) was used to determine wetland indicator status for the dominant species. Soil pits were dug with a sharpshooter shovel to a depth of approximately 16 to 18 inches, where possible, and soil colors were determined with the aid of Munsell color charts. Soil survey data from the Soil Survey of Pulaski County, Arkansas (Soil Conservation Service (SCS) 1975) and the Natural Resources Conservation Service's (NRCS) Web Soil Survey (2020) were used to determine the soil map units for the area. Also, the NRCS *Pulaski County, Arkansas Hydric Soils Map List and Map Units with Hydric Inclusions* was used to assist in the selection of sampling points appearing to have a potential for the occurrence of hydric soils. The United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) mapper was used to determine NWI classification.

A sub-meter Juniper Systems Geode handheld GPS receiver unit was used for navigation and marking sampling point locations.

3.0 FINDINGS AND RESULTS

3.1 General Site Description

The project area consists primarily of agricultural fields (which appear to be most recently cut for hay and/or in soybean production). The project area also includes agricultural drainage features, residential property, an active borrow pit (Attachment B, Photo 12), undeveloped forested areas, various types of wetlands, and ponds. Topography in the project area is generally flat, with relatively minor relief in select areas. The project area is surrounded by agricultural fields, residential property, industrial property, the Arkansas River levee, and undeveloped areas.

Figures 1 through 7 provide maps of the proposed project area. Attachment A provides data forms for the 110 sampling site locations. Attachment B provides representative photos of the project area and aquatic features.

3.2 Wetlands

FTN observed 47 areas (WET-A through WET-AU) within the project area that displayed wetland characteristics, i.e., positive indicators of hydrology, hydrophytic vegetation, and hydric soils, totaling approximately 92.08 acres (Figures 3.1-3.9 and 4.1-4.9) (Attachment B, Photos 29-99).

WET-A, located near the northwest corner of the project area, is an inundated wetland feature that was a soil borrow area. This wetland feature includes multiple excavated areas, most of which are contiguous, with a berm between the northern and southern portion of the overall feature. Based on field observations, this wetland is also contiguous with parts of WET-B.

WET-B, located in the northwesternmost agricultural field of the project area, is a primarily herbaceous wetland feature. WET-B is part of a complex of several noncontiguous, but ultimately hydrologically connected, wetland areas with areas of uplands between. Due to significant rainfall during the time of year (late winter) preceding and during the period the field delineation was conducted, observable surface hydrology was a key factor in delineating the WET-B boundaries. WET-B is contiguous with WET-A, WET-C, and Farm Ditch-3.

WET-C, located along the eastern edge of the northwesternmost field of the project area, is a field edge drainage feature that displays wetland characteristics. WET-C is primarily

dominated by both herbaceous and scrub/shrub species. WET-C is contiguous with WET-B and Farm Ditch-3. WET-C is also hydrologically connected, via a culvert under a field edge farm road, to WET-D.

WET-D, WET-W, WET-Y, WET-AC, WET-AF, WET-AG, WET-AH, WET-AJ, WET-AK, WET-AM, WET-AN, WET-AO, WET-AQ, WET-AR, and WET-AS are agricultural wetland swale/slough features. These wetlands are linear depressional features that appear to, at least in some years, mostly or entirely dry out sufficiently during the growing season to be put in agricultural crop production and/or cut for hay. The majority of these wetland features appear to be historic meander scars. WET-D is directly connected, via a culvert, to WET-C and is contiguous with and drains toward WET-E. WET-W is directly connected to WET-X and is contiguous with and drains to Farm Ditch-1. WET-Y, WET-AC, and WET-AF are the eastern extents of larger wetland meander scar features, the majority of which are forested; these features are contiguous with and drain to WET-X, WET-AB, and WET-AE, respectively. WET-AH, WET-AJ, WET-AK, and WET-AR are parts of larger meander scar wetland features that drain offsite to the west. WET-AM and WET-AN are contiguous to one another and drain west to Farm Ditch-5. WET-AO and WET-AQ drain east to Farm Ditch-6 and Farm Ditch-4, respectively.

WET-E is a forested wetland feature within a larger upland forested area. WET-E receives drainage from WET-D and drains to a series of ephemeral drainages (EPH-1, EPH-2, and EPH-3).

WET-F, WET-I, WET-P, and WET-AI, scattered in several locations throughout the project area, are in agricultural fields, and are herbaceous wetland features. These wetlands are slightly depressional features that appear to, at least some years, mostly or entirely dry out sufficiently during the growing season to be put in agricultural crop production and/or cut for hay. WET-F receives drainage from EPH-1 and is contiguous with and drains to WET-G.

WET-G is a forested bottomland wetland located in the northwestern portion of the project area, northwest of Farm Ditch-1. This wetland feature is a low-lying area, part of which is likely inundated during much of the year. WET-G receives drainage from local runoff (primarily from the north and northeast), is contiguous with WET-F, and drains via a culvert to Farm Ditch-1.

WET-H, WET-N, and WET-Q, are linear forested wetland slough features located near the eastern project boundary. These features are associated with an NWI mapped wetland (PFO1A) (although the southern extent of WET-N and the entirety of WET-Q are not included on the NWI mapping, they appear to be the same feature). Historically, these features (along with a portion of WET-K, WET-L, WET-O, WET-R, WET-T, and WET-U) were likely a single contiguous feature. However, past activities (e.g., farming, housing, road construction, etc.) have severed the connectivity in multiple locations. WET-H is contiguous with and drains to WET-K, which drains to WET-L, which drains, via a series of culverts, under a road then through the levee (via a culvert with a flap gate) and offsite to the east and on to the Arkansas River. WET-N and WET-Q (along with other wetland features in the southeastern portion of the project area) appear to lack a direct hydrologic connection to a downstream waterway. This lack of connectivity is largely associated with construction of the levee (which occurred, based on a review of available historic aerial imagery, in the late 1940s or early 1950s) and may also be the result of other historic activities.

WET-J, WET-K, WET-R, WET-T, and WET-V, scattered in several locations throughout the project area, are forested wetland depressions. WET-J is contiguous with WET-I. WET-K is contiguous with WET-H, WET-I, WET-L, and WET-M. Both WET-J and WET-K are hydrologically connected to the WET-H/WET-L wetland slough feature that drains, via a series of culverts, under a road then through the levee (via a culvert with a flap gate) and offsite to the east and on to the Arkansas River. WET-R and WET-T are depressional areas located near the southeastern corner of the project area and appear to lack a direct hydrologic connection to a downstream waterway. This lack of connectivity is largely associated with construction of the levee and may also be the result of other historic activities in the area. WET-V is a depressional area near the west-central project boundary that drains to Farm Ditch-1.

WET-Z and WET-AA are forested wetlands within a larger row-planted forested tract. WET-AA appears to have a hydrologic connection, during periods of heavy rain, to WET-Z via a poorly defined forest/field edge drainageway. WET-Z drains, via a culvert, to Farm Ditch-1.

WET-L and WET-M, located near the east-central project boundary, are herbaceous wetland swale/slough/drainageway features. WET-M is contiguous at the north with WET-K and at the south with WET-L. WET-M is located along the toe of the levee and is likely present due

to levee installation. WET-L is part of a NWI mapped wetland (PFO1A). WET-L receives drainage from WET-K (and the associated wetland complex to the north) and WET-M and drains, via a series of culverts, under a road then through the levee (via a culvert with a flap gate) and offsite to the east and on to the Arkansas River.

WET-O, WET-S, and WET-U, located in the southeast portion of the project area, are inundated, herbaceous, wetland features. These wetlands are connected to other wetland features in the vicinity and are similar to those features in that they appear to lack a direct hydrologic connection to a downstream waterway. This lack of connectivity is largely associated with construction of the levee and may also be the result of other historic activities in the area.

WET-X, WET-AB, WET-AE, WET-AL, WET-AP, and WET-AT, located in the west-central/southwestern portion of the project area are forested wetland swale/slough features associated with historic meander scars. WET-X, WET-AB, WET-AE, and WET-AT are portions of larger meander scars and drain offsite to the west. WET-AL and WET-AP drain east to Farm Ditch-6.

WET-AD is a former pond wetland located in the east-central portion of the row-planted forested tract in the central portion of the project area. This wetland feature is bounded to the west by an earthen berm and appears to have been an excavated pond (installed, based on available historic aerial imagery, in the late 1990s). This feature did not appear to have a downstream hydrologic connection to a waterway.

WET-AU is a forested wetland located along a portion of the eastern project boundary on the river side of the levee. This wetland area is part of a larger wetland complex associated with and draining toward an offsite backwater lake and the Arkansas River.

The majority of the observed wetland features appear to have an ultimate hydrologic surface connection to a TNW, i.e., the Arkansas River (see Section 3.4 for downstream flow information), thus making those features potentially jurisdictional and subject to regulation by the USACE under Section 404 of the CWA. WET-AD is a historic pond feature that was likely dug in uplands and lacks a surface connection to a TNW. WET-N, WET-O, WET-P, WET-Q, WET-R, WET-S, WET-T, and WET-U, located in the southeastern portion of the project area, appear to have had a hydrologic surface connection severed by construction of a levee (in the late 1940s or early 1950s) and currently lack a surface connection to a TNW. WET-AD, WET-N,

WET-O, WET-P, WET-Q, WET-R, WET-S, WET-T, and WET-U appear isolated from a TNW and therefore are potentially not subject to regulation by the USACE under Section 404 of the CWA.

Table 1 provides a summary of findings at each of the 110 sampling locations. Table 2 provides a summary, including acreage, for each of the 47 wetland features.

Sample Site ID	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Technical Wetland
 T1-01	Yes	No	No	No
T1-02	Yes	Yes	Yes	Yes
T1-03	Yes	Yes	No	Yes
T1-04	Yes	Yes	Yes	Yes
T1-05	Yes	No	No	No
T1-06	Yes	Yes	Yes	Yes
T1-07	Yes	Yes	Yes	Yes
T1-08	Yes	Yes	Yes	Yes
T1-09	No	No	No	No
T1-10	No	No	No	No
T1-11	No	No	Yes	No
T1-12	No	No	No	No
T1-13	Yes	No	No	No
T1-14	Yes	Yes	Yes	Yes
T2-01	No	Yes	No	No
T2-02	No	No	No	No
T2-03	Yes	No	No	No
T2-04	Yes	No	No	No
T2-05	Yes	Yes	Yes	Yes
T2-06	Yes	Yes	No	No
T2-07	No	No	No	No
T2-08	No	No	No	No
T2-09	Yes	Yes	Yes	Yes
T2-10	Yes	Yes	Yes	Yes
T2-11	No	No	No	No
T2-12	Yes	Yes	Yes	Yes
T2-a	No	No	No	No
T3-01	No	Yes	No	No
T3-02	Yes	Yes	Yes	Yes
T3-03	Yes	Yes	Yes	Yes
T3-04	Yes	No	No	No
T3-05	Yes	No	No	No
T3-06	Yes	Yes	No	No
T3-07	Yes	No	No	No

Table 1. Summary of findings at 110 sampling point locations.

Sample Site ID	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Technical Wetland
T3-08	No	No	No	No
T3-09	No	No	No	No
T3-10	Yes	Yes	Yes	Yes
T3-11	No	No	No	No
T3-12	Yes	Yes	Yes	Yes
T3-13	No	No	No	No
T3-14	Yes	Yes	Yes	Yes
T4-01	No	No	No	No
T4-02	Yes	Yes	Yes	Yes
T4-03	No	No	No	No
T4-04	No	No	No	No
T4-05	No	No	No	No
T4-06	Yes	No	No	No
T4-07	Yes	Yes	Yes	Yes
T4-08	Yes	No	No	No
T4-08	No	No	No	No
T4-10	Yes	No	No	No
T5-01	No	No	No	No
T5-02	No	No	No	No
T5-03	Yes	No	No	No
T5-04	Yes	Yes	Yes	Yes
T5-05	No	No	No	No
T5-06	No	No	No	No
SP-01	Yes	Yes	Yes	Yes
SP-02	Yes	No	No	No
SP-03	Yes	Yes	Yes	Yes
SP-04	Yes	Yes	No	No
SP-05	Yes	Yes	Yes	Yes
SP-06	Yes	No	No	No
SP-07	Yes	No	No	No
SP-08	Yes	Yes	Yes	Yes
SP-09	Yes	No	No	No
SP-10	Yes	Yes	Yes	Yes
SP-11	Yes	No	No	No
SP-12	No	No	No	No
SP-13	No	No	Yes	No
SP-14	No	No	Yes	No
SP-15	Yes	Yes	Yes	Yes
SP-16	Yes	Yes	Yes	Yes
SP-17	No	No	No	No
SP-18	Yes	Yes	Yes	Yes
SP-19	Yes	Yes	Yes	Yes
SP-20	Yes	Yes	Yes	Yes
SP-21	Yes	No	No	No
51-21	1 55	INU	INU	INU

Table 1. Summary of findings at 110 sampling point locations (continued).

	Hydrophytic			
Sample Site ID	Vegetation	Hydric Soils	Wetland Hydrology	Technical Wetland
SP-22	Yes	Yes	Yes	Yes
SP-23	Yes	Yes	No	No
SP-24	Yes	Yes	Yes	Yes
SP-25	Yes	No	No	No
SP-26	Yes	Yes	Yes	Yes
SP-27	Yes	Yes	Yes	Yes
SP-28	Yes	Yes	Yes	Yes
SP-29	Yes	Yes	Yes	Yes
SP-30	Yes	No	Yes	No
SP-31	Yes	Yes	Yes	Yes
SP-32	Yes	No	No	No
SP-33	Yes	Yes	Yes	Yes
SP-34	Yes	Yes	Yes	Yes
SP-35	Yes	Yes	Yes	Yes
SP-36	Yes	Yes	Yes	Yes
SP-37	Yes	No	No	No
SP-38	Yes	Yes	Yes	Yes
SP-39	Yes	Yes	Yes	Yes
SP-40	Yes	Yes	Yes	Yes
SP-41	Yes	Yes	Yes	Yes
SP-42	Yes	Yes	Yes	Yes
SP-43	No	No	No	No
SP-44	Yes	Yes	Yes	Yes
SP-45	Yes	No	No	No
SP-46	Yes	Yes	Yes	Yes
SP-47	Yes	No	No	No
SP-48	Yes	Yes	Yes	Yes
SP-49	Yes	Yes	Yes	Yes
SP-50	No	No	No	No
SP-51	Yes	Yes	Yes	Yes
SP-52	Yes	No	Yes	No
SP-53	Yes	Yes	Yes	Yes

Table 1. Summary of findings at 110 sampling point locations (continued).

Wetland			Jurisdictional	Photo(s)
ID	Vegetative Community Type(s)	Area (acres)	Wetland	ID
WET-A	Former Borrow Pit	6.0	Yes	29, 35
WET-B	Agricultural field wetland	15	Yes	30-35
WET-C	Herbaceous/Scrub/Shrub field edge wetland	1.4	Yes	36
WET-D	Agricultural wetland swale/slough	2.1	Yes	37, 39
WET-E	Forested wetland	0.49	Yes	38, 39
WET-F	Agricultural field wetland	0.36	Yes	41
WET-G	Forested bottomlands wetland	2	Yes	40, 41
WET-H	Forested wetland slough	3.3	Yes	42, 45
WET-I	Agricultural field wetland	7.6	Yes	43, 45
WET-J	Forested wetland depression	0.92	Yes	45
WET-K	Forested wetland depression	0.5	Yes	44, 45
WET-L	Herbaceous wetland swale/drainageway	2.1	Yes	46, 47, 49
WET-M	Herbaceous wetland swale/drainageway	1.3	Yes	48, 49
WET-N	Forested wetland slough	1.6	No	50, 51
WET-O	Inundated herbaceous wetland	0.2	No	52
WET-P	Agricultural field wetland	2	No	53, 54
WET-Q	Forested wetland slough	0.65	No	55, 56
WET-R	Forested wetland depression	0.16	No	57, 58
WET-S	Inundated herbaceous wetland	0.72	No	59, 61
WET-T	Forested wetland depression	0.23	No	60, 61
WET-U	Inundated herbaceous wetland	0.5	No	62, 63
WET-V	Forested wetland depression	0.28	Yes	64
WET-W	Agricultural wetland swale/slough	1.7	Yes	65, 66
WET-X	Forested wetland swale/slough	4.1	Yes	67, 68
WET-Y	Agricultural wetland swale/slough	0.29	Yes	69
WET-Z	Forested wetland depression	1.3	Yes	70
WET-AA	Forested wetland depression	0.57	Yes	71
WET-AB	Forested wetland swale/slough	4.4	Yes	72, 73, 74
WET-AC	Agricultural wetland swale/slough	0.21	Yes	73, 74
WET-AD	Former pond wetland	0.16	No	75, 76
WET-AE	Forested wetland swale/slough	8.1	Yes	77, 79
WET-AF	Agricultural wetland swale/slough	0.88	Yes	78, 79
WET-AG	Agricultural (primarily) wetland swale/slough	0.12	Yes	81
WET-AH	Agricultural wetland swale/slough	0.51	Yes	82
WET-AI	Agricultural field wetland	0.2	Yes	83, 84
WET-AJ	Agricultural wetland swale/slough	1.4	Yes	85, 98
WET-AK	Agricultural wetland swale/slough	2.5	Yes	86, 98
WET-AL	Forested wetland swale/slough	0.74	Yes	87, 98
WET-AM	Agricultural wetland swale/slough	2.5	Yes	88, 89
WET-AN	Agricultural wetland swale/slough	0.74	Yes	90, 91
WET-AO	Agricultural wetland swale/slough	1.8	Yes	92, 98
WET-AP	Forested wetland swale/slough	2.2	Yes	93, 98
WET-AQ	Agricultural wetland swale/slough	0.72	Yes	94

Table 2. Summary of	47 wetland features.
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Wetland ID	Vegetative Community Type(s)	Area (acres)	Jurisdictional Wetland	Photo(s) ID
WET-AR	Agricultural wetland swale/slough	1.9	Yes	95
WET-AS	Agricultural wetland swale/slough	2.5	Yes	96
WET-AT	Forested wetland swale/slough	0.63	Yes	96
WET-AU	Forested wetland (on river side of levee)	2.5	Yes	99
	Total Acreage	92.08		

Table 2. Summary of 47 wetland features (continued).

Note: No data points were established for WET-O, WET-P, and WET-Q due to lack of permission to access the property. These wetland features are described and delineated based on observations from nearby, drone reconnaissance, aerial imagery, and lidar.

3.2.1 Vegetation

The project area consists of ten primary vegetative community types:

- Agricultural field herbaceous wetland community;
- Agricultural herbaceous wetland swale/slough community;
- Forested wetland swale/slough community;
- Herbaceous wetland swale/drainageway community;
- Forested bottomlands wetland community;
- Row-planted forested wetland community;
- Inundated herbaceous wetland community;
- Former borrow area wetland community;
- Agricultural upland field community;
- Row-planted upland forested community;
- Forested upland community.

The agricultural field herbaceous wetland community, including WET-B, WET-F, WET-I, WET-P, and WET-AI, appeared to be periodically harvested for hay (although some areas within WET-B have some immature trees growing, indicating the last cut may have been several years ago) and/or in recent soybean production. This community type is primarily dominated by broom-sedge (*Andropogon virginicus*). Other species commonly observed within

this community, but not generally dominant throughout the community included sweetgum (*Liquidambar styraciflua*), curly dock (*Rumex crispus*), soft rush (*Juncus effusus*), a buttercup (*Ranunculus* sp.) (not identified to species due to time of year), coffeeweed (*Sesbania herbacea*), and late goldenrod (*Solidago gigantea*).

The agricultural herbaceous wetland swale/slough community, including WET-D, WET-W, WET-Y, WET-AC, WET-AF, WET-AG, WET-AH, WET-AJ, WET-AK, WET-AM, WET-AN, WET-AO, WET-AQ, WET-AR, and WET-AS, is located in the western half of the project area. These wetland features that are generally linear in nature (most of which area associated with historic meander scars) and appear to be periodically, entirely or in part, in agricultural crop production and/or cut for hay. This community type is dominated by a Caric sedge (*Carex* sp.) (not identified to species due to time of year), an unidentified herb (not identified to species due to time of year), an unidentified herb (not identified to species due to time of year), soft rush, curly dock, broom sedge, water smartweed (*Persicaria amphibia*), and common spikerush (*Eleocharis palustris*).

The forested wetland swale/slough community, including WET-H, WET-N, WET-Q, WET-X, WET-AB, WET-AE, WET-AL, WET-AP, and WET-AT, includes wetland features that are primarily forested (with some dominant shrubs) areas, generally linear in nature, and appear to be frequently inundated. This community type is dominated by a green ash (*Fraxinus pennsylvanica*), black gum (*Nyssa aquatica*), American elm (*Ulmus americana*), soft rush, curly dock, broom sedge, water smartweed, sugar-berry (*Celtis laevigata*), cottonwood (*Populus deltoides*), black willow (*Salix nigra*), button-bush (*Cephalanthus occidentalis*), and common duckweed (*Lemna minor*).

The herbaceous wetland swale/drainageway community, including WET-L and WET-M, includes wetland features that are primarily herbaceous (with some tree/shrub species) areas, generally linear in nature, and appear to be frequently inundated. This community type is dominated by button-bush, soft rush, bushy seedbox (*Ludwigia alternifolia*), and common duckweed.

The forested bottomland wetland community (WET-G) is dominated by cottonwood, black willow, sugar-berry, sweetgum, water oak, Alabama supple-jack (*Berchemia scandens*) and giant cane (*Arundinaria gigantea*). The row-planted forested wetland community, including WET-Z and WET-AA, is primarily dominated by willow oak (*Quercus phellos*), water oak (*Quercus nigra*), black gum, green ash, and soft rush.

The inundated herbaceous wetland community, including WET-O, WET-S, and WET-U, is primarily dominated by soft rush, bushy seedbox, floating primrose-willow (*Ludwigia peploides*), a buttercup (*Ranunculus* sp.), and alligator-weed (*Althernanthera philoxeroides*).

The former borrow area wetland community, (WET-A), is primarily dominated by black willow, sweetgum, American lotus (*Nelumbo lutea*), soft rush, broomsedge, bushy seedbox, a buttercup, and common duckweed.

The agricultural upland field community areas, the primary vegetative community within the project area, appeared to be recently in soybean production and/or cut for hay. This community type is generally dominated by late goldenrod, broom-sedge, soybean (*Glycine max*), an unidentified (due to time of year) grass, hairy bittercress (*Cardamine hirsute*), hairy vetch (*Vicia villosa*), curly dock, Bermuda grass (*Cynodon dactylon*), hairy buttercup (*Ranunculus sardous*), perennial ryegrass (*Lolium perenne*), annual bluegrass (*Poa annua*), a geranium (*Geranium* sp.), Canada wild rye (*Elymus canadensis*), etc. (Attachment B, Photos 1-9).

The row-planted upland forested community, located on a tract near the central portion of the project area, is dominated primarily by willow oak and water oak, with planted southern bald cypress (*Taxodium distichum*) along the western edge (Attachment B, Photos 10-11).

The forested upland community, located in several locations throughout the project area, is dominated by southern red oak (*Quercus falcata*), water oak, cottonwood, sweetgum, sugarberry, green ash, American elm, black cherry (*Prunus serotina*), American hophornbeam (*Ostrya virginiana*), box elder (*Acer negundo*), flowering dogwood, Chinese privet (*Ligustrum sinense*), giant cane, Japanese honeysuckle (*Lonicera japonica*), southern dewberry (*Rubus trivialis*), common greenbrier (*Smilax rotundifolia*), fringed greenbrier (*Smilax bona-nox*), and eastern poison ivy (*Toxicodendron radicans*).

Secondary plant communities include a forested wetland (WET-E), forested wetland depressions (WET-J, WET-K, WET-R, WET-T, and WET-V), a forested wetland on the river side of the levee (WET-AU), a former pond wetland (WET-AD), an herbaceous/scrub/shrub field edge wetland (WET-C), maintained residential yard communities, disturbed and maintained

roadside communities, etc. Vegetative species observed in these areas include species observed in other community types listed above.

Table 1 identifies sampling point locations where positive indicators of hydrophytic vegetation were observed.

3.2.2 Hydrology

Onsite wetlands appear to receive hydrology from a variety of sources including rainfall, local runoff, shallow groundwater, and localized flooding. Hydrologic indicators were primarily observed within identified wetland areas. However, due to the delineation being conducted during a period of the year with heavy rainfall, surface hydrology was observed in several upland areas. Hydrologic indicators observed within wetland features included the following: surface water, high water table, saturation, water marks, sediment deposits, drift deposits, inundation visible on aerial imagery, water-stained leaves, drainage patterns, crayfish burrows, saturation visible on aerial imagery, and positive FAC-neutral tests.

Table 1 identifies sampling point locations where positive indicators of wetland hydrology were observed.

3.2.3 Hydric Soils

The SCS *Soil Survey of Pulaski County, Arkansas* and the NRCS Web Soil Survey 3.2, illustrate eight soil map units within the project area:

- Bruno fine sandy loam;
- Keo silt loam (as listed in the Soil Survey of Pulaski County) / Keo silt loam, 0 to 1 percent slopes, rarely flooded (as listed on the Web Soil Survey);
- Latanier silty clay;
- Moreland silty clay;
- Norwood silty clay loam;
- Perry clay, 0 to 1 percent slopes, rarely flooded;
- Rilla silt loam, 0 to 1 percent slopes; and
- Rilla silt loam, 3 to 5 percent slopes.

The Bruno fine sandy loam map unit makes up a small (<1%) portion of the project area and is located near the southwestern corner of the project area. The SCS describes the Bruno fine sandy loam map unit as excessively drained, level to nearly level soils found on natural levees along the Arkansas River. The Bruno fine sandy loam is a non-hydric soil with hydric inclusions.

The Keo silt loam map unit makes up approximately 18% of the project area and is located in portions of the northern half of the project area. The SCS describes the Keo soil series as well-drained, level soils found on natural levees. The Keo silt loam is a non-hydric soil with hydric inclusions.

The Latanier silty clay map unit makes up a relatively small (\sim 3%) portion of the project area and is located in the southwestern portion of the project area. The SCS describes the Latanier silty clay map unit as a somewhat poorly drained, level soil found in slack-water areas on the Arkansas River floodplain. The Latanier silty clay is a non-hydric soil with hydric inclusions.

The Moreland silty clay map unit makes up approximately 5% of the project area and is located in linear areas along the western project area boundary. The SCS describes the Moreland silty clay as somewhat poorly drained, level soil found on floodplains along the Arkansas River. The Moreland silty clay is a non-hydric soil with hydric inclusions.

The Norwood silty clay loam map unit makes up approximately 20% of the project area and is located in several areas throughout the project area. The SCS describes the Norwood silty clay loam map unit as well drained, level soils found along the Arkansas River. The Norwood silty clay loam is a non-hydric soil with hydric inclusions.

The Perry clay, 0 to 1 percent slopes, rarely flooded map unit makes up approximately 8% of the project area and is located in linear areas along the western project area boundary. The SCS describes the Perry soil series as poorly-drained, level soils found on bottomlands. The Perry clay is a hydric soil with both hydric and non-hydric inclusions.

The Rilla silt loam map units combine to make up approximately 43% of the project area and are located in several areas throughout the project area. The SCS describes the Rilla silt loam map units as well-drained, level and gently sloping soils found on natural levees. Both the Rilla silt loam, 0 to 1 percent slopes map unit and the Rilla silt loam, 3 to 5 percent slopes map unit are non-hydric soils with hydric inclusions. Approximately 2% of the project area is mapped as Borrow Pits and Levees, rather than a soil unit designation.

Table 1 identifies sampling point locations where positive indicators of hydric soils were observed.

3.3 Other Waters of the US

The USGS *The National Map* Topo basemap for quadrangle Sweet Home, AR (7.5-minute series) maps two canal drainage ditches and a wetland complex area within the project area.

WET-X, WET-Y, WET-AB, WET-AC, WET-AE and WET-AF, observed during field investigations and described above in Section 3.2, are coincident with mapped USGS wetlands within the project area.

The USGS maps two canal ditches within the project area. The location of these two mapped ditches were observed during field investigations and confirmed to be maintained manmade ditches, i.e., Farm Ditch-1 and Farm Ditch-4. Additionally, five other unmapped linear farm drainage ditches, i.e., Farm Ditch-2, Farm Ditch-3, Farm Ditch-5, Farm Ditch-6, and Farm Ditch-7, were observed within the project area. Based on field observations, these seven features are linear farm drainage ditches totaling approximately 14,716 linear feet. Due to the hydrologic connectivity of these ditches to Fourche Bayou and the assumption that these ditches hold water during periods of the year and therefore may be considered relatively permanent waters, there is a potential that these ditches may be considered jurisdictional features under Section 404 of the CWA.

Three ephemeral drainage channels (EPH-1, EPH-2, and EPH-3) were observed within the project area. All three channels are located in the northwestern portion of the project area, between WET-E and WET-F. Each of the three channels drain out of WET-E and combine to continue southeast to WET-F. Due to the hydrologic connectivity to a wetland feature that is ultimately connected to a TNW, it is likely that these three ephemeral channels will be considered jurisdictional features under Section 404 of the CWA.

Two open water ponds (OW-1 and OW-2) were observed within the project area. Both of these pond features appear to be man-made ponds, likely dug in uplands, that lack a direct surface hydrologic connection to a downstream waterway. Additionally, both ponds are mapped

by the Federal Emergency Management Agency (FEMA) in a shaded and hatched Zone X floodplain (see Section 4). Due to the lack of hydrologic connection and mapping within a Zone X floodplain, it is likely that these pond features will not be considered jurisdictional features under Section 404 of the CWA.

Table 3 provides a summary of non-wetland aquatic features.

Feature ID	Feature Type	Size (linear feet/acres)	Photo(s) ID		
Farm Ditch-1	Dug farm drainage ditch	5,473 lf	16, 17, 19		
Farm Ditch-2	Dug farm drainage ditch	968 lf	18, 19		
Farm Ditch-3	Dug farm drainage ditch	1,448 lf	20		
Farm Ditch-4	Dug farm drainage ditch	4,875 lf	21, 22		
Farm Dtich-5	Dug farm drainage ditch	531 lf	23		
Farm Ditch-6	Dug farm drainage ditch	612 lf	24		
Farm Ditch-7	Farm Ditch-7 Dug farm drainage ditch		25, 98		
EPH-1	EPH-1 Ephemeral channel		13		
EPH-2	EPH-2 Ephemeral channel		14		
EPH-3	EPH-3 Ephemeral channel		15		
OW-1	Man-made open water pond	0.04 ac	26		
OW-2	Man-made open water pond	0.61 ac	28, 28		
(linear feet of t	Total size (linear feet of farm ditches and ephemeral channels/acres of open water)				

Table 3. Summary of non-wetland aquatic features.

3.4 Downstream Hydrologic Connectivity

Most of the surface water leaving the project area is generally directed toward the west via farm drainage ditches and wetland features and on to Fourche Bayou. Fourche Bayou flows generally south and then east to its confluence with the Arkansas River. Drainage from the northeastern portion of the project area is conveyed through the levee via a culvert with a flap gate and on to the Arkansas River. Two open water ponds (OW-1 and OW-2) appear to lack a direct hydrologic surface connection with a downstream waterway. The southeastern portion of the project area, including WET-N, WET-O, WET-P, WET-Q, WET-R, WET-S, WET-T, and WET-U, appears to lack a direct hydrologic connection to a downstream waterway. This lack of connectivity is largely associated with construction of the levee (which occurred, based on a

review of available historic aerial imagery, in the late 1940s or early 1950s) and may also be the result of other historic activities in the area.

4.0 FEMA 100-YEAR FLOODPLAIN AND FLOODWAY ISSUES

The Federal Emergency Management Agency (FEMA) maps the majority of the project area as shaded and hatched Zone X. This shaded and hatched Zone X is a designation for areas with reduced flood risk due to levee protection. One small (~0.5 acre) portion of the project area, just east of the levee along the eastern project boundary, is mapped as shaded Zone X. Shaded Zone X is a designation for areas with a 0.2% annual chance flood hazard or areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile. Portions of the northern half of the project area, totaling ~290 acres, are mapped as Zone X. Zone X is a designation for areas of minimal flood hazard that are outside the 0.2 percent annual-chance flood. Various portions of the project area, located along the eastern and western boundaries and totaling ~53 acres, are mapped as a Zone AE floodplain. Zone AE is a special flood hazard area with base flood elevations or depths determined. One small (~5 acre) portion of the project area, just east of the levee along the eastern project boundary, is mapped as a Zone AE Regulatory Floodway. Zone AE Regulatory Floodway consists of the channel of the river and the adjacent lands which convey the base flood. Figure 5 shows the project area with FEMA's National Flood Hazard Layer data overlay.

5.0 SUMMARY AND CONCLUSIONS

- FTN observed 47 wetland features, totaling approximately 92.08 acres within the project area,
 - Nine (9) of these wetland features, totaling approximately 6.22 acres, appear to lack a hydrologic surface connection to a TWN and therefore are unlikely to be subject to jurisdiction under Section 404 of the CWA.
 - Thirty-eight (38) of these wetland features, totaling approximately 85.86 acres, are hydrologically connected to a TNW and therefore are likely subject to jurisdiction under Section 404 of the CWA.
- FTN observed three (3) ephemeral channels, totaling approximately 423 linear feet within the project area, that are likely subject to jurisdiction under Section 404 of the CWA.
- FTN observed seven (7) farm ditch features, totaling approximately 14,716 linear feet within the project area, that are potentially subject to jurisdiction under Section 404 of the CWA.
- FTN observed two (2) open water ponds, totaling approximately 0.65 acres within the project area, that appear to lack a hydrologic surface connection to a TNW and therefore are unlikely to be subject to jurisdiction under Section 404 of the CWA.
- Portions of the project area are located within a mapped FEMA floodplain/floodway.





Figure 2. Map showing overview of project area and panel numbering overlaid on the USGS *The National Map* Topo basemap for quadrangle Sweet Home, AR (7.5-minute series).



Figure 3.1 Map showing project area details overlaid on the USGS *The National Map* Topo basemap for quadrangle Sweet Home, AR (7.5-minute series).



Figure 3.2 Map showing project area details overlaid on the USGS *The National Map* Topo basemap for quadrangle Sweet Home, AR (7.5-minute series).



Figure 3.3 Map showing project area details overlaid on the USGS *The National Map* Topo basemap for quadrangle Sweet Home, AR (7.5-minute series).



Figure 3.4 Map showing project area details overlaid on the USGS *The National Map* Topo basemap for quadrangle Sweet Home, AR (7.5-minute series).



Figure 3.5 Map showing project area details overlaid on the USGS *The National Map* Topo basemap for quadrangle Sweet Home, AR (7.5-minute series).



Figure 3.6 Map showing project area details overlaid on the USGS *The National Map* Topo basemap for quadrangle Sweet Home, AR (7.5-minute series).



Figure 3.7 Map showing project area details overlaid on the USGS *The National Map* Topo basemap for quadrangle Sweet Home, AR (7.5-minute series).



Figure 3.8 Map showing project area details overlaid on the USGS *The National Map* Topo basemap for quadrangle Sweet Home, AR (7.5-minute series).



Figure 3.9 Map showing project area details overlaid on the USGS *The National Map* Topo basemap for quadrangle Sweet Home, AR (7.5-minute series).



Figure 4.1 Map showing project area details overlaid on aerial imagery via ESRI World Imagery service (captured July 2022.)



Figure 4.2 Map showing project area details overlaid on aerial imagery via ESRI World Imagery service (captured July 2022.)


Figure 4.3 Map showing project area details overlaid on aerial imagery via ESRI World Imagery service (captured July 2022.)



Figure 4.4 Map showing project area details overlaid on aerial imagery via ESRI World Imagery service (captured July 2022.)



Figure 4.5 Map showing project area details overlaid on aerial imagery via ESRI World Imagery service (captured July 2022.)



Figure 4.6 Map showing project area details overlaid on aerial imagery via ESRI World Imagery service (captured July 2022.)



Figure 4.7 Map showing project area details overlaid on aerial imagery via ESRI World Imagery service (captured July 2022.)



Figure 4.8 Map showing project area details overlaid on aerial imagery via ESRI World Imagery service (captured July 2022.)



Figure 4.9 Map showing project area details overlaid on aerial imagery via ESRI World Imagery service (captured July 2022.)



Figure 5. Map showing project area details with FEMA's National Flood Hazard Layer data overlaid on aerial imagery via ESRI World Imagery service (captured July 2022.)



Figure 6. Map showing project area details overlaid on the USGS The National Map Topo basemap for quadrangle Sweet Home, AR (7.5-minute series)



d on aerial imagery via ESRI World Imagery service (captured July 2022.)



Sampling Site Data Sheets

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-03-06
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Township		
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ve, convex, none): Concave	Slope (%): 0-2
			Datum: WGS 84
Soil Map Unit Name: Ko - Keo silt Ioam, 0 to 1 po			
Are climatic / hydrologic conditions on the site typical f			
Are Vegetation, Soil, or Hydrology	-		
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site n		· · · ·	
			, <u> </u>
Hydrophytic Vegetation Present? Yes <u>V</u> Hydric Soil Present? Yes <u>V</u>	No Is the Sam No within a W	•	
	No within a W	etland? Yes 🔽	No
Remarks:			
Agricultural field.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; chec	ck all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	uatic Fauna (B13)	📙 Sparsely Ve	getated Concave Surface (B8)
	arl Deposits (B15) (LRR U)	Drainage Pa	tterns (B10)
	drogen Sulfide Odor (C1)	Moss Trim Li	· · ·
	kidized Rhizospheres along Living F		Water Table (C2)
	esence of Reduced Iron (C4)	Crayfish Bur	(),
	cent Iron Reduction in Tilled Soils		sible on Aerial Imagery (C9)
	in Muck Surface (C7) her (Explain in Remarks)		Position (D2)
Inundation Visible on Aerial Imagery (B7)	ner (Explain in Remarks)	Shallow Aqu	
Water-Stained Leaves (B9)		=	noss (D8) (LRR T, U)
Field Observations:			
	_ Depth (inches): <u>3-6</u>		
	Depth (inches):		
	Depth (inches):	Wetland Hydrology Preser	nt? Yes 🖌 No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring			
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspec	tions), if available:	
Remarks:			

20.4		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2				
3				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
4				Demonst of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				$\begin{array}{c} \hline \hline \\ $
		= Total Cov		FACW species $2 \times 2 = 4$
50% of total cover:	20% of	total cover	:	FAC species 88 x 3 = 264
Sapling/Shrub Stratum (Plot size: 15 ft r)	_			FACU species $0 \times 4 = 0$
1 Liquidambar styraciflua	5	<u> </u>	FAC	UPL species $0 \times 5 = 0$
2. Fraxinus pennsylvanica	2	 ✓ 	FACW	105 000
3				Column Totals: 105 (A) 283 (B)
4				Prevalence Index = $B/A = 2.7$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				 ✓ 2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^{1}$
		= Total Cov	er	
50% of total cover: 3.5				Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 15 ft r)			·	1
1. Andropogon virginicus	80	~	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Ludwigia alternifolia	10		OBL	Definitions of Four Vegetation Strata:
3. Scirpus cyperinus	5		OBL	Demittions of Four vegetation Strata.
Juncus tenuis	3		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
··				more in diameter at breast height (DBH), regardless of height.
5				noight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	98%	= Total Cov		
500/ (1.1.1				
50% of total cover: <u>49.0</u>	20% 01	total cover	19.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
	:	= Total Cov	rer	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes V No
Remarks: (If observed, list morphological adaptations below	ow).			
	,			

Profile Desc	ription: (Describ	e to the depth	needed to docun	nent the i	ndicator	or confirm t	he absence	of indicator	rs.)	
Depth	Matrix		Redox	Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	<u>S</u>
-										
-										
						<u> </u>				
-						<u> </u>				
-										
-										
1							2			
			Reduced Matrix, MS RRs, unless other			ains.	Indicators	PL=Pore Li		
-									-	10 30115 .
Histosol			Polyvalue Be					luck (A9) (L		
Black Hi	oipedon (A2)		Thin Dark Su					luck (A10) (I		le MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			. 0)				19) (LRR P, S, T)
	l Layers (A5)		Depleted Mat)			lous Bright I		
	Bodies (A6) (LRR	P. T. U)	Redox Dark S	· · /	6)			RA 153B)		- ()
	icky Mineral (A7) (Depleted Dar	•	,			arent Materia	al (TF2)	
	esence (A8) (LRR		Redox Depre	ssions (F8	B)		Very SI	hallow Dark	Surface (T	F12)
🔲 1 cm Mu	ick (A9) (LRR P, T)	Marl (F10) (L	RR U)			✓ Other (Explain in R	lemarks)	
—	d Below Dark Surfa	ace (A11)	Depleted Och				0			
	ark Surface (A12)		Iron-Mangane					-		getation and
	rairie Redox (A16)					, U)		and hydrolo		
	lucky Mineral (S1) Gleyed Matrix (S4)	(LRR 0, 5)				0A 150D)	unie	ess disturbed	a or problei	natic.
	edox (S5)		Reduced Ver				۵)			
	Matrix (S6)		Anomalous B					153D)		
	rface (S7) (LRR P,	S, T, U)				20) (11210)		1002)		
	_ayer (if observed	-								
Туре:										
Depth (ind	ches):						Hydric Soil	Present?	Yes 🖌	No
Remarks:							-			
No nit d	ua due to in	undation	; hydric soil	6 2661	med					
No pit u	ug uue to in	undation	, flydric 30ff	5 0550	inteu.					

Project/Site: Port of Little Rock Cit	y/County: Pulaski County	Sampling Date: 2023-03-06			
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-02				
nvestigator(s): Jimmy Rogers Section, Township, Range: S28 T1N R11W					
Landform (hillslope, terrace, etc.): Flat Lo	cal relief (concave, convex, none): None	Slope (%): 0			
Subregion (LRR or MLRA): P 133B Lat: 34.6813					
Soil Map Unit Name: RmA - Rilla silt Ioam, 0 to 1 percent slopes		ification: none			
Are climatic / hydrologic conditions on the site typical for this time of year					
Are Vegetation, Soil, or Hydrology significantly dis					
Are Vegetation, Soil, or Hydrology naturally proble					
SUMMARY OF FINDINGS – Attach site map showing s		·			
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓ Remarks: Yes Yes Yes Yes	Is the Sampled Area within a Wetland? Yes _	No			
Agricultural field.					
Wetland Hydrology Indicators:	Secondary In	dicators (minimum of two required)			
Sediment Deposits (B2) Presence of Reduced Drift Deposits (B3) Recent Iron Reduction Algal Mat or Crust (B4) Thin Muck Surface (C Iron Deposits (B5) Other (Explain in Rem Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Mode Depth (inches):	Image: Constraint of the second se	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) n Lines (B16) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) ihic Position (D2) Aquitard (D3) tral Test (D5) m moss (D8) (LRR T, U)			
Water Table Present? Yes No _ Depth (inches): _ Saturation Present? Yes No _ Depth (inches): _ (includes capillary fringe) Yes No _ Depth (inches): _		sent? Yes No			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, Remarks:	previous inspections), if available:				

Sampling Point:	SP-02
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	Absolute	Dominan	t Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1	% Cover			Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>1</u> (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8	·			Total % Cover of: Multiply by:
	:	= Total Co	over	OBL species 0 $x = 0$
50% of total cover:	20% of	total cove	er:	FACW species $\frac{0}{90}$ x 2 = $\frac{0}{270}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 90 x 3 = 270
1				FACU species $\frac{0}{2}$ x 4 = $\frac{0}{2}$
2				UPL species 0 $x 5 = 0$
3				Column Totals: <u>90</u> (A) <u>270</u> (B)
4				Prevalence Index = B/A = <u>3.0</u>
5				Hydrophytic Vegetation Indicators:
6	·			1 - Rapid Test for Hydrophytic Vegetation
7				☑ 2 - Dominance Test is >50%
8	·	-		□ 3 - Prevalence Index is $\leq 3.0^{1}$
	:	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	r:	
Herb Stratum (Plot size: <u>15 ft r</u>) Andropogon virginicus	90		EAC	¹ Indicators of hydric soil and wetland hydrology must
Banunaulus en	5		FAC	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				neight.
6 7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Ĵ ()
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11	·			height.
12	·			
		= Total Co		
50% of total cover: 47.5	20% of	total cove	r: <u>19.0</u>	
Woody Vine Stratum (Plot size: 30 ft r)				
1	·			
2	·			
3	·			
4	·	-		
5	·	-		Hydrophytic
		= Total Co		Vegetation Present? Yes V No
50% of total cover:	20% of	total cove	r:	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of indic	ators.)	
Depth	Matrix		Redo	ox Features	3				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 - 18	10YR 4/3	100					Silt		
						·			
-							·		
-									
						·			
-									
-									
17				<u> </u>	0		21	- 1 in in	
	oncentration, D=Dep Indicators: (Applie					ains.	² Location: PL=Por Indicators for Prol		
-		cable to all L						-	: 50115 :
Histosol	. ,		Polyvalue B						
	oipedon (A2)		Thin Dark S				2 cm Muck (A1		
	stic (A3)		Loamy Muck	-		R O)			MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley		=2)				9) (LRR P, S, T)
	d Layers (A5)		Depleted Ma	trix (F3)				ght Loamy Soils	(F20)
	Bodies (A6) (LRR F		Redox Dark	•			(MLRA 153B		
🔲 5 cm Mu	icky Mineral (A7) (L	RR P, T, U)	Depleted Da	rk Surface	(F7)		Red Parent Ma	terial (TF2)	
Muck Pr	esence (A8) (LRR I	ר)	Redox Depr	essions (F8	3)		Ury Shallow D	ark Surface (TF	12)
🗌 1 cm Μι	ick (A9) (LRR P, T)		Marl (F10) (I	_RR U)			Other (Explain	in Remarks)	
Depleted	d Below Dark Surfac	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)			
Thick Da	ark Surface (A12)		Iron-Mangar	ese Masse	es (F12) (LRR O, P	T) ³ Indicators of	hydrophytic veg	etation and
Coast P	rairie Redox (A16) (MLRA 150A)						rology must be	
	lucky Mineral (S1)		Delta Ochric					rbed or problem	
	Bleyed Matrix (S4)	-,-,	Reduced Ve			50A. 150B)			
	Redox (S5)		Piedmont Fl						
	Matrix (S6)			•	• •	•	RA 149A, 153C, 153D)		
	rface (S7) (LRR P,	S. T. U)		Singin Louin		o) (
	Layer (if observed)								
		-							
Type:									
Depth (in	ches):						Hydric Soil Present	? Yes	No
Remarks:									

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-03-06
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Township		
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ve. convex. none): Concave	Slope (%); 01
			Datum: WGS 84
Soil Map Unit Name: Ko - Keo silt Ioam, 0 to 2			
Are climatic / hydrologic conditions on the site typic			
Are Vegetation, Soil, or Hydrology	-		
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach sit	e map showing sampling poi	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sam		
Hydric Soil Present? Yes	No No		
	No within a We	etland? Yes <u>*</u>	No
Remarks:			
Agricultural field.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; c	heck all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	🔲 Sparsely Veo	getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pa	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Li	. ,
Water Marks (B1)	Oxidized Rhizospheres along Living R		Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burr	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Position (D2)
$\square \text{ Iron Deposits (B5)} \qquad \square$	Other (Explain in Remarks)	Shallow Aqu	. ,
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)		🔲 Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
	Depth (inches): 0-6		
	Depth (inches): 0		
Saturation Present? Yes <u>Ves</u> No No	Depth (inches): 0	Wetland Hydrology Preser	nt? Yes <u> </u>
Describe Recorded Data (stream gauge, monitor	ng well, aerial photos, previous inspect	tions), if available:	
Remarks:			

00.0		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>)	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
1 2	·			
3				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				Development had a set
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species $0 x 1 = 0$
50% of total cover:	20% of	total cover	:	FACW species $\frac{0}{100}$ x 2 = $\frac{0}{200}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species $\frac{102}{2}$ x 3 = $\frac{306}{2}$
1. Liquidambar styraciflua	2	~	FAC	FACU species 0 $x 4 = 0$
2.				UPL species $0 \times 5 = 0$
3				Column Totals: <u>102</u> (A) <u>306</u> (B)
4				Prevalence Index = B/A = 3.0
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				 ✓ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50%
8				
···	2%	= Total Cov	/er	3 - Prevalence Index is $\leq 3.0^{1}$
50% of total cover: 1.0				Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 10 ft r)	20 /0 01			1
Andropogon virginicus	95	~	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Juncus tenuis			FAC	Definitions of Four Vegetation Strata:
3. Ranunculus sp.	1		17.0	Demittons of Four vegetation Strata.
	· <u> </u>			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
				Woody vine – All woody vines greater than 3.28 ft in height.
11 12.	·			neight.
12	101%	= Total Cov		
50% of total cover: 50.5		total cover		
	20% 01			
Woody Vine Stratum (Plot size: <u>30 ft r</u>)				
1				
2				
3				
4	·			
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes V No
50% of total cover:	20% of	total cover	:	
Remarks: (If observed, list morphological adaptations belo	ow).			

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirn	n the absence	of indicators	s.)	
Depth	Matrix			x Feature						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	<u> </u>
0 - 3	5YR 5/2	95	5YR 4/6	5	C	M	Silty Clay Loam			
2 - 18	5YR 6/2	90	5YR 4/6	10	С	М	Silty Clay Loam			
-										
				·						
·		·			<u> </u>		<u> </u>			
-						. <u> </u>				
-				. <u></u>						
-										
¹ Type: C=Co	oncentration. D=Dep	letion. RM	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location:	PL=Pore Lin	ing, M=Matrix	ζ.
			LRRs, unless other						atic Hydric S	
Histosol	(A1)		Polyvalue Be	low Surfa	ace (S8) (L	.RR S, T, I	U) 🛛 1 cm M	luck (A9) (LR	(R O)	
	bipedon (A2)		Thin Dark Su		· / ·		·	luck (A10) (L		
Black Hi	• • •		Loamy Mucky							ILRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix ((F2)		D Piedmo	ont Floodplair	n Soils (F19)	(LRR P, S, T)
Stratified	l Layers (A5)		Depleted Mat	trix (F3)			L Anoma	lous Bright L	oamy Soils (F	[:] 20)
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark S	Surface (F	F6)			RA 153B)		
	icky Mineral (A7) (Lf		Depleted Dar	k Surface	e (F7)			arent Materia	· ·	
	esence (A8) (LRR U)	Redox Depre		8)				Surface (TF12	2)
	ick (A9) (LRR P, T)		Marl (F10) (L				U Other (Explain in Re	emarks)	
	Below Dark Surfac	e (A11)	Depleted Och							
	ark Surface (A12)		Iron-Mangan					-	ophytic vegeta	
	rairie Redox (A16) (I					, U)			gy must be pre	
	lucky Mineral (S1) (I	_RR 0, S)	Delta Ochric			04 4500		ess disturbed	or problemat	iC.
	Bleyed Matrix (S4)		Reduced Ver							
	edox (S5) Matrix (S6)		Piedmont Flo				49A) RA 149A, 153C,	153D)		
	rface (S7) (LRR P, S	хт II)		ingni Lua	Thy Solis ((A 149A, 133C,	1550)		
	_ayer (if observed):	-								
Type:	,									
	ches):						Hydric Soil	Present?	Yes 🖌	No
Remarks:							,			
r tomarko.										

Project/Site: Port of Little Rock	(City/County: Pulaski Cou	unty	Sampling Date: 2023-03-06
Applicant/Owner: Port of Little Rock				Sampling Point: SP-04
	S	Section, Township, Range		
				Slope (%): 1
,	Lat: 34.680	•		Datum: WGS 84
Soil Map Unit Name: Ko - Keo silt Ioam, C				
Are climatic / hydrologic conditions on the site				
Are Vegetation, Soil, or Hydro				· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydro			ed, explain any answe	
SUMMARY OF FINDINGS – Attach	site map showing	sampling point loca	ations, transects	, important features, etc.
Hydrophytic Vegetation Present? Ye	es 🖌 No			
Hydric Soil Present? Ye	s 🖌 No	Is the Sampled Are		No 🖌
Wetland Hydrology Present? Ye	es 🖌 No es No 🖌	within a Wetland?	res	
Remarks:				
Agricultural field.				
HYDROLOGY				
Wetland Hydrology Indicators:				tors (minimum of two required)
Primary Indicators (minimum of one is requir		、 、	Surface Soil	
Surface Water (A1)	Aquatic Fauna (B13			etated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15)		☐ Drainage Pat ☐ Moss Trim Li	
Water Marks (B1)		res along Living Roots (C		Water Table (C2)
Sediment Deposits (B2)	Presence of Reduce		Crayfish Burr	
\square Drift Deposits (B3)		on in Tilled Soils (C6)		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (Geomorphic	
Iron Deposits (B5)	Other (Explain in Re	emarks)	Shallow Aqui	
Inundation Visible on Aerial Imagery (B7	7)		FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)			Sphagnum m	noss (D8) (LRR T, U)
Field Observations:				
	No <u> </u> Depth (inches):			
	No <u> </u> Depth (inches):			
Saturation Present? Yes I (includes capillary fringe)	No <u>/</u> Depth (inches):	Wetlar	nd Hydrology Presen	t? Yes No
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos	s, previous inspections), if	available:	
Remarks:				

The second			t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	<u>% Cover</u>			Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant Species Across All Strata: 1 (B)
3 4				Species Across All Strata: <u>1</u> (B)
5				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100 (A/B)
6 7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8				OBL species 0 x 1 = 0
50% of total cover:				FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)	20% 01	IUIAI COVE	I	FAC species <u>100</u> x 3 = <u>300</u>
				FACU species $0 x 4 = 0$
1				UPL species 0 x 5 = 0
2				Column Totals: 100 (A) 300 (B)
3				
4				Prevalence Index = $B/A = 3.0$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\Box 3 - Prevalence Index is $\leq 3.0^1$
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	r:	
Herb Stratum (Plot size: 15 ft r)	05			¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	95	~	FAC	be present, unless disturbed or problematic.
2. Rumex crispus		. <u> </u>	FAC	Definitions of Four Vegetation Strata:
3. Ranunculus sp.	1			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Vicia villosa	1			more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10			<u> </u>	Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	102%	= Total Co	over	
50% of total cover: 51.0				
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				
		= Total Co		Hydrophytic Vegetation
50% of total cover:				Present? Yes <u>V</u> No
			ı	
Remarks: (If observed, list morphological adaptations be	uw).			

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix			x Featur	es			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 5	7.5YR 6/4	100		5			Silt Loam	
5 - 16	7.5YR 6/2	70	7.5YR 4/6	30	С	Μ	Sand	
-								
-		·				·		
							·	
		·					. <u></u>	
-		·					<u> </u>	
-		<u> </u>						
			Reduced Matrix, MS			rains.		PL=Pore Lining, M=Matrix.
Hydric Soil	ndicators: (Applic	able to all	LRRs, unless other	wise no	ted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surf	ace (S8) (I	LRR S , T, U		/luck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					/luck (A10) (LRR S)
Black Hi	()		Loamy Mucky			R O)		ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	l Layers (A5) Bodies (A6) (LRR P	τ ιι	Depleted Mat Redox Dark S		(E6)			alous Bright Loamy Soils (F20) R A 153B)
	cky Mineral (A7) (LRK P		=		,			arent Material (TF2)
	esence (A8) (LRR U		Redox Depre		. ,			hallow Dark Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10) (L		,		Other ((Explain in Remarks)
Depleted	Below Dark Surfac	e (A11)	Depleted Och	nric (F11) (MLRA 1	51)		
	ark Surface (A12)		Iron-Mangan					ators of hydrophytic vegetation and
	airie Redox (A16) (N							land hydrology must be present,
	lucky Mineral (S1) (I ileyed Matrix (S4)	_RR 0, 5)	Delta Ochric					ess disturbed or problematic.
	edox (S5)		Piedmont Flo					
	Matrix (S6)						A 149A, 153C	, 153D)
	face (S7) (LRR P, S	6, T, U)	_	U	, ,			
Restrictive I	ayer (if observed):							
Туре:								
Depth (ind	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:								

Project/Site: Port of Little Rock		City/County: Pulaski Cou	unty	Sampling Date: 2023-02-21		
Applicant/Owner: Port of Little Rock				Sampling Point: SP-05		
Landform (hillslope, terrace, etc.): Flat		Local relief (concave, conv	ex. none): Convex	Slope (%): 1		
	Lat: 34.67			Datum: WGS 84		
Soil Map Unit Name: Ko - Keo silt Ioa						
Are climatic / hydrologic conditions on the						
Are Vegetation, Soil, or H				· · · · · · · · · · · · · · · · · · ·		
Are Vegetation, Soil, or H			d, explain any answe			
SUMMARY OF FINDINGS - Att	tach site map showing	g sampling point loca	tions, transects	, important features, etc.		
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ ✔ No Yes _ ✔ No Yes _ ✔ No			No		
Agricultural field.						
			Casandan Indiaa	tors (minimum of two required)		
Wetland Hydrology Indicators:	equired: check all that apply)			tors (minimum of two required) Cracks (B6)		
Primary Indicators (minimum of one is r 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)	Aquatic Fauna (B1	13) 5) (LRR U) Odor (C1) neres along Living Roots (C3 ced Iron (C4) ction in Tilled Soils (C6) e (C7) Remarks)	 Drainage Par Moss Trim Li Dry-Season Crayfish Burr Saturation Vi Geomorphic Shallow Aqui FAC-Neutral 	yetated Concave Surface (B8) tterns (B10) nes (B16) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3)		
	No Depth (inches					
	No Depth (inches No Depth (inches nonitoring well, aerial phot	s): <u>0</u> Wetlan	Wetland Hydrology Present? Yes <u>V</u> No			
Remarks:						

		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 x 30</u>)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species 18 x 1 = 18
		= Total Cov		FACW species $0 \times 2 = 0$
50% of total cover:	20% of	total cover	:	FAC species $\frac{78}{78}$ x 3 = $\frac{234}{234}$
Sapling/Shrub Stratum (Plot size: 30 x 30)				FACU species 0 $x 4 = 0$
1. Liquidambar styraciflua	5	 ✓ 	FAC	
2				
3				Column Totals: <u>96</u> (A) <u>252</u> (B)
4				Prevalence Index = $B/A = 2.63$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				 ✓ Propin reserve in Propingie Vegetation ✓ 2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^{1}$
	5% :	= Total Cov	/er	
50% of total cover: 2.5				Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 15 x 15)				
1. Andropogon virginicus	70	~	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Persicaria hydropiperoides	15		OBL	Definitions of Four Vegetation Strata:
3. Dichanthelium dichotomum	3		FAC	Demittons of Four Vegetation Strata.
Juncus effusus	3		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
··				more in diameter at breast height (DBH), regardless of height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 m. DBh and greater than 3.20 m (1 m) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov		
50% of total cover: <u>45.5</u>	20% of	total cover	18.2	
Woody Vine Stratum (Plot size: 30 x 30)				
1				
2				
3				
4				
5				Hydrophytic
	:	= Total Cov	/er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes V No
Remarks: (If observed, list morphological adaptations belo	w).			
· · · · · · · · · · · · · · · · · · ·	,			

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 16	5YR 5/1	80	5YR 5/6	15	С	М	Silt	
-			5YR 2.5/2	5	С	М		
		·						
				·				
<u> </u>		·			<u></u>	·		
		·		·				
-								
¹ Type: C=Co	ncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
			LRRs, unless other					for Problematic Hydric Soils ³ :
Histosol (Histic Ep Black His Hydroge Stratified Organic 5 cm Mu Muck Pro 1 cm Mu Depleted Thick Da Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur	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 leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S	, T, U) R P, T, U)) e (A11) /ILRA 150/ .RR O, S)	 Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye Depleted Math Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Och Iron-Mangand Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo 	low Surfa rface (S9 y Mineral d Matrix trix (F3) Surface (I k Surface ssions (F RR U) nric (F11) ese Mass ce (F13) (F17) (M il tic (F18) odplain S	ace (S8) (L) (LRR S, (F1) (LRR (F2) F6) e (F7) F8) (MLRA 1 (LRR P, T LRA 151) (MLRA 15 Goils (F19)	T, U) 2 O) LRR O, P, , U) 00A, 150B) (MLRA 14	 1 cm M 2 cm M Reduce Piedmo Anoma (MLR Red Pa Very SI Other (T) ³ Indica wetl unle	Muck (A9) (LRR O) Muck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T) alous Bright Loamy Soils (F20) RA 153B) arent Material (TF2) hallow Dark Surface (TF12) (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present, ess disturbed or problematic.
Restrictive L	ayer (if observed):							
Туре:								
Depth (inc	:hes):						Hydric Soil	Present? Yes 🥙 No
Remarks:								

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02-21
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-06
	Section, Township, Range: S28 T1N R11W
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope (%): 1
Subregion (LRR or MLRA): P 133B Lat: 34.67	
Soil Map Unit Name: Ko - Keo silt Ioam, 0 to 1 percent slopes,	
Are climatic / hydrologic conditions on the site typical for this time of ye	
	disturbed? Are "Normal Circumstances" present? YesNo
Are Vegetation, Soil, or Hydrology naturally pro	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓ Remarks: Yes Yes Yes Yes	Is the Sampled Area within a Wetland? Yes No
Agricultural field.	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B1) High Water Table (A2) Marl Deposits (B15) Saturation (A3) Hydrogen Sulfide C Water Marks (B1) Oxidized Rhizosph Sediment Deposits (B2) Presence of Reduct	Bit Surface Soil Cracks (B6) Bit Sparsely Vegetated Concave Surface (B8) Div (LRR U) Dodor (C1) Bit Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dodor (C1) Bit Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dodor (C1) Bit Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Staturation Visible on Aerial Imagery (C9) (C7) Geomorphic Position (D2) emarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo Remarks:	is, previous inspections), it available:

		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
1 2				
3.				Total Number of Dominant Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	:	= Total Cov	/er	OBL species $0 x = 0$
50% of total cover:	20% of	total cover	:	FACW species $\frac{10}{87}$ $x_2 = \frac{20}{261}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species $\frac{87}{2}$ x 3 = $\frac{261}{8}$
1. Liquidambar styraciflua	3	~	FAC	FACU species $\frac{2}{2}$ $x 4 = \frac{8}{2}$
2. Pinus taeda		~	FAC	UPL species 0 $x = 0$
3				Column Totals: <u>99</u> (A) <u>289</u> (B)
4				Prevalence Index = $B/A = 2.92$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				 ✓ 2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^1$
	4%	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2.0				
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must
Andropogon virginicus	80	~	FAC	be present, unless disturbed or problematic.
2. Solidago gigantea	10		FACW	Definitions of Four Vegetation Strata:
3 unidentified aster	5			
4. Rumex crispus	3		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Rudbeckia hirta	2		FACU	height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in height.
12.				noight.
	100% :	= Total Cov	/er	
50% of total cover: 50.0		total cover		
Woody Vine Stratum (Plot size: 30 ft r)	2070 01			
1				
2				
3				
4			·	
5				Hydrophytic Vegetation
50% of total cover:		= Total Cov		Present? Yes <u>V</u> No
		total cover	·	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	indicator	or confirm	n the absence	of indicators.)		
Depth	Matrix			x Feature						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Ren	narks	-
0 - 18	7.5YR 5/4	100		_			Silt			_
-										
						·				•
-										•
-										
					·	·				•
-										•
-										
1 Type: C=C	oncentration, D=De	nletion RM=F	Reduced Matrix M	S=Masker	Sand Gr	ains	² Location:	PL=Pore Lining, M	I=Matrix	
	Indicators: (Applie					uno.		for Problematic H		
			Polyvalue Be			ррети		/luck (A9) (LRR O)	•	
	oipedon (A2)		Thin Dark Su					/luck (A9) (LRR O) /luck (A10) (LRR S)		
Black Hi	,								/ itside MLRA 150A,B)	、
	n Sulfide (A4)		=	-		(0)			s (F19) (LRR P, S, T)	
	()		Loamy Gleye		(FZ)			alous Bright Loamy		!
	Layers (A5)	. .	Depleted Ma	. ,	-0)				50lis (F20)	
-	Bodies (A6) (LRR F		Redox Dark		,			RA 153B)	、 、	
	icky Mineral (A7) (L		Depleted Da					arent Material (TF2		
	esence (A8) (LRR I		Redox Depre	•	8)			hallow Dark Surfac	, ,	
	ick (A9) (LRR P, T)		Marl (F10) (L				<u> </u>	(Explain in Remark	s)	
= .	d Below Dark Surface	ce (A11)	Depleted Oc				2			
	ark Surface (A12)		Iron-Mangan					ators of hydrophytic	-	
	rairie Redox (A16) (land hydrology mus		
	lucky Mineral (S1) (LRR O, S)	Delta Ochric					ess disturbed or pro	blematic.	
Sandy G	eleyed Matrix (S4)		Reduced Ve							
Sandy R	ledox (S5)		Piedmont Flo							
Stripped	Matrix (S6)		Anomalous E	Bright Loai	my Soils ((F20) (MLF	RA 149A, 153C	, 153D)		
	rface (S7) (LRR P,									
Restrictive I	_ayer (if observed)):								
Туре:										
Depth (ind	ches):						Hydric Soil	Present? Yes	No 🖌	
Remarks:	,						-			
r tomanto.										

Project/Site: Port of Little Rock		City/0	County: Pulaski Coun	ty	Sampling Date: 2023-02-21		
Applicant/Owner: Port of Little R	ock				Sampling Point: SP-07		
Investigator(s): Jimmy Rogers		Secti	ion, Township, Range: <u>S</u>	S28 T1N R11W			
Landform (hillslope, terrace, etc.):					Slope (%):		
Subregion (LRR or MLRA): P 133E	3	Lat: 34.67911	Long:	-92.18709	Datum: WGS 84		
Soil Map Unit Name: Ko - Keo sil	t loam, 0 to 1 pe	rcent slopes, rare	ely flooded	NWI classifica	tion: none		
Are climatic / hydrologic conditions of	on the site typical fo	or this time of year?	Yes 🖌 No	(If no, explain in R	emarks.)		
Are Vegetation 🔽 , Soil	, or Hydrology	significantly distu	rbed? Are "Norma	al Circumstances" p	resent? Yes <u>/</u> No		
Are Vegetation, Soil				explain any answer			
SUMMARY OF FINDINGS -				ons, transects	, important features, etc.		
Hydrophytic Vegetation Present?	Yes 🖌	No					
Hydric Soil Present?	Yes	No 🖌	Is the Sampled Area	Vee	No_ 🖌		
Wetland Hydrology Present?	Yes	No 🖌	within a Wetland?	res	NO		
Agricultural field.							
HYDROLOGY Watland Hydrology Indicators				Cocondany Indian	tere (minimum of two required)		
Wetland Hydrology Indicators: Primary Indicators (minimum of on	o is required; chec	k all that apply)		Surface Soil	tors (minimum of two required)		
Surface Water (A1)		uatic Fauna (B13)			jetated Concave Surface (B8)		
High Water Table (A2)	· · ·	rl Deposits (B15) (LR	R U)	Drainage Pat			
\square Saturation (A3)		drogen Sulfide Odor (
Water Marks (B1)		-	along Living Roots (C3)		Water Table (C2)		
Sediment Deposits (B2)		esence of Reduced Irc		Crayfish Burr			
Drift Deposits (B3)		cent Iron Reduction ir			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		n Muck Surface (C7)		Geomorphic Position (D2)			
Iron Deposits (B5)		ner (Explain in Remar	ks)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Im Water-Stained Leaves (B9)	iagery (B7)			FAC-Neutral	Test (D5) noss (D8) (LRR T, U)		
Field Observations:							
	s No 🖌	Depth (inches):					
		Depth (inches):					
		Depth (inches):		Hydrology Presen	t? Yes No 🖌		
(includes capillary fringe) Describe Recorded Data (stream g		vell aerial photos pre	avious inspections) if av	ailable:			
	Jauge, morntoring v	veli, aeriai priotos, pre	evious irispections), ir av	allable.			
Remarks:							

Sampling Point: SP-07

	Absolute			Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>20 x 20</u>) 1	<u>% Cover</u>			Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2				
3.				Total Number of Dominant Species Across All Strata: 1 (B)
4	·			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				$\begin{array}{c} \hline \hline \\ $
	=			FACW species $5 \times 2 = 10$
50% of total cover:	20% of t	total cover	:	FAC species $90 \times 3 = 270$
Sapling/Shrub Stratum (Plot size: 20 x 20)				FACU species 0 $x = 0$
1				UPL species $0 \times 5 = 0$
2				Column Totals: <u>95</u> (A) <u>280</u> (B)
3				
4				Prevalence Index = $B/A = 2.95$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				☑ 2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^1$
	=	Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of t	total cover	:	
Herb Stratum (Plot size: 20 x 20)				¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	90	~	FAC	be present, unless disturbed or problematic.
2. Solidago gigantea	5		FACW	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	95% =	Total Co	/er	
50% of total cover: 47.5	20% of t	total cover	: 19	
Woody Vine Stratum (Plot size: 20 x 20)				
1				
2				
3				
4				
5				Hydrophytic
	=	Total Cov	/er	Vegetation
50% of total cover:	20% of t	total cover	:	Present? Yes Ves No
Remarks: (If observed, list morphological adaptations belo	w).			1

Profile Description: (Describe	e to the dep	th needed to docur	nent the	indicator	or confirm	n the absence o	of indicators.)
Depth Matrix			x Feature	es	2		
(inches) Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 10 5YR 6/3	100					Silt Loam	
10 - 18 7.5YR 6/3	70	7.5YR 5/4	30	С	М	Silty Clay	
		-	<u></u>		·		
					·		
						<u> </u>	
-							
		-				· · · · · ·	
· · · · · · · · · · · · · · · · · · ·					·	·	
						. <u> </u>	
¹ Type: C=Concentration, D=De	pletion, RM=	Reduced Matrix, M	S=Maske	d Sand G	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applie	cable to all	LRRs, unless othe	rwise not	ted.)		Indicators f	or Problematic Hydric Soils ³ :
 Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR II 5 cm Mucky Mineral (A7) (L Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (Sandy Mucky Mineral (S1) (Sandy Redox (S5) Stripped Matrix (S6) 	RR P, T, U) U) ce (A11) (MLRA 1504	Redox Depre Marl (F10) (L Depleted Ocl Iron-Mangan Umbric Surfa Delta Ochric Reduced Ven Piedmont Flo	Irface (S9 y Mineral ed Matrix trix (F3) Surface (I rk Surface essions (F .RR U) hric (F11) ese Mass ince (F13) (F17) (Mil rtic (F18) podplain S	(ILRR S, (F1) (LRR S, (F2) (F2) (F6) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7	T, U) T, U) T, U) 50A, 150B (MLRA 14	2 cm Mu Reduced Piedmon Anomalo (MLR/ Red Par Very Sh Other (E , T) ³ Indica wetla unles	uck (A9) (LRR O) uck (A10) (LRR S) d Vertic (F18) (outside MLRA 150A,B) nt Floodplain Soils (F19) (LRR P, S, T) ous Bright Loamy Soils (F20) A 153B) rent Material (TF2) allow Dark Surface (TF12) Explain in Remarks) tors of hydrophytic vegetation and and hydrology must be present, as disturbed or problematic.
Dark Surface (S7) (LRR P ,	S. T. U)		Silyin Lua	iny Solis	(120) (111	(A 149A, 155C,	1350)
Restrictive Layer (if observed)	-						
Type:	,.						
Depth (inches):						Hydric Soil F	Present? Yes No 🖌
Remarks:						inguite com	

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-02-21
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Township		
Landform (hillslope, terrace, etc.): Flat	Local relief (conca)	e convex none). Concave	e Slope (%): 0-2
Subregion (LRR or MLRA): P 133B Lat			Datum: WGS 84
Soil Map Unit Name: Ko - Keo silt loam, 0 to 1 percent			
Are climatic / hydrologic conditions on the site typical for this			
Are Vegetation, Soil, or Hydrologysig	-		
Are Vegetation, Soil, or Hydrology na	turally problematic? (If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing sampling poir	nt locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No Hydric Soil Present? Yes ✓ No Wetland Hydrology Present? Yes ✓ No	within a We		No
Remarks:			
Agricultural field.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all th	at apply)	Surface Soil	Cracks (B6)
	auna (B13)		getated Concave Surface (B8)
	osits (B15) (LRR U)	Drainage Pa	
	Sulfide Odor (C1)	Moss Trim L	
	Rhizospheres along Living R of Reduced Iron (C4)	Crayfish Bur	Water Table (C2)
	on Reduction in Tilled Soils (isible on Aerial Imagery (C9)
	k Surface (C7)		Position (D2)
Iron Deposits (B5)	plain in Remarks)	Shallow Aqu	itard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	. ,
Water-Stained Leaves (B9)		Sphagnum r	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes <u>Ves</u> No Dept			
Water Table Present? Yes ✓ No Dept Saturation Present? Yes ✓ No Dept		Wetland Hydrology Prese	
(includes capillary fringe)			nt? Yes 🔽 No
Describe Recorded Data (stream gauge, monitoring well, ac	erial photos, previous inspect	ions), if available:	
Remarks:			

20 # -		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: <u>3</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>3</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov	ver	OBL species 10 x 1 = 10
50% of total cover:	20% of	total cover	:	FACW species 15 x 2 = 30
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species <u>60</u> x 3 = <u>180</u>
1. Liquidambar styraciflua	5	~	FAC	FACU species 0 x 4 = 0
2				UPL species $0 \times 5 = 0$
				Column Totals: <u>85</u> (A) <u>220</u> (B)
3				
4				Prevalence Index = $B/A = 2.59$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	·			∠ 2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2.5	20% of	total cover	<u>1.0</u>	
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	40	 ✓ 	FAC	be present, unless disturbed or problematic.
2. Panicum virgatum	15	 ✓ 	FAC	Definitions of Four Vegetation Strata:
3. Solidago gigantea	10		FACW	Tree Mandu planta avaluding vince 2 in (7.6 cm) or
4. Juncus bufonius	5		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Juncus effusus	5		OBL	height.
6. Ludwigia alternifolia	5		OBL	Sanling/Shrub Woody plants evoluting vince loss
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or size, and woody plants less than 5.20 it tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov		
50% of total cover: 40.0	20% of	total cover	16.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	ver	Vegetation
50% of total cover:				Present? Yes V No
Remarks: (If observed, list morphological adaptations belo				1
	vv).			

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	n the absence o	of indicato	ors.)		
Depth <u>Matrix</u>		Redox Features									
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0 - 6	5YR 5/3	100		1			Silt Loam				
6 - 18	7.5YR 7/1	60	5YR 5/6	40	С	М	Silty Clay				
						·					
		·	-	·			·				
		·					<u> </u>				
-	-										
-					_						
-											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.											
			LRRs, unless other			airi3.			matic Hydric S		
Histosol						RRSTI			-		
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U))				
Black Histic (A3)						Reduced Vertic (F18) (outside MLRA 150A,B)					
	Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)						Piedmont Floodplain Soils (F19) (LRR P, S, T)				
	d Layers (A5)		Depleted Mat		()		Anomalous Bright Loamy Soils (F20)				
	Bodies (A6) (LRR P	, T, U)	Redox Dark S	```	F6)		(MLRA 153B)				
	ucky Mineral (A7) (LF						Red Parent Material (TF2)				
	esence (A8) (LRR U		Redox Depre		. ,		Very Shallow Dark Surface (TF12)				
	uck (A9) (LRR P, T)	,	Marl (F10) (L	•	- /			Other (Explain in Remarks)			
	d Below Dark Surfac	e (A11)	Depleted Och		(MLRA 1	51)		•	,		
	ark Surface (A12)		Iron-Mangane				, T) ³ Indica	ators of hyd	drophytic veget	ation and	
Coast P	rairie Redox (A16) (N	ILRA 150	A) 🔲 Umbric Surfa	ce (F13)	(LRR P, 1	ſ, U)	wetland hydrology must be present,				
Sandy N	/lucky Mineral (S1) (I	.RR O, S)	Delta Ochric	(F17) (M	LRA 151)		unle	ss disturbe	d or problemat	ic.	
Sandy C	Bleyed Matrix (S4)		Reduced Ver	tic (F18)	(MLRA 1	50A, 150B))				
Sandy F	Redox (S5)		Piedmont Flo	odplain \$	Soils (F19)	(MLRA 14	49A)				
Stripped	l Matrix (S6)		Anomalous B	right Loa	my Soils	(F20) (MLF	RA 149A, 153C,	153D)			
	rface (S7) (LRR P, S										
Restrictive	Layer (if observed):										
Туре:											
Depth (in	ches):						Hydric Soil F	Present?	Yes 🖌	No	
Remarks:							•				

Dort of Little Dook	City/County: Pulaski County Sampling Date: 2023-03-06					
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-09					
Investigator(s): Jimmy Rogers	_ Section, Township, Range: S27 T1N R11W					
	Local relief (concave, convex, none): Concave Slope (%): 3					
Subregion (LRR or MLRA): P 133B Lat: 34.68						
Soil Map Unit Name: Ko - Keo silt loam, 0 to 1 percent slopes						
Are climatic / hydrologic conditions on the site typical for this time of ye						
	/ disturbed? Are "Normal Circumstances" present? Yes <u>V</u> No					
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes <u>Vegetation</u> No						
Hydric Soil Present? Yes No 🖌	within a Wetland? Yes No					
Wetland Hydrology Present? Yes No _						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)						
Surface Water (A1)						
High Water Table (A2)						
Saturation (A3)	Odor (C1) Moss Trim Lines (B16)					
Water Marks (B1)	neres along Living Roots (C3) Dry-Season Water Table (C2)					
Sediment Deposits (B2)	ced Iron (C4) Crayfish Burrows (C8)					
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)					
Iron Deposits (B5)						
Iron Deposits (B5) Other (Explain in F Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)					
 Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) 						
 Iron Deposits (B5) Other (Explain in F Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations:	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)					
Iron Deposits (B5) Other (Explain in F Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No V Depth (inches	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)					
□ Iron Deposits (B5) □ Other (Explain in F □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _ ✓ Water Table Present? Yes No _ ✓ Depth (inchest	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)					
□ Iron Deposits (B5) □ Other (Explain in F □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _ ✓ Water Table Present? Yes No _ ✓ Depth (inchest Saturation Present? Yes No _ ✓ Depth (inchest Saturation Present? Yes No _ ✓	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)					
□ Iron Deposits (B5) □ Other (Explain in F □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _ ✓ Water Table Present? Yes No _ ✓ Depth (inchest	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) S): S): Wetland Hydrology Present? Yes No					
□ Iron Deposits (B5) □ Other (Explain in F □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _ ✓ Water Table Present? Yes No _ ✓ Depth (inchess Saturation Present? Yes No _ ✓ Depth (inchess Saturation Present? Yes No _ ✓	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) S): S): Wetland Hydrology Present? Yes No					
□ Iron Deposits (B5) □ Other (Explain in F □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _ ✓ Water Table Present? Yes No _ ✓ Depth (inchess Saturation Present? Yes No _ ✓ Depth (inchess Saturation Present? Yes No _ ✓	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) S): S): Wetland Hydrology Present? Yes No					
□ Iron Deposits (B5) □ Other (Explain in F □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _ Depth (inchess Water Table Present? Yes No _ ✓ Depth (inchess Saturation Present? Yes No _ Depth (inchess (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phote Describe Recorded Data (stream gauge, monitoring well, aerial phote	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) S): S): Wetland Hydrology Present? Yes No					
□ Iron Deposits (B5) □ Other (Explain in F □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _ Depth (inchess Water Table Present? Yes No _ ✓ Depth (inchess Saturation Present? Yes No _ Depth (inchess (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phote Describe Recorded Data (stream gauge, monitoring well, aerial phote	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) S): S): Wetland Hydrology Present? Yes No					
□ Iron Deposits (B5) □ Other (Explain in F □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _ Depth (inchess Water Table Present? Yes No _ ✓ Depth (inchess Saturation Present? Yes No _ Depth (inchess (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phote Describe Recorded Data (stream gauge, monitoring well, aerial phote	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) S): S): Wetland Hydrology Present? Yes No					
□ Iron Deposits (B5) □ Other (Explain in F □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No _ Depth (inchess Water Table Present? Yes No _ ✓ Depth (inchess Saturation Present? Yes No _ Depth (inchess (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phote Describe Recorded Data (stream gauge, monitoring well, aerial phote	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) S): S): Wetland Hydrology Present? Yes No					
		Absolute	Dominant	Indicator	Dominance Test worksheet:	
------------------------------------	----------------------------	----------	-----------------------	-----------	--	
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?		Number of Dominant Species	
1. Quercus nigra		20	 ✓ 	FAC	That Are OBL, FACW, or FAC: 5 (A)	
2. Fraxinus pennsylvanica		15	~	FACW	Total Number of Deminent	
_{3.} Ostrya virginiana		15	~	FACU	Total Number of Dominant Species Across All Strata: <u>7</u> (B)	
4					(=)	
5					Percent of Dominant Species That Are OBL_EACW_or_EAC: 71.4 (A/B)	
					That Are OBL, FACW, or FAC: /1.4 (A/B)	
6					Prevalence Index worksheet:	
7					Total % Cover of: Multiply by:	
8					$\begin{array}{c} \hline \hline \\ $	
			Total Cov		FACW species 15 $x 2 = 30$	
50	% of total cover: 25.0	20% of	total cover	10.0		
Sapling/Shrub Stratum (Plot size:	30 ft r)					
_{1.} Ligustrum sinense		10	~	FAC	FACU species 25 x 4 = 100	
2.					UPL species $0 \times 5 = 0$	
					Column Totals: <u>91</u> (A) <u>283</u> (B)	
3						
4					Prevalence Index = $B/A = 3.11$	
5					Hydrophytic Vegetation Indicators:	
6					1 - Rapid Test for Hydrophytic Vegetation	
7					☑ 2 - Dominance Test is >50%	
8					$\boxed{\square}$ 3 - Prevalence Index is $\leq 3.0^1$	
		10% =	= Total Cov	rer	Problematic Hydrophytic Vegetation ¹ (Explain)	
50	% of total cover: 5.0	20% of	total cover	2.0		
Herb Stratum (Plot size: 30 ft r					1	
	/	1	~	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2					Definitions of Four Vegetation Strata:	
3					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or	
4					more in diameter at breast height (DBH), regardless of	
5					height.	
6					Sapling/Shrub – Woody plants, excluding vines, less	
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8						
9.					Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
10					Woody vine – All woody vines greater than 3.28 ft in	
11	<u> </u>				height.	
12						
			Total Cov			
	0% of total cover: 0.5	20% of	total cover	0.2		
Woody Vine Stratum (Plot size: 3	Oftr)					
_{1.} Vitis rotundifolia		20	~	FAC		
2. Lonicera japonica		10	~	FACU		
3.						
4						
5		20%			Hydrophytic	
			Total Cov		Vegetation Present? Yes <u>Ves</u> No	
50	0% of total cover: 15.0	20% of	total cover	6.0		
Remarks: (If observed, list morpho	ological adaptations below	w).				

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the	indicator	or confirm	n the absence of indicators.)	
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	—
0 - 1	7.5YR 2.5/1	100					Silt	
1 - 4	5YR 2.5/2	100					Silt Loam	
4 - 18	7.5YR 4/4	100			_		Silt Loam	
						·		—
-						·		
-								
-								
				<u></u>		·		
1							2	
21	oncentration, D=De					ains.	² Location: PL=Pore Lining, M=Matrix.	
	Indicators: (Appli	cable to all L					Indicators for Problematic Hydric Soils ³ :	
Histosol	. ,		Polyvalue Be					
	pipedon (A2)		Thin Dark Su				2 cm Muck (A10) (LRR S)	ъ,
	stic (A3)		Loamy Muck	-		(U)	Reduced Vertic (F18) (outside MLRA 150A	
	n Sulfide (A4) Layers (A5)		Depleted Ma		(FZ)		Anomalous Bright Loamy Soils (F20)	1)
	Bodies (A6) (LRR I	эт и)	Redox Dark	()	F6)		(MLRA 153B)	
	icky Mineral (A7) (L		Depleted Dark	•	,		Red Parent Material (TF2)	
	esence (A8) (LRR I		Redox Depre		. ,		Very Shallow Dark Surface (TF12)	
	ick (A9) (LRR P, T)		Marl (F10) (L	•	0)		Other (Explain in Remarks)	
	d Below Dark Surfa		Depleted Ocl		(MLRA 1	51)	<u> </u>	
	ark Surface (A12)		Iron-Mangan				T) ³ Indicators of hydrophytic vegetation and	
Coast Pi	rairie Redox (A16) (MLRA 150A)	Umbric Surfa	ice (F13)	(LRR P, 1	, U)	wetland hydrology must be present,	
🔲 Sandy M	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (M	LRA 151)		unless disturbed or problematic.	
Sandy G	Bleyed Matrix (S4)		Reduced Ver	tic (F18)	(MLRA 15	50A, 150B))	
Sandy R	Redox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	49A)	
Stripped	Matrix (S6)		Anomalous E	Bright Loa	my Soils ((F20) (MLR	RA 149A, 153C, 153D)	
Dark Su	rface (S7) (LRR P,	S, T, U)						
Restrictive I	Layer (if observed)	:						
Туре:								
Depth (ind	ches):						Hydric Soil Present? Yes No 🗸	
Remarks:								

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-03-06
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Township	Range: S27 T1N R11W	
Landform (hillslope, terrace, etc.): Drainage Pattern	Local relief (conca	ve convex none). Undulati	ng Slope (%) [.] 2
Subregion (LRR or MLRA): P 133B L			Datum: WGS 84
Soil Map Unit Name: RmC - Rilla silt Ioam, 3 to 5 per		NWI classifica	
Are climatic / hydrologic conditions on the site typical for thi			
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology r	naturally problematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map		nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes V Hydric Soil Present? Yes V Wetland Hydrology Present? Yes V	lo within a W		No
Remarks:			
Drainageway.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
High Water Table (A2) Marl Detail Saturation (A3) Hydrog Water Marks (B1) Oxidize Sediment Deposits (B2) Presend Drift Deposits (B3) Recent Algal Mat or Crust (B4) Thin Mu Iron Deposits (B5) Other (B Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Fauna (B13) posits (B15) (LRR U) en Sulfide Odor (C1) d Rhizospheres along Living R ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (uck Surface (C7) Explain in Remarks)	Drainage Pai Drainage Pai Moss Trim Li Dry-Season Crayfish Burn C6) Geomorphic Shallow Aqu FAC-Neutral	getated Concave Surface (B8) tterns (B10) nes (B16) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) Position (D2) itard (D3)
Field Observations: Surface Water Present? Yes No De	rth (inches), 0, 2		
	pth (inches): <u>0-2</u>		
Saturation Present? Yes No 🖌 De	pth (inches):	Wetland Hydrology Preser	nt? Yes 🖌 No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspec	tions) if available:	
Remarks:			

00 (Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species
1. Acer negundo	10	<u>~</u>	FAC FACW	That Are OBL, FACW, or FAC: <u>6</u> (A)
2. Celtis laevigata	10			Total Number of Dominant
3. Quercus nigra	10	<u> </u>	FAC	Species Across All Strata: <u>7</u> (B)
4. Ulmus americana 5	10	<u> </u>	FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: 85.7 (A/B)
6				Drevelance in dev werkelsest.
7				Prevalence Index worksheet:
8				$\begin{array}{c c} \hline Total \% Cover of: \\ \hline OBL species \\ 0 \\ x 1 = 0 \\ \end{array}$
	40% :	= Total Cov	er	
50% of total cover: 20.0	20% of	total cover	8.0	FACW species $\frac{10}{55}$ x 2 = $\frac{20}{165}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 55 x 3 = 165
1. Ligustrum sinense	20	~	FAC	FACU species 5 $x = 20$
2. Cornus drummondii	5	✓	FAC	
3				Column Totals: <u>70</u> (A) <u>205</u> (B)
4				Prevalence Index = B/A = 2.93
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\Box 3 - Prevalence Index is $\leq 3.0^1$
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>12.5</u>	20% of	total cover	5.0	
Herb Stratum (Plot size: <u>30 ft r</u>)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	:	= Total Cov	er	
50% of total cover:	20% of	total cover		
Woody Vine Stratum (Plot size: 30 ft r)				
1. Lonicera japonica	5	~	FACU	
2				
3				
4				
5.				Hydrophytic
	5% :	= Total Cov	er	Vegetation
50% of total cover: 2.5				Present? Yes <u>V</u> No
Remarks: (If observed, list morphological adaptations belo				

Profile Desc	cription: (Describe	to the dep	oth needed to docu	ment the	indicator	r or confirm	m the absence o	of indicate	ors.)
Depth	Matrix			ox Featur					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			Remarks
0 - 5	10YR 2/2	100					Silty Clay		
5 - 16	10YR 4/2	70	7.5YR 4/3	30	С	М	Silty Clay		
							· ·		
-							·		
-									
¹ Type: $C=C$	oncentration D=Der	letion RM	=Reduced Matrix, M	S=Maske	d Sand G	rains	² Location:	PI =Pore I	ining, M=Matrix.
			LRRs, unless othe			101113.			matic Hydric Soils ³ :
Histosol			Polyvalue Be			IRRST		uck (A9) (l	•
	pipedon (A2)		Thin Dark Su					uck (A10)	
	istic (A3)		Loamy Muck						(18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley	-					ain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		、				Loamy Soils (F20)
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		(F6)			A 153B)	
=	ucky Mineral (A7) (L) 🔲 Depleted Da	rk Surfac	e (F7)			rent Mater	ial (TF2)
Muck Pi	esence (A8) (LRR L	J)	Redox Depr	essions (F8)		Ury Sh	allow Dark	k Surface (TF12)
🔲 1 cm Mı	uck (A9) (LRR P, T)		🔲 Marl (F10) (I	LRR U)			U Other (E	Explain in I	Remarks)
Deplete	d Below Dark Surfac	ce (A11)	Depleted Oc	hric (F11) (MLRA 1	151)			
=	ark Surface (A12)		Iron-Mangar					-	drophytic vegetation and
	rairie Redox (A16) (-	ogy must be present,
	/lucky Mineral (S1) (LRR O, S)						ss disturbe	ed or problematic.
	Bleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Flo					(505)	
=	l Matrix (S6) rface (S7) (LRR P, \$	ст II)	Anomalous I	Bright Loa	amy Soils	(F20) (ML	RA 149A, 153C,	153D)	
	Layer (if observed)								
Type:									
Depth (in	choc):						Hydric Soil F	Procont?	Yes 🖌 No
	cnes).						Hyune Soir P	-iesent?	
Remarks:									

Project/Site: Port of Little Rock	City/County: Pula	iski County	Sampling Date: 2023-03-06
Applicant/Owner: Port of Little Rock		State: Arkansas	
Investigator(s): Jimmy Rogers	Section, Township	o, Range: S27 T1N R11W	
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ive, convex, none): None	Slope (%): 0
Subregion (LRR or MLRA): P 133B	Lat: 34.67955	Long: -92.18302	Datum: WGS 84
Soil Map Unit Name: No - Norwood silty clay loa	m	NWI classifica	_{tion:} none
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site m	ap showing sampling poi	nt locations, transects	, important features, etc.
Hydric Soil Present? Yes	_ No Is the Sam _ No within a W		No
HYDROLOGY Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
High Water Table (A2) Ma Saturation (A3) Hy Water Marks (B1) Ox Sediment Deposits (B2) Predimer Drift Deposits (B3) Red Algal Mat or Crust (B4) Thi Iron Deposits (B5) Oth Water-Stained Leaves (B9) Water (B7)	k all that apply) uatic Fauna (B13) rl Deposits (B15) (LRR U) drogen Sulfide Odor (C1) idized Rhizospheres along Living F esence of Reduced Iron (C4) cent Iron Reduction in Tilled Soils of n Muck Surface (C7) ner (Explain in Remarks)	Coots (C3) Coots (C3) Crayfish Burr Coots (C3) Crayfish Burr Coots (C6) Crayfish Burr Coots Cayfish Burr Coo	yetated Concave Surface (B8) terns (B10) nes (B16) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3)
Water Table Present? Yes No _	_ Depth (inches): _ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland Hydrology Presen tions), if available:	t? Yes No
Remarks:			

	Absolute Dominant Indicato	
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1	<u>% Cover Species?</u> Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2		
3.		 Total Number of Dominant Species Across All Strata: <u>1</u> (B)
4		
5		 Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6		Prevalence Index worksheet:
7		
8		
	= Total Cover	OBL species0 $x = 0$ FACW species0 $x = 0$
50% of total cover:	20% of total cover:	
Sapling/Shrub Stratum (Plot size: 30 ft r)		FAC species $\frac{70}{2}$ x 3 = $\frac{210}{2}$
1		FACU species $\frac{0}{0}$ x 4 = $\frac{0}{0}$
2		UPL species $\frac{0}{70}$ x 5 = $\frac{0}{210}$
3		Column Totals: <u>70</u> (A) <u>210</u> (B)
4		- Prevalence Index = $B/A = 3.0$
5		
6		<u> </u>
7		 – ∠ 2 - Dominance Test is >50%
8		
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size: 15 ft r)		¹ Indicators of hydric soil and wetland hydrology must
1. Ranunculus sardous	70 🖌 FAC	be present, unless disturbed or problematic.
2		_
3		 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of height.
5		-
6		 Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7		-
8 9		 Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10		-
11		 Woody vine – All woody vines greater than 3.28 ft in height.
12.		
	70% = Total Cover	-
50% of total cover: 35.	0 20% of total cover: 14.0	
Woody Vine Stratum (Plot size: 30 ft r)		-
1		-
2		-
3		-
4		-
5		- Hydrophytic
	= Total Cover	Vegetation Present? Yes 🖌 No
	20% of total cover:	_
Remarks: (If observed, list morphological adaptations be	elow).	

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	the absence of	of indicato	ors.)	
Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc 2	Texture		Remarks	<u>;</u>
0 - 4	10YR 4/2	100					Silt Loam			
4 - 18	7.5YR 4/3	100					Silt Loam			
							·			
							·			
-							·			
-										
¹ Type: C=Co	oncentration, D=De	pletion. RM=F	Reduced Matrix. MS	S=Masked	Sand Gr	ains.	² Location:	PL=Pore L	ining, M=Ma	trix.
	ndicators: (Applie								matic Hydrid	
Histosol ((A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S. T. U	J) 1 cm M	uck (A9) (L	RR O)	
	ipedon (A2)		Thin Dark Su					uck (A10)	,	
Black His			Loamy Muck							e MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)		L Piedmo	nt Floodpla	ain Soils (F1	9) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Mat	rix (F3)			L Anomal	lous Bright	Loamy Soils	s (F20)
-	Bodies (A6) (LRR F		Redox Dark S	•			· ·	A 153B)		
	cky Mineral (A7) (L		Depleted Dar		. ,			rent Mater	· ·	
	esence (A8) (LRR I		Redox Depre	•	8)				Surface (TF)	-12)
	ck (A9) (LRR P, T)		Marl (F10) (L				U Other (B	Explain in F	Remarks)	
	Below Dark Surface	ce (A11)					T) ³ Indiac	toro of bur	drophytic veg	notation and
	ırk Surface (A12) airie Redox (A16) (MI PA 150A)	Iron-Mangan		. , .		•	•	ogy must be	
	lucky Mineral (S1)		Delta Ochric			, 0)		-	ed or problem	•
	leyed Matrix (S4)		Reduced Ver			60A. 150B)		33 013101 50		latic.
	edox (S5)		Piedmont Flo							
	Matrix (S6)						A 149A, 153C,	153D)		
Dark Sur	face (S7) (LRR P,	S, T, U)		•		<i>,</i> .				
Restrictive L	ayer (if observed)	:								
Туре:										
Depth (inc	ches):						Hydric Soil I	Present?	Yes	No
Remarks:										

Project/Site: Port of Little Roc	k	City/C	_{county:} Pulaski Count	у	Sampling Date: 2023-03-06
Applicant/Owner: Port of Little					Sampling Point: SP-12
Investigator(s): Jimmy Rogers	i	Sectio	on, Township, Range: S		
Landform (hillslope, terrace, etc.):					Slope (%): 2
Subregion (LRR or MLRA): P 13			-		Datum: WGS 84
Soil Map Unit Name: RmC - Ril				NWI classifica	
Are climatic / hydrologic condition			′es ✓ No		
Are Vegetation, Soil					
Are Vegetation, Soil				explain any answei	
SUMMARY OF FINDINGS					·
		ap showing san			, important leatures, etc.
Hydrophytic Vegetation Present	? Yes	No 🖌	Is the Sampled Area		
Hydric Soil Present?	Yes	No <u> </u>	within a Wetland?	Yes	No 🖌
Wetland Hydrology Present?	Yes	No <u> </u>			
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of	one is required; check	all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	🔲 Aqu	atic Fauna (B13)		Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)	🔲 Mar	Deposits (B15) (LR	R U)	Drainage Pat	
Saturation (A3)	🔲 Hyd	rogen Sulfide Odor (C1)	D Moss Trim Li	nes (B16)
Water Marks (B1)		lized Rhizospheres a	long Living Roots (C3)	Dry-Season \	Nater Table (C2)
Sediment Deposits (B2)	Pres	sence of Reduced Iro	n (C4)	Crayfish Burr	ows (C8)
Drift Deposits (B3)		ent Iron Reduction in	Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	L Thir	Muck Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)		er (Explain in Remark	(S)	Shallow Aqui	tard (D3)
Inundation Visible on Aerial	Imagery (B7)			FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)				Sphagnum m	oss (D8) (LRR T, U)
Field Observations:					
	Yes No				
	Yes No 🖌 Yes No 🖌			lydrology Presen	t?Yes No 🖌
(includes capillary fringe)					
Describe Recorded Data (strear	n gauge, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ailable:	
Demonster					
Remarks:					

20.4		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species	
1. Quercus falcata	50	<u> </u>	FACU	That Are OBL, FACW, or FAC: <u>3</u> (A)	
2	. <u> </u>			Total Number of Dominant	
3	·			Species Across All Strata: <u>6</u> (B)	
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 50 (A/E	3)
6					'
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
		= Total Cov		OBL species 0 x 1 = 0	
50% of total cover: 25.0				FACW species 15 x 2 = 30	
Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>)	20 /0 01			FAC species <u>15</u> x 3 = <u>45</u>	
1. Celtis laevigata	15	~	FACW	FACU species <u>65</u> x 4 = <u>260</u>	
- Liquetrum sinones	10		FAC	UPL species $0 \times 5 = 0$	
- Drunus corotino	10	~	FACU	Column Totals: 95 (A) 335 (B))
3. Prunus serotina					
4				Prevalence Index = $B/A = 3.53$	
5	·			Hydrophytic Vegetation Indicators:	_
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^1$	
	35%	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover: 17.5					
Herb Stratum (Plot size: 30 ft r)				The discovery of the defense it and should be device to encode	
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1				Definitions of Four Vegetation Strata:	
2				Demittions of Four vegetation Strata:	
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) c	
4				more in diameter at breast height (DBH), regardless o	f
5				height.	
6	<u> </u>			Sapling/Shrub – Woody plants, excluding vines, less	
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regardless	3
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine – All woody vines greater than 3.28 ft in	
11				height.	
12.				, , , , , , , , , , , , , , , , , , ,	
		= Total Cov	/er		
50% of total cover:					
Woody Vine Stratum (Plot size: <u>30 ft r</u>)	2070 01				
Lonicera japonica	5	~	FACU		
2 Toxicodendron radicans	5		FAC		
3	·				
4					
5				Hydrophytic	
	<u>10%</u>	= Total Cov	/er	Vegetation	
50% of total cover: 5.0	20% of	total cover	<u>2.0</u>	Present? Yes No V	
Remarks: (If observed, list morphological adaptations belo	ow).				

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the	indicator	or confirm	the absence of ir	ndicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 2	10YR 2/1	100					Silt	
2 - 6	10YR 3/2	100					Silty Clay	
6 - 18	7.5YR 3/4	100				·	Silty Clay	
	//01110/1					·		
-								
-							. <u></u>	
-								
						·		
1		- <u> </u>					21 11 11	
	ncentration, D=Dep ndicators: (Applic					ains.		Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Histosol	. ,		Polyvalue Be					(A9) (LRR O)
Black Hi	oipedon (A2) stic (A3)							(A10) (LRR S) Tertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)			-		(0)		Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma		(1 2)			Bright Loamy Soils (F20)
	Bodies (A6) (LRR F	P. T. U)	Redox Dark	• •	F6)		(MLRA 1	
	cky Mineral (A7) (L		Depleted Da					t Material (TF2)
	esence (A8) (LRR I		Redox Depre		. ,			ow Dark Surface (TF12)
🔲 1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (I	RR U)			Other (Expl	lain in Remarks)
Depleted	Below Dark Surfac	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)	_	
	ark Surface (A12)		Iron-Mangan				•	s of hydrophytic vegetation and
	airie Redox (A16) (—			", U)		hydrology must be present,
	lucky Mineral (S1) (LRR O, S)	Delta Ochric					listurbed or problematic.
	leyed Matrix (S4)		Reduced Ve					
	edox (S5) Matrix (S6)		Piedmont Flo	•	, ,	•	9A) A 149A, 153C, 153	
=	face (S7) (LRR P, 3	ст II)			iny Sons (A 149A, 155C, 155	50)
	_ayer (if observed)							
Type:		•						
							Hydric Soil Pres	
Depth (ind	mes).						Hydric Soli Pres	sent? Yes No 🔽
Remarks:								

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-03-06
Applicant/Owner: Port of Little Rock			nsas Sampling Point: SP-13
Investigator(s): Jimmy Rogers	Section. Township	Range: S27 T1N R11	w
Landform (hillslope, terrace, etc.): Flat		ve. convex. none); Con	cave Slope (%): 1
Subregion (LRR or MLRA): P 133B Lat: 34		·	Datum: WGS 84
Soil Map Unit Name: RmC - Rilla silt Ioam, 3 to 5 percent	slopes		ssification: none
Are climatic / hydrologic conditions on the site typical for this time			
Are Vegetation, Soil, or Hydrology signific			ces" present? Yes <u>^</u> No
Are Vegetation, Soil, or Hydrology signific Are Vegetation, Soil, or Hydrology natural		If needed, explain any a	
SUMMARY OF FINDINGS – Attach site map show			
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes Yes	Is the Sam	bled Area	No
Agricultural field.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary	ndicators (minimum of two required)
Saturation (A3) Hydrogen Sulf Water Marks (B1) Oxidized Rhiz Sediment Deposits (B2) Presence of R	a (B13) (B15) (LRR U) fide Odor (C1) ospheres along Living R teduced Iron (C4) eduction in Tilled Soils (f fface (C7) n in Remarks)	C6) C3) Sparse Drainag Moss T Dry-Sea Cayfisi Geomo Saturat Shallow FAC-Na	e Soil Cracks (B6) ly Vegetated Concave Surface (B8) ge Patterns (B10) rim Lines (B16) ason Water Table (C2) n Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) / Aquitard (D3) eutral Test (D5) num moss (D8) (LRR T, U)
Water Table Present? Yes No 🖌 Depth (in	ches):		
Saturation Present? Yes No <u><</u> Depth (in (includes capillary fringe)	ches):	Wetland Hydrology P	resent? Yes 🖌 No
Remarks:	photos, previous inspect	ions), if available:	

	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species? St		Number of Dominant Species
1				That Are OBL, FACW, or FAC: _0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 0 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>NaN</u> (A/B)
6				Drevelance Index werkelseste
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cover		OBL species $\frac{0}{0}$ $x = \frac{0}{0}$
50% of total cover:	20% of	f total cover:		FACW species $\frac{0}{5}$ x 2 = $\frac{0}{15}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{5}{10}$ x 3 = $\frac{15}{10}$
1				FACU species 10 x 4 = 40
2				UPL species 0 x 5 = 0
3				Column Totals: <u>15</u> (A) <u>55</u> (B)
4				Provolonoo Indox = P/A = 3.67
5				Prevalence Index = B/A = <u>3.67</u>
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
				\square 2 - Dominance Test is >50%
8		= Total Cover		$3 - Prevalence Index is \le 3.0^1$
E00/ of total action				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% 0	total cover.		
<u>Herb Stratum</u> (Plot size: <u>15 ft r</u>) 1. unidentified grass	40	v		¹ Indicators of hydric soil and wetland hydrology must
2. Poa annua	10		ACU	be present, unless disturbed or problematic.
	5			Definitions of Four Vegetation Strata:
3. Ranunculus sardous			AC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	55%	= Total Cover		
50% of total cover: 27.5	20% of	f total cover: <u>1</u>	1.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cover		Vegetation
50% of total cover:				Present? Yes No V
Remarks: (If observed, list morphological adaptations belo				
		-		
Dominant herb unidentified due to tir	ne of y	ear. Rega	ardles	ss of indicator status of this
species, site does not meet criteria f	or clas	sification	as a	wetland.
	-			

Profile Desc	ription: (Describe	to the depth	needed to docum	ent the indica	tor or confirm	n the absence of inc	dicators.)	
Depth	Matrix		Redox	Features				
(inches)	Color (moist)	%			e ¹ Loc ²	Texture	Remark	S
0 - 18	10YR 4/2	100				Silty Clay		
	· · ·							
-								
-								
_								
				·		<u> </u>		
-								
-								
-				<u> </u>				
	oncentration, D=Dep				l Grains.		Pore Lining, M=Ma	
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless other	wise noted.)		Indicators for P	roblematic Hydr	ic Soils ³ :
Histosol	(A1)		Polyvalue Bel	ow Surface (Sa	B) (LRR S, T, U	U) 🔲 1 cm Muck (A9) (LRR O)	
	bipedon (A2)			face (S9) (LRF			A10) (LRR S)	
Black Hi				Mineral (F1) (le MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleyed					19) (LRR P, S, T)
	Layers (A5)		Depleted Mati				Bright Loamy Soil	
	Bodies (A6) (LRR F	о т ну	Redox Dark S	()		(MLRA 15		5 (1 20)
				. ,				
	icky Mineral (A7) (L			<pre>Surface (F7)</pre>			Material (TF2)	E 40)
	esence (A8) (LRR L))	Redox Depres	. ,			v Dark Surface (T	F12)
	ick (A9) (LRR P, T)		Marl (F10) (LI			Uther (Expla	in in Remarks)	
	Below Dark Surfac	ce (A11)		ric (F11) (MLR				
	ark Surface (A12)			ese Masses (F1			of hydrophytic ve	•
	rairie Redox (A16) (ce (F13) (LRR			ydrology must be	
<u> </u>	lucky Mineral (S1) (LRR O, S)		F17) (MLRA 1			sturbed or proble	matic.
Sandy C	Bleyed Matrix (S4)		Reduced Vert	ic (F18) (MLR	A 150A, 150B))		
Sandy R	edox (S5)		Piedmont Floo	odplain Soils (F	19) (MLRA 1 4	49A)		
Stripped	Matrix (S6)		Anomalous B	right Loamy Sc	ils (F20) (MLF	RA 149A, 153C, 153I	D)	
Dark Su	rface (S7) (LRR P, S	S, T, U)						
	_ayer (if observed)							
Type:								
	ahaa);					Hydric Soil Pres	anto Vac	
	ches):					Hydric Soli Pres	ent? Yes	No
Remarks:								

Project/Site: Port of Little Rock	City/County: Pula	aski County	Sampling Date: 2023-03-14
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Townshi		
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ave. convex. none): None	Slope (%): 0
		,	Datum: WGS 84
Soil Map Unit Name: Ko - Keo silt loam, 0 to 1			
Are climatic / hydrologic conditions on the site typica			
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site	map showing sampling po	int locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No 🖌		
Hydric Soil Present? Yes	No 🖌	npled Area	
	No within a W	/etland? Yes	No
Remarks:	L		
Agricultural field.			
HYDROLOGY			
Wetland Hydrology Indicators:			tors (minimum of two required)
Primary Indicators (minimum of one is required; ch		Surface Soil	
	Aquatic Fauna (B13)		getated Concave Surface (B8)
	Marl Deposits (B15) (LRR U)	Drainage Pa	
	Hydrogen Sulfide Odor (C1)	Moss Trim Li	. ,
	Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	Crayfish Bur	Water Table (C2)
	Recent Iron Reduction in Tilled Soils		sible on Aerial Imagery (C9)
	Thin Muck Surface (C7)		Position (D2)
	Other (Explain in Remarks)	Shallow Aqu	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes <u>V</u> No	Depth (inches): 0-1		
	Depth (inches):		
Saturation Present? Yes No _	Depth (inches):	Wetland Hydrology Preser	nt? Yes 🔽 No
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous inspe	tions), if available:	
Remarks:			

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: <u>1</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>50</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8			<u> </u>	$\begin{array}{c} \hline \hline \\ $
		Total Cov		FACW species 50 x 2 = 100
50% of total cover:	20% of	total cover		FAC species $2 \times 3 = 6$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 37 $x = 148$
1				$\begin{array}{c} \text{PACO Species} \underline{0} \\ \text{UPL species} \underline{0} \\ \text{x 5 = } \\ 0 \end{array}$
2				
3				Column Totals: <u>89</u> (A) <u>254</u> (B)
4				Prevalence Index = $B/A = 2.85$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover		
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Alopecurus carolinianus	50	~	FACW	be present, unless disturbed or problematic.
2. Poa annua	30	~	FACU	Definitions of Four Vegetation Strata:
3. Glycine max	10			-
4 Cardamine hirsuta	5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Cerastium arvense	2		FACU	height.
6. Cerastium fontanum	2		FAC	Serling/Shuth Wardy plants evaluating vines loss
7. Lepidium campestre	1			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	100%	= Total Cov		
500 500				
50% of total cover: <u>50.0</u>	20% of	total cover	20.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
	:	= Total Cov	er	Vegetation
50% of total cover:	20% of	total cover		Present? Yes No V
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	n the absence	of indicators.)
Depth	Matrix		Redo	x Features	6			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 18	5YR 5/3	100					Loam	
-								
-								
-								
-								
-								
	oncentration, D=Dep					ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	ndicators: (Applic	able to all L			•		_	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be					luck (A9) (LRR O)
	oipedon (A2)		Thin Dark Su					luck (A10) (LRR S)
Black Hi	· · /		Loamy Mucky			R O)		ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat	. ,				llous Bright Loamy Soils (F20)
-	Bodies (A6) (LRR F		Redox Dark S	•	,			RA 153B)
	cky Mineral (A7) (L		Depleted Dar					arent Material (TF2)
	esence (A8) (LRR L	J)		•	8)			hallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	- (1 1 1)	Marl (F10) (L Depleted Och			F 4\	Uther (Explain in Remarks)
	d Below Dark Surfac ark Surface (A12)	e (ATT)					T) ³ India	ators of hydrophytic vegetation and
	rairie Redox (A16) (MI RA 150A)						and hydrology must be present,
	lucky Mineral (S1) (Delta Ochric			, 0)		ess disturbed or problematic.
	leyed Matrix (S4)		Reduced Ver			0A. 150B)		
	edox (S5)		Piedmont Flo					
	Matrix (S6)						A 149A, 153C,	, 153D)
	rface (S7) (LRR P, S	S, T, U)	—	0	, (<i>,</i> ,		
Restrictive I	ayer (if observed)	:						
Type:								
Depth (ind	ches):						Hydric Soil	Present? Yes No 🖌
Remarks:							,	
rtemanto.								

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02-28
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-15
Investigator(s): Jimmy Rogers	Section, Township, Range: S33 T1N R11W
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): Concave Slope (%): 1
Subregion (LRR or MLRA): P 133B Lat: 34.6	7788 Long: -92.18988 Datum: WGS 84
Soil Map Unit Name: No - Norwood silty clay loam	NWI classification: none
Are climatic / hydrologic conditions on the site typical for this time of y	
	v disturbed? Are "Normal Circumstances" present? Yes <u>//</u> No
Are Vegetation, Soil, or Hydrology naturally p	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes V No Hydric Soil Present? Yes V No Wetland Hydrology Present? Yes V No Remarks: Image: Solution of the second	within a Wetland? Yes V No
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1)	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	5) (LRR U) Drainage Patterns (B10)
Saturation (A3)	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospl	neres along Living Roots (C3) Ury-Season Water Table (C2)
Sediment Deposits (B2)	
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5)	
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 <u>V</u> No Depth (inches	
Water Table Present? Yes <u>V</u> No Depth (inches	
Saturation Present? Yes <u>V</u> No <u>Depth</u> (inchest (includes capillary fringe)	s): 0 Wetland Hydrology Present? Yes Ves No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	

20.4 -	Absolute			Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species
1. Quercus nigra	40	<u> </u>	FAC	That Are OBL, FACW, or FAC: <u>4</u> (A)
2. Populus deltoides	15	<u> </u>	FAC	Total Number of Dominant
3. Celtis laevigata	10		FACW	Species Across All Strata: _4(B)
4. <u>Liquidambar styraciflua</u> 5	5		FAC	Percent of Dominant Species That Are OBL_EACW or EAC: 100 (A/B)
				That Are OBL, FACW, or FAC: 100 (A/B)
6 7				Prevalence Index worksheet:
		·		Total % Cover of: Multiply by:
8	70%	Total Cov		OBL species 0 x 1 = 0
50% of total cover: 35.0				FACW species <u>15</u> x 2 = <u>30</u>
Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>)	20% 01	total cover.	14.0	FAC species <u>65</u> x 3 = <u>195</u>
<u>Saping/Siriub Stratum</u> (Piot size: <u>50 rt i</u>)	5	~	FACW	FACU species 0 x 4 = 0
2. Quercus nigra	5		FAC	UPL species $0 \times 5 = 0$
	<u> </u>			Column Totals: 80 (A) 225 (B)
3				
4				Prevalence Index = $B/A = 2.81$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7		. <u> </u>		2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is ≤3.0 ¹
	<u>10%</u> :	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5.0	20% of	total cover:	2.0	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				The Meedu plants such dias vises 2 in (7.0 cm) as
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov		
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: <u>30 ft r</u>)				
1		<u> </u>		
2				
3				
4				
5				Hydrophytic
	:	= Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes V No
Remarks: (If observed, list morphological adaptations belo	w).			1
	,			

Profile Desc	ription: (Describe	to the dep	th needed to docur	ment the	indicator	or confirm	m the absence of	of indicato	ors.)	
Depth	Matrix			x Featur	es	2				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 2	7.5YR 5/2	100					Silty Clay			
2 - 16	7.5YR 5/2	90	7.5YR 3/4	10	С	М	Silty Clay			
							· ·			<u> </u>
-							· · <u></u> · ·			
-										
							· ·			
							2			
			Reduced Matrix, M			rains.			ining, M=Matri	
-		able to all	LRRs, unless othe						matic Hydric	Solls":
Histosol	. ,		Polyvalue Be					uck (A9) (L		
	bipedon (A2)		Thin Dark Su					uck (A10)		
Black Hi	()		Loamy Muck	-		R 0)				MLRA 150A,B)
	n Sulfide (A4) Layers (A5)		Loamy Gleye		(FZ)				Loamy Soils (F19)	(LRR P, S, T)
	Bodies (A6) (LRR P	о т 10	Depleted Ma		(E6)			A 153B)	Luarity Suis (F20)
	icky Mineral (A7) (L		=		. ,			rent Materi	ial (TE2)	
	esence (A8) (LRR L		Redox Depre						(Surface (TF1	2)
	ick (A9) (LRR P, T)	•)	Marl (F10) (L	•				Explain in F	•	2)
	d Below Dark Surfac	e (A11)	Depleted Oc) (MLRA 1	51)	<u> </u>		(onicanic)	
	ark Surface (A12)	()	Iron-Mangan				, T) ³ Indica	ators of hyd	drophytic vege	tation and
Coast P	rairie Redox (A16) (MLRA 150	A) 🔲 Umbric Surfa	ace (F13)	(LRR P,	T, U)	wetla	and hydrolo	ogy must be p	resent,
Sandy M	lucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (N	ILRA 151)		unle	ss disturbe	ed or problema	ıtic.
Sandy C	Gleyed Matrix (S4)		Reduced Ve	rtic (F18)	(MLRA 1	50A, 150B)			
Sandy F	Redox (S5)		Piedmont Flo	oodplain	Soils (F19) (MLRA 1	49A)			
	Matrix (S6)		Anomalous E	Bright Loa	amy Soils	(F20) (MLF	RA 149A, 153C,	153D)		
	rface (S7) (LRR P, S									
Restrictive I	Layer (if observed)	:								
Туре:										
Depth (in	ches):						Hydric Soil I	Present?	Yes 🖌	No
Remarks:							1			

Project/Site: Port of Little Rock		City/C	ounty: Pula	ski County		Sampling Date: 2023-02-28
Applicant/Owner: Port of Little Rock			-			Sampling Point: SP-16
		Section				<u></u>
Landform (hillslope, terrace, etc.): Flat		Local	relief (conca	ve, convex, n	_{one):} Concave	e Slope (%): 2
Subregion (LRR or MLRA): P 133B						
Soil Map Unit Name: No - Norwood silty	clay loam				NWI classifica	
Are climatic / hydrologic conditions on the site			es 🖌 N	o (li		
Are Vegetation, Soil, or Hydro						
Are Vegetation, Soil, or Hydro					plain any answe	
SUMMARY OF FINDINGS – Attach						·
			-p3 p			, p
Hydrophytic Vegetation Present? Ye	es <u>v</u>	No	Is the Sam	pled Area		
		No No	within a We	etland?	Yes 🔽	No
Wetland Hydrology Present? Ye Remarks:	es <u> </u>	NU				
Agricultural field.						
HYDROLOGY						
Wetland Hydrology Indicators:				S	Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is require	red; check a	II that apply)		[Surface Soil	Cracks (B6)
Surface Water (A1)	Aquat	ic Fauna (B13)		[Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRI			Drainage Pa	
Saturation (A3)		gen Sulfide Odor (Moss Trim Li	
└── Water Marks (B1)		zed Rhizospheres a		loots (C3)		Water Table (C2)
Sediment Deposits (B2)		nce of Reduced Iro	. ,		Crayfish Bur	
Drift Deposits (B3)		nt Iron Reduction in	Tilled Soils (C6) [_	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)		Muck Surface (C7) (Explain in Remark	(6)	L T	Shallow Aqui	Position (D2)
Inundation Visible on Aerial Imagery (B)			(5)	L [FAC-Neutral	
Water-Stained Leaves (B9)	')			ļ	=	noss (D8) (LRR T, U)
Field Observations:				-		
Surface Water Present? Yes 🖌	No C	Depth (inches): <u>3</u>				
Water Table Present? Yes	No 🖌 🛛	Depth (inches):				
	No 🖌 🛛	Depth (inches):		Wetland Hy	drology Preser	nt? Yes 🖌 No
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	nitoring wel	l, aerial photos, pre	vious inspect	ions), if availa	able:	
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 0 (A)	
2				、	
3				Total Number of Dominant Species Across All Strata: 0 (B)	
				Species Across All Strata: 0 (B)	
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: NaN (A/	B)
6				Dravalan oo lu day waxkab oot	
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
		= Total Cov		OBL species <u>10</u> x 1 = <u>10</u>	
50% of total cover:				FACW species 0 x 2 = 0	
	20 % 01			FAC species 0 $x 3 = 0$	
Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>)				FACU species $0 x 4 = 0$	
1				UPL species $0 \times 5 = 0$	
2					
3				Column Totals: <u>10</u> (A) <u>10</u> (E	り
4				Prevalence Index = $B/A = 1.0$	
5					
				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				\checkmark 3 - Prevalence Index is $\leq 3.0^1$	
	:	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover:	20% of	total cover:			
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must	
1. Carex sp.	85	~		be present, unless disturbed or problematic.	
2 Juncus effusus	10		OBL	Definitions of Four Vegetation Strata:	
3 Ranunculus sp.	5			Demittoris of Pour Vegetation Strata.	
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	or
4	. <u> </u>			more in diameter at breast height (DBH), regardless	of
5				height.	
6				Sapling/Shrub – Woody plants, excluding vines, less	3
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8					
				Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.	S
9					
10				Woody vine - All woody vines greater than 3.28 ft in	
11	. <u> </u>			height.	
12					
	100% :	= Total Cov	er		
50% of total cover: 50.0	20% of	total cover:	20.0		
Woody Vine Stratum (Plot size: 30 ft r)					
1					
2					
3	. <u> </u>				
4					
5				Hydrophytic	
		= Total Cov		Vegetation	
50% of total cover:				Present? Yes 🖌 No	
			·		
Remarks: (If observed, list morphological adaptations belo	`				
	w).				
Dominant herb a caric sedge not ide		to spec	ies due	e to time of year; assumed FAC	
Dominant herb a caric sedge not iden	ntified	•		•	
Dominant herb a caric sedge not ider (possibly FACW or OBL); therefore, h	ntified	•		•	
-	ntified	•		•	

Profile Desc	ription: (Describe	to the dept	needed to docur	nent the	indicator	or confirm	the absence	of indicators.)	
Depth	Matrix		Redo	x Feature	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	S
-									
-									
-									
-				<u> </u>					
-									
-									
¹ Type: C=C	oncentration, D=Dep	pletion, RM=F	Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Ma	atrix.
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless othe	rwise no	ted.)		Indicators	for Problematic Hydr	ic Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfa	ace (S8) (L	.RR S, T, U) 🔲 1 cm N	/luck (A9) (LRR O)	
Histic E	pipedon (A2)		Thin Dark Su	urface (SS) (LRR S,	T, U)	2 cm N	/luck (A10) (LRR S)	
Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	L Reduc	ed Vertic (F18) (outsid	e MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Piedm	ont Floodplain Soils (F1	9) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			L Anoma	alous Bright Loamy Soil	s (F20)
	Bodies (A6) (LRR F		Redox Dark	Surface (F6)			RA 153B)	
	ucky Mineral (A7) (L		Depleted Da					arent Material (TF2)	
	esence (A8) (LRR I	J)	Redox Depre		-8)			hallow Dark Surface (T	F12)
	uck (A9) (LRR P, T)		Marl (F10) (L				Other Other	(Explain in Remarks)	
	d Below Dark Surfac	ce (A11)					- 3		
	ark Surface (A12)							cators of hydrophytic ve	-
	rairie Redox (A16) (—			, U)		land hydrology must be	
	Aucky Mineral (S1) (LKK 0, 5)	Delta Ochric			0A 150D)	ume	ess disturbed or probler	nauc.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver				۵۸۱		
	Matrix (S6)						A 149A, 153C	153D)	
	rface (S7) (LRR P, 3	S. T. U)					- 1457, 1550	, 1350)	
	Layer (if observed)								
Type:		-							
· · ·	ches):						Hydric Soil	Present? Yes	No
	cnes).						Hyune Soli		
Remarks:									
No pit d	ug due to ini	undatior	; hydric soil	ls ass	umed.				

Project/Site: Port of Little Rock	City/County: Pulas	ski County	Sampling Date: 2023-02-28			
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-17					
Investigator(s): Jimmy Rogers						
Landform (hillslope, terrace, etc.): Flat	Local relief (concav	re, convex, none): None	Slope (%): 1			
Subregion (LRR or MLRA): P 133B Lat: 3	4.6768	Long: -92.18843	Datum: WGS 84			
Soil Map Unit Name: No - Norwood silty clay loam		NWI classifica				
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes 🖌 N					
Are Vegetation, Soil, or Hydrology signifi						
Are Vegetation, Soil, or Hydrology natura	-	If needed, explain any answer				
SUMMARY OF FINDINGS – Attach site map sho						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Samp within a We		No			
Wetland Hydrology Present? Yes No Remarks:						
Agricultural field						
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is required; check all that a Surface Water (A1) Aquatic Faur High Water Table (A2) Marl Deposite Saturation (A3) Hydrogen Su Water Marks (B1) Oxidized Rhi Sediment Deposits (B2) Presence of Drift Deposits (B3) Recent Iron F Algal Mat or Crust (B4) Thin Muck Su	a (B13) s (B15) (LRR U) Ifide Odor (C1) zospheres along Living R Reduced Iron (C4) Reduction in Tilled Soils ((urface (C7) n in Remarks)	Surface Soil (Sparsely Veg Drainage Pat Moss Trim Lit pots (C3) Dry-Season V Crayfish Burr C6) Saturation Vis Geomorphic Shallow Aqui FAC-Neutral	Cracks (B6) etated Concave Surface (B8) terns (B10) nes (B16) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3)			
Water Table Present? Yes No _ ✓ _ Depth (in Saturation Present? Yes No _ ✓ _ Depth (in (includes capillary fringe)		Wetland Hydrology Presen	t? Yes No			
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspect	ions), if available:				
Remarks:						

20.4		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				
7				Prevalence Index worksheet:
8				<u>Total % Cover of:</u> <u>Multiply by:</u>
	:	= Total Cov	/er	OBL species $\frac{0}{2}$ x 1 = $\frac{0}{2}$
50% of total cover:	20% of	total cover	:	FACW species $\frac{0}{45}$ x 2 = $\frac{0}{125}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 45 x 3 = 135
1				FACU species 19 x 4 = 76
2				UPL species <u>0</u> x 5 = <u>0</u>
3.				Column Totals: <u>64</u> (A) <u>211</u> (B)
4				
				Prevalence Index = $B/A = 3.3$
5 6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^1$
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 20 ft r)	40			¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	40	<u> </u>	FAC	be present, unless disturbed or problematic.
2. unidentifed grass	20	 ✓ 		Definitions of Four Vegetation Strata:
3. Ranunculus sp.	15			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Solidago canadensis	15		FACU	more in diameter at breast height (DBH), regardless of
5. Rumex crispus	5		FAC	height.
6. Cerastium arvense	2		FACU	Sapling/Shrub – Woody plants, excluding vines, less
7. Vicia sativa	2		FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in height.
12.				noight
	99%	= Total Cov	/er	
50% of total cover: 49.5				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)	2070.01			
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes No V
50% of total cover:	20% of	total cover	:	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature	s1			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type	Loc ²	Texture	Remarks
0 - 18	2.5YR 4/3	100		·	· . <u></u>	·	Clay	
-								
-								
-								
				·				
	-			·	·	·		
-				·	·	·	<u> </u>	
-				·	· . <u></u>	·		
	oncentration, D=Dep					ains.		PL=Pore Lining, M=Matrix.
	ndicators: (Applic	able to all Li						for Problematic Hydric Soils ³ :
Histosol (. ,		Polyvalue Be		· / ·			fuck (A9) (LRR O)
Black His	vipedon (A2) stic (A3)		Thin Dark Su					luck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			(0)		ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma					alous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F	-6)		(MLF	RA 153B)
	cky Mineral (A7) (L l		Depleted Dar					arent Material (TF2)
	esence (A8) (LRR L	J)	Redox Depre		8)			hallow Dark Surface (TF12)
	ck (A9) (LRR P, T) I Below Dark Surfac	o (A11)	Marl (F10) (L Depleted Ocl			51)	U Other ((Explain in Remarks)
	irk Surface (A12)						T) ³ Indic	ators of hydrophytic vegetation and
	airie Redox (A16) (MLRA 150A)					•	land hydrology must be present,
	lucky Mineral (S1) (Delta Ochric					ess disturbed or problematic.
Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18) ((MLRA 15	50A, 150B)		
	edox (S5)		Piedmont Flo					
	Matrix (S6)		Anomalous E	Bright Loar	my Soils (F20) (MLR	A 149A, 153C,	, 153D)
	face (S7) (LRR P, S .ayer (if observed)	-					T	
Type:	ayer (il observed)	•						
	:hes):						Hydric Soil	Present? Yes No 🖌
Remarks:							Hyunc Soli	
Remarks.								

Project/Site: Port of Little Rock	City/County: Pula	iski County	Sampling Date: 2023-02-28
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Township		
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ve. convex. none); Concave	Slope (%): 2
		·	Datum: WGS 84
Soil Map Unit Name: Pe - Perry clay, 0 to 1 per	ercent slopes, rarely flooded	NWI classifica	
Are climatic / hydrologic conditions on the site typic		No (If no, explain in Re	
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" p	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology		(If needed, explain any answer	
SUMMARY OF FINDINGS – Attach sit			
Hydric Soil Present? Yes	✓ No Is the Sam ✓ No within a W		No
Agricultural field.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; c 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 (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Thin Muck Surface (C7) Other (Explain in Remarks)	Coots (C3)	yetated Concave Surface (B8) terns (B10) nes (B16) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3)
Field Observations: Surface Water Present? Yes ✓ No	Depth (inches): <u>3</u>		
Water Table Present? Yes No	Depth (inches): Depth (inches):	Wetland Hydrology Presen tions), if available:	t? Yes No
Remarks:			

00 ()		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				
3				Total Number of Dominant Species Across All Strata: 2 (B)
4			·	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species 25 x 1 = 25
		= Total Co		FACW species 0 x 2 = 0
50% of total cover:	20% of	total cove	r:	FAC species $50 \times 3 = 150$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species $0 \times 4 = 0$
1				UPL species $0 \times 5 = 0$
2			·	75 475
3				Column Totals: $\frac{75}{(A)}$ (A) $\frac{175}{(B)}$ (B)
4				Prevalence Index = $B/A = 2.33$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$
	:	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	f total cove	r:	<u> </u>
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Rumex crispus	50	~	FAC	be present, unless disturbed or problematic.
2. Carex sp.	15	~		Definitions of Four Vegetation Strata:
3. Juncus effusus	15	~	OBL	
4 Ludwigia alternifolia	10		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Ranunculus sp.	10		·	height.
6			·	
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				, , , , , , , , , , , , , , , , , , ,
	100%	= Total Co	ver	
50% of total cover: 50.0		f total cove		
Woody Vine Stratum (Plot size: 30 ft r)				
1)				
2				
3				
4			·	
5			·	Hydrophytic Vegetation
		= Total Co		Present? Yes <u>V</u> No
50% of total cover:		total cove	r:	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	cription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	the absence o	f indicato	ors.)	
Depth	Matrix		Redo	x Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
-										
-										
						· ·	<u> </u>			
						<u> </u>				
-										
-										
					·					
							<u> </u>			
-										
	oncentration, D=De					ains.			ining, M=Matri	
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless othe	rwise not	ed.)		Indicators f	or Proble	matic Hydric	Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, U)) 📙 1 cm Mu	uck (A9) (L	.RR O)	
Histic E	pipedon (A2)		Thin Dark Su	ırface (S9) (LRR S,	T, U)	2 cm Mu	uck (A10) ((LRR S)	
	istic (A3)		Loamy Muck	-		l O)				MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)					(LRR P, S, T)
	d Layers (A5)		Depleted Ma					-	Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark	`	,			A 153B)		
	ucky Mineral (A7) (L		Depleted Dai					ent Materi	· · ·	0)
	resence (A8) (LRR I	(ר		•	8)				Surface (TF1	2)
	uck (A9) (LRR P, T)	a (A11)	Marl (F10) (L			E4)	Uther (E	Explain in F	Remarks)	
	d Below Dark Surfac ark Surface (A12)	le (ATT)	Depleted Ocl				r) ³ Indica	tore of hve	Irophytic vege	tation and
	rairie Redox (A16) (MI RA 150A)						-	ogy must be p	
	Aucky Mineral (S1) (Delta Ochric			, 0)		•	d or problema	
	Gleyed Matrix (S4)		Reduced Ver			0A. 150B)	unioc			
	Redox (S5)		Piedmont Flo)A)			
	d Matrix (S6)						, 149A, 153C, [,]	153D)		
	Inface (S7) (LRR P, S	S, T, U)	_	0	,			•		
Restrictive	Layer (if observed)	:								
Туре:										
Depth (in	ches):						Hydric Soil P	Present?	Yes 🖌	No
Remarks:	,						-			
	ua duo to ini	undation	, budria aail		umad					
NO pit d	ug due to ini	unuation	; nyune son	s assi	imea.					

Applicant/Owner: Port of Little Rock State: Arkansas Sampling Point: SP-19 Investigator(s): Jimmy Rogers Section, Township, Range: S33 T1N R11W Some (%): Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): Subregion (LRR or MLRA): P 133B Lat: 34.67592 Long: -92.18894 Datum: W	
Investigator(s): Jimmy Rogers Section, Township, Range: S33 T1N R11W Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%):	l
Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%):	1
Subregion (LRR or MLRA): P 133B Lat: 34.67592 Long: -92.18894 Datum: W	
	3S 84
Soil Map Unit Name: Pe - Perry clay, 0 to 1 percent slopes, rarely flooded NWI classification: none	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? YesNo	
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 feature	s. etc.
Hydrophytic Vegetation Present? Yes <u>Ves</u> No Is the Sampled Area	
Hydric Soil Present? Yes <u>V</u> No within a Wetland? Yes <u>V</u> No	
Wetland Hydrology Present? Yes No Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators: Secondary Indicators (minimum of two requirements)	uired)
Primary Indicators (minimum of one is required; check all that apply)	<u>uncu)</u>
✓ Surface Water (A1) □ Aquatic Fauna (B13) □ Sparsely Vegetated Concave Surface	(B8)
High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10)	、 <i>,</i>
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)	
Water Marks (B1) Qxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2)	
Sediment Deposits (B2)	
Drift Deposits (B3)	29)
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)	
Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Sphagnum moss (D8) (LRR T, U)	
Water-Stained Leaves (B9)	

outuration resount:	100		Deptil (moneo).		methana myaror
(includes capillary fringe)					_
Describe Recorded Data (s	tream gauge, r	monitoring we	ell, aerial photos,	previous inspec	tions), if available:

Remarks:

		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1 Fraxinus pennsylvanica	<u>% Cover</u> 50	Species?	Status FACW	Number of Dominant Species
		~		That Are OBL, FACW, or FAC: <u>3</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>3</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species <u>5</u> x 1 = <u>5</u>
50% of total cover: 25.0				FACW species <u>65</u> x 2 = <u>130</u>
Sapling/Shrub Stratum (Plot size: 30 ft r)			·	FAC species 0 x 3 = 0
1. Fraxinus pennsylvanica	15	~	FACW	FACU species $0 x 4 = 0$
				UPL species $\underline{0}$ x 5 = $\underline{0}$
2				Column Totals: 70 (A) 135 (B)
3				
4				Prevalence Index = $B/A = 1.93$
5				Hydrophytic Vegetation Indicators:
6				✓ 1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				$\overline{\square}$ 3 - Prevalence Index is $\leq 3.0^1$
	15% :	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 7.5	20% of	total cover	3.0	
Herb Stratum (Plot size: 30 ft r)				The discharge of the edgine of the edge of
1. Juncus effusus	5	~	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
2				Demittons of Four Vegetation Strata.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Weedy vine All weedy vince greater than 2.29 ft in
11				Woody vine – All woody vines greater than 3.28 ft in height.
12				
	5%	= Total Cov	/er	
50% of total cover: 2.5				
	20% 01			
Woody Vine Stratum (Plot size: <u>30 ft r</u>)				
1				
2				
3				
4				
5				Hydrophytic
	:	= Total Cov	/er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes 🖌 No
Remarks: (If observed, list morphological adaptations belo				1

Profile Des	cription: (Describe	to the depth	needed to docu	ment the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
-								
-								
-								
_								
-								
	oncentration, D=Dep					ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise no	ted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfa	ace (S8) (L	.RR S, T, U) <u> </u> 1 cm N	/luck (A9) (LRR O)
Histic E	pipedon (A2)		Thin Dark Su	urface (SS) (LRR S,	T, U)	2 cm N	/luck (A10) (LRR S)
Black H	istic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduce	ed Vertic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Piedmo	ont Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Ma	ıtrix (F3)			L Anoma	alous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F6)			RA 153B)
5 cm M	ucky Mineral (A7) (L	RR P, T, U)	Depleted Da	rk Surface	e (F7)			arent Material (TF2)
Muck P	resence (A8) (LRR l	J)	Redox Depre	essions (F	-8)			hallow Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L	_RR U)			Uther ((Explain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc				<u>^</u>	
	ark Surface (A12)		Iron-Mangan					ators of hydrophytic vegetation and
	Prairie Redox (A16) (', U)		land hydrology must be present,
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric				unle	ess disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
	Redox (S5)		Piedmont Flo					
	d Matrix (S6)		Anomalous E	Bright Loa	imy Soils (F20) (MLR	A 149A, 153C,	, 153D)
	urface (S7) (LRR P, S	-					1	
_	Layer (if observed)							
Туре:								
Depth (in	iches):						Hydric Soil	Present? Yes 🥙 No
Remarks:								
No pit d	lug due to ini	undation	: hvdric soi	ls assi	umed.			
			,,					

Project/Site: Port of Little Rock	City	_{/County:} Pulaski County	,	Sampling Date: 2023-02-28
Applicant/Owner: Port of Little Rock	,			Sampling Point: SP-20
	Sec			<u></u>
Landform (hillslope, terrace, etc.): Flat	Loca	al relief (concave, convex, r	_{ione):} Concave	Slope (%): 2
Subregion (LRR or MLRA): P 133B				Datum: WGS 84
Soil Map Unit Name: No - Norwood silty c			NWI classifica	
Are climatic / hydrologic conditions on the site t		Yes No (I		
Are Vegetation, Soil, or Hydrold				
Are Vegetation, Soil, or Hydrold			kplain any answe	
SUMMARY OF FINDINGS – Attach				·
	Site map showing sa			, important leatures, etc.
Hydrophytic Vegetation Present? Yes	s 🖌 No	Is the Sampled Area		
	s <u>v</u> No	within a Wetland?	Yes 🖌	No
Wetland Hydrology Present? Yes Remarks:	s 🖌 No			
Agricultural field.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LI		Drainage Pat	
Saturation (A3)	Hydrogen Sulfide Odor			. ,
U Water Marks (B1)	Presence of Reduced In	along Living Roots (C3)	Crayfish Burr	Water Table (C2)
Drift Deposits (B3)	Recent Iron Reduction	. ,		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7			Position (D2)
Iron Deposits (B5)	Other (Explain in Rema	rks)	Shallow Aqui	tard (D3)
Inundation Visible on Aerial Imagery (B7))		FAC-Neutral	· · ·
Water-Stained Leaves (B9)			Sphagnum m	noss (D8) (LRR T, U)
Field Observations:				
	o Depth (inches): <u>1</u>			
	o Depth (inches): <u>5</u> o Depth (inches): <u>0</u>	Wotland Hy	ydrology Presen	t?Yes ✔ No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mon	hitoring well, aerial photos, p	revious inspections), if avail	able:	
Remarks:				

	Dominant	Indicator	Dominance Test worksheet:
	Species		Number of Dominant Species
			That Are OBL, FACW, or FAC: 0 (A)
			Total Number of Dominant
			Total Number of Dominant Species Across All Strata: 0 (B)
			Percent of Dominant Species That Are OBL_EACW_or_EAC: NaN (A/B)
			That Are OBL, FACW, or FAC: <u>NaN</u> (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
			OBL species <u>5</u> x 1 = <u>5</u>
			FACW species $0 x^2 = 0$
20% o	f total cove	r:	FAC species 30 x 3 = 90
			FACU species 5 x 4 = 20
		·	UPL species $0 \times 5 = 0$
			Column Totals: <u>40</u> (A) <u>115</u> (B)
			Prevalence Index = $B/A = 2.88$
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			\square 2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0 ¹
			Problematic Hydrophytic Vegetation ¹ (Explain)
20% 0	r total cove	r:	
30	~		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
30	~	·	Definitions of Four Vegetation Strata:
15		FAC	
		· · · · · · · · · · · · · · · · · · ·	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
			more in diameter at breast height (DBH), regardless of height.
<u> </u>		ODL	noight
5		EACU	
5		FACU	Sapling/Shrub – Woody plants, excluding vines, less
5			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
5		·	
			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			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.
		·	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
 		·	 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
 			 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
100%	= Total Co		 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
 	= Total Co		 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
 	= Total Co	ver r: 20.0	 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
 	= Total Co	ver 	 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
 	= Total Co f total cove	ver r: 20.0	 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
<u>100%</u> 20% o	Total Co	ver r: 20.0	 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
 	= Total Co f total cove	ver 	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.
<u>100%</u> 20% o	= Total Co f total cove	ver 	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.
 	= Total Co f total cove	ver r: 20.0	 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
 	= Total Co f total cove	ver r: 20.0	 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
<u>100%</u> 20% o	= Total Co f total cove	ver r: 20.0	 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
	= Total Co f total cove	ver r: 20.0	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? Yes <u>Yes</u> No
	= Total Co f total cove	ver r: 20.0	 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
	20% o	= Total Co = Total Co 20% of total cover = Total Co = Total Co = Total Co 20% of total cover = 15 15 15	30 ✓ 15 FAC 15 FAC

Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the	indicator	or confirm	n the absence o	of indicator	′s.)	
Depth	Matrix		Redox	x Feature	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 3	10YR 5/2	100					Clay			
3 - 16	5YR 6/1	75	5YR 4/3	25	С	М	Clay			
-										
-										
						·	·			
						·	<u> </u>			<u></u>
		·				·	<u> </u>			
-							·			
			=Reduced Matrix, MS			ains.			ning, M=Matrix	
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other						natic Hydric S	soils ³ :
Histosol	. ,		Polyvalue Be					uck (A9) (Li		
<u> </u>	pipedon (A2)		Thin Dark Su		, .			uck (A10) (L	•	
	stic (A3)		Loamy Mucky			R O)				ILRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)					(LRR P, S, T)
	d Layers (A5)	- 10	Depleted Mat	. ,					Loamy Soils (F	-20)
	Bodies (A6) (LRR P		Redox Dark S	,	,			A 153B)		
	icky Mineral (A7) (LF esence (A8) (LRR U		Depleted Dar					rent Materia	Surface (TF12	2)
	ick (A9) (LRR D, T)	')	Marl (F10) (L	•	-0)			Explain in R	•	<u>~</u>)
	d Below Dark Surfac	e (A11)	Depleted Och) (MLRA 1	51)			entarks)	
·	ark Surface (A12)	• ()	Iron-Mangane				.T) ³ Indica	ators of hvdr	rophytic veget	ation and
Coast Pi	rairie Redox (A16) (MLRA 150						-	gy must be pr	
Sandy M	lucky Mineral (S1) (I	LRR O, S)	Delta Ochric				unles	ss disturbed	d or problemat	ic.
Sandy G	Bleyed Matrix (S4)		Reduced Ver	tic (F18)	(MLRA 1	50A, 150B))			
	Redox (S5)		Piedmont Flo	•	• • •	•				
	Matrix (S6)		Anomalous B	right Loa	amy Soils ((F20) (MLF	RA 149A, 153C,	153D)		
	rface (S7) (LRR P, S									
	Layer (if observed):									
Туре:			·							
	ches):						Hydric Soil F	Present?	Yes 🖌	No
Remarks:										

Project/Site: Port of Little Rock	City/County: Pulaski County		Sampling Date: 2023-02-28	
Applicant/Owner: Port of Little Rock		State: Arkansas	Sampling Point: SP-21	
Investigator(s): Jimmy Rogers	Section, Township, Range: S33 T1N R11W			
	Local relief (concave, convex, none): Slope (%):		Slope (%): <u>1</u>	
Subregion (LRR or MLRA): P 133B	Lat: 34.67585	Long: -92.1873	Datum: WGS 84	
Soil Map Unit Name: No - Norwood silty clay loam		NWI classifica		
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 Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No <u>v</u>		No	
HYDROLOGY Wetland Hydrology Indicators:			tors (minimum of two required)	
High Water Table (A2) Marl Saturation (A3) Hydr Water Marks (B1) Oxidi Sediment Deposits (B2) Press Drift Deposits (B3) Rece Algal Mat or Crust (B4) Thin Iron Deposits (B5) Othe Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	all that apply) tic Fauna (B13) Deposits (B15) (LRR U) ogen Sulfide Odor (C1) zed Rhizospheres along Living R ence of Reduced Iron (C4) nt Iron Reduction in Tilled Soils (Muck Surface (C7) • (Explain in Remarks)	Drainage Pat Moss Trim Li Ory-Season V Crayfish Burr C6) Geomorphic Shallow Aqui FAC-Neutral	etated Concave Surface (B8) terns (B10) nes (B16) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3)	
Water Table Present? Yes No _	Depth (inches): Depth (inches): Depth (inches): II, aerial photos, previous inspect	Wetland Hydrology Presen	t? Yes No	
Remarks:				
00.6		Dominant		Dominance Test worksheet:
--	---------	-----------------------	--------	---
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2 3				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Co		OBL species $\frac{0}{2}$ x 1 = $\frac{0}{2}$
50% of total cover:	20% of	total cover		FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species <u>40</u> x 3 = <u>120</u>
				FACU species <u>5</u> x 4 = <u>20</u>
1 2				UPL species $0 x 5 = 0$
				Column Totals: <u>45</u> (A) <u>140</u> (B)
3				
4				Prevalence Index = B/A = <u>3.11</u>
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				☑ 2 - Dominance Test is >50%
8				\Box 3 - Prevalence Index is $\leq 3.0^1$
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Ranunculus sp.	40	~		be present, unless disturbed or problematic.
2. Rumex crispus	25	 ✓ 	FAC	Definitions of Four Vegetation Strata:
3. Andropogon virginicus	15		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. unidentified grass	10			more in diameter at breast height (DBH), regardless of
5. Solidago canadensis	5		FACU	height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Here All borbassous (non woody) planta, regardlass
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in height.
12.				neight.
12.	95%	= Total Co		
50% of total cover: 47.5				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)	20% 01		. 10.0	
1				
2				
3				
4				
5				Hydrophytic
	:	= Total Co	/er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes Ves No
Remarks: (If observed, list morphological adaptations belo	w).			
One dominant herb not identified to	enocios	2		
	species			

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	n the absence o	f indicato	ors.)	
Depth	Matrix		Redo	x Features	S					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 18	7.5YR 5/3	100					Clay			
-										
				·						
-				·			<u> </u>			
-										
-										
				·			<u> </u>			
-				·						
	oncentration, D=Dep					ains.			ining, M=Mat	
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless other	wise note	ed.)		Indicators for	or Proble	matic Hydric	Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, L		ıck (A9) (L		
Histic Ep	pipedon (A2)		Thin Dark Su					ıck (A10)		
Black Hi	· · ·		Loamy Muck			R O)				MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		F2)) (LRR P, S, T)
	d Layers (A5)		Depleted Mat	. ,				-	Loamy Soils	(F20)
	Bodies (A6) (LRR F		Redox Dark	•	,		•	A 153B)		
	icky Mineral (A7) (L		Depleted Dar					ent Mater	· /	
	esence (A8) (LRR L	J)		•	8)				Surface (TF	12)
	ick (A9) (LRR P, T)	o (A11)	Marl (F10) (L Depleted Och			E4)	Uther (E	xplain in F	Remarks)	
	d Below Dark Surfac ark Surface (A12)	e (ATT)					T) ³ Indica	tore of hyd	drophytic veg	atation and
	rairie Redox (A16) (MI RA 150A)						-	ogy must be p	
	lucky Mineral (S1) (Delta Ochric			, 0)		•	d or problem	
	Bleyed Matrix (S4)		Reduced Ver			0A. 150B)				
	Redox (S5)		Piedmont Flo							
	Matrix (S6)						A 149A, 153C, ²	153D)		
	rface (S7) (LRR P, S	S, T, U)		0						
Restrictive I	Layer (if observed)	:								
Type:										
	ches):						Hydric Soil P	resent?	Yes	No 🖌
Remarks:							,			
Remarks.										

Project/Site: Port of Little Rock C	ity/County: Pulaski County	Sampling Date: 2023-02-28			
Applicant/Owner: Port of Little Rock	State: Arkansas				
	ection, Township, Range: S34 T1N R11W				
	ocal relief (concave, convex, none): None	Slope (%): 1			
Subregion (LRR or MLRA): P 133B Lat: 34.675	79 Long: -92.18251	Datum: WGS 84			
Soil Map Unit Name: RmC - Rilla silt loam, 3 to 5 percent slope:					
Are climatic / hydrologic conditions on the site typical for this time of year	r?Yes No (If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hydrology significantly d	isturbed? Are "Normal Circumstances" p	resent? Yes <u>/</u> No			
Are Vegetation, Soil, or Hydrology naturally prob					
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes <u></u>	No			
Remarks:					
Planted oak.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indica	tors (minimum of two required)			
Sediment Deposits (B2)	(LRR U) Drainage Pat lor (C1) Moss Trim Li res along Living Roots (C3) Dry-Season V d Iron (C4) Crayfish Burr on in Tilled Soils (C6) Saturation Vi C7) Geomorphic marks) Shallow Aqui Sphagnum m 2 1	terns (B10) nes (B16) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) noss (D8) (LRR T, U)			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:				
Remarks:					

Sampling Point: SP-22

20.4		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species	
1. Quercus nigra	40	<u> </u>	FAC	That Are OBL, FACW, or FAC: 1 (A	A)
2. Quercus phellos	10		FACW	Total Number of Dominant	
3. Celtis laevigata	5		FACW	Species Across All Strata: 1 (E	B)
4 Liquidambar styraciflua	5		FAC	Percent of Dominant Species	
5. Nyssa sylvatica	5		FAC		A/B)
6				Prevalence Index worksheet:	
7					
8				$\begin{array}{c c} \hline Total \% Cover of: \\ \hline OBI species & 0 \\ \hline x 1 = 0 \end{array}$	
	65%	= Total Cov	er		
50% of total cover: <u>32.5</u>	20% of	total cover:	13.0	FACW species $\frac{15}{50}$ x 2 = $\frac{30}{150}$	
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 50 x 3 = 150	
1				FACU species 0 $x 4 = 0$	
2				UPL species 0 $x 5 = 0$	
3				Column Totals: <u>65</u> (A) <u>180</u>	(B)
4				Prevalence Index = $B/A = 2.77$	
5					
6				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				3 - Prevalence Index is ≤3.0 ¹	
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover:	20% of	total cover:			
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology mus	st
1				be present, unless disturbed or problematic.	
2				Definitions of Four Vegetation Strata:	
3	·			Tree – Woody plants, excluding vines, 3 in. (7.6 cm	n) or
4				more in diameter at breast height (DBH), regardless	
5	·			height.	
6				Sapling/Shrub – Woody plants, excluding vines, le	ess
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regardle	ess
9				of size, and woody plants less than 3.28 ft tall.	
10				Weady vine All weady vince greater than 2.29 ft	in
11				Woody vine – All woody vines greater than 3.28 ft height.	
12.				Ŭ	
		= Total Cov	er		
50% of total cover:					
Woody Vine Stratum (Plot size: 30 ft r)					
1)					
2					
3					
4					
5				Hydrophytic	
		= Total Cov		Vegetation Present? Yes <u>V</u> No	
50% of total cover:		total cover:			
Remarks: (If observed, list morphological adaptations belo	ow).				

Profile Desc	cription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confir	rm the absence	of indicato	ors.)	
Depth	Matrix		Redo	x Feature	es		_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 16	5YR 5/1	95	5YR 3/4	5	С	М	Silt			
-										
										<u> </u>
						·				<u> </u>
-						·				
-				<u> </u>						
-										
¹ Type: $C=C$	oncentration D=De	oletion RM	=Reduced Matrix, M	S=Maske	d Sand G	aine	² Location:	PI =Pore I	ining, M=Matri	×
			LRRs, unless other			uiii3.			matic Hydric	
Histosol			Polyvalue Be			RRST		luck (A9) (I	-	
	pipedon (A2)		Thin Dark Su				· –	luck (A10)		
	istic (A3)		Loamy Muck					, ,	• •	/ILRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			,			ain Soils (F19)	
	d Layers (A5)		Depleted Ma		()				Loamy Soils (
	Bodies (A6) (LRR F	P. T. U)	Redox Dark	· · ·	F6)			A 153B)		
	ucky Mineral (A7) (L		=		,			arent Mater	ial (TF2)	
	resence (A8) (LRR I		Redox Depre		• •				k Surface (TF1	2)
	uck (A9) (LRR P, T)		Marl (F10) (L		- /			Explain in I	•	,
	d Below Dark Surfac		Depleted Oc) (MLRA 1	51)	、	•	,	
	ark Surface (A12)		Iron-Mangan				P, T) ³ Indica	ators of hyd	drophytic veget	ation and
Coast P	rairie Redox (A16) (MLRA 150						and hydrol	ogy must be pr	resent,
Sandy N	/lucky Mineral (S1)	LRR O, S)	Delta Ochric				unle	ss disturbe	ed or problema	tic.
	Gleyed Matrix (S4)		Reduced Ver	rtic (F18)	(MLRA 1	50A, 150E	B)			
Sandy F	Redox (S5)		Piedmont Flo	odplain \$	Soils (F19)	(MLRA [·]	149A)			
Stripped	l Matrix (S6)		Anomalous E	Bright Loa	amy Soils ((F20) (ML	RA 149A, 153C,	153D)		
	rface (S7) (LRR P,									
Restrictive	Layer (if observed)):								
Туре:										
Depth (in	ches):						Hydric Soil	Present?	Yes 🔽	No
Remarks:										

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02						
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-23						
	Section, Township						
Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope							
	Lat: 34.67712532						
Soil Map Unit Name: No - Norwood silty clay loan	 	NWI classifica					
Are climatic / hydrologic conditions on the site typical for							
Are Vegetation, Soil, or Hydrology							
Are Vegetation, Soil, or Hydrology		If needed, explain any answe					
SUMMARY OF FINDINGS – Attach site ma			·				
Hydrophytic Vegetation Present? Yes	No Is the Sam	pled Area					
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No within a W	etland? Yes	No 🖌				
Wetland Hydrology Present? Yes Remarks:	NO						
Planted oak.							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is required; check. Surface Water (A1) Aqua High Water Table (A2) Marl Saturation (A3) Hydr Water Marks (B1) Oxid Sediment Deposits (B2) Pres Drift Deposits (B3) Rece Algal Mat or Crust (B4) Thin Inundation Visible on Aerial Imagery (B7) Othe Water-Stained Leaves (B9) Yes Field Observations: Yes No Surface Water Present? Yes No Water Table Present? Yes No	tic Fauna (B13) Deposits (B15) (LRR U) ogen Sulfide Odor (C1) ized Rhizospheres along Living R ence of Reduced Iron (C4) ent Iron Reduction in Tilled Soils (Muck Surface (C7) r (Explain in Remarks) Depth (inches): Depth (inches):	Surface Soil Sparsely Veg Drainage Pai Moss Trim Li coots (C3) Dry-Season Crayfish Burn C6) Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Sphagnum m	Cracks (B6) Jetated Concave Surface (B8) terns (B10) nes (B16) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) loss (D8) (LRR T, U)				
Remarks:							

	Absolute Dominant Indicate	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	<u>% Cover</u> <u>Species?</u> <u>Status</u>	Number of Dominant Species
1. Quercus nigra	<u>70</u> <u>r</u> <u>FAC</u>	That Are OBL, FACW, or FAC: (A)
2. Liquidambar styraciflua	5FAC	Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
5		— That Are OBL, FACW, or FAC: 100 (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of: Multiply by:
	75% = Total Cover	OBL species 0 $x 1 = 0$
50% of total co	over: 37.5 20% of total cover: 15.0	FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r		FAC species 80 x 3 = 240
	<u> </u>	FACU species $0 x 4 = 0$
2		UPL species $0 \times 5 = 0$
		Column Totals: <u>80</u> (A) <u>240</u> (B)
3		- 200
4		
5		
6		
7		—
8		— $\boxed{1}$ 3 - Prevalence Index is ≤3.0 ¹
	5% = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total co	over: 2.5 20% of total cover: 1.0	_
Herb Stratum (Plot size: 30 ft r)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3		
4		 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5		height.
6		
		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7		
8		
9		
10		- Woody vine – All woody vines greater than 3.28 ft in
11		height.
12		_
	= Total Cover	
	over: 20% of total cover:	_
Woody Vine Stratum (Plot size: 30 ft r)	
1		_
2		
3		
4		
5		-
	= Total Cover	Hydrophytic Vegetation
50% of total or		Present? Yes <u>V</u> No
	over: 20% of total cover:	-
Remarks: (If observed, list morphological adap	Ditations below).	
Row planted.		

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	n the absence o	of indicators.)
Depth <u>Matrix Redox Features</u>								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 0.25	7.5YR 4/2	100					Silty Clay	
0.25 - 16	7.5YR 5/2	95	5YR 3/3	5	С	М	Silty Clay	
-								
-		. <u> </u>						
		·		·				
-							<u> </u>	
-								
			=Reduced Matrix, MS			rains.		PL=Pore Lining, M=Matrix.
-		able to all	LRRs, unless other					or Problematic Hydric Soils ³ :
Histosol (Polyvalue Be				· _	uck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					uck (A10) (LRR S)
Black Hi			Loamy Muck	-		R O)		d Vertic (F18) (outside MLRA 150A,B) nt Floodplain Soils (F19) (LRR P, S, T)
	n Sulfide (A4) I Layers (A5)		Loamy Gleye		(FZ)			ous Bright Loamy Soils (F19) (LRK P, S, T)
	Bodies (A6) (LRR P	. T. U)	Redox Dark		F6)			A 153B)
	cky Mineral (A7) (LI		=					rent Material (TF2)
	esence (A8) (LRR U		Redox Depre	essions (F	-8)		U Very Sh	allow Dark Surface (TF12)
	ck (A9) (LRR P, T)		<u> </u>				U Other (E	Explain in Remarks)
	Below Dark Surfac	e (A11)	Depleted Oc					
	ark Surface (A12) rairie Redox (A16) (I		Iron-Mangan Iron-Mangan		• •	• • •		tors of hydrophytic vegetation and and hydrology must be present,
	lucky Mineral (S1) (I		Delta Ochric					ss disturbed or problematic.
	lleyed Matrix (S4)	, 0,	Reduced Ver					
	edox (S5)		Piedmont Flo					
Stripped	Matrix (S6)		Anomalous E	Bright Loa	my Soils	(F20) (MLR	RA 149A, 153C,	153D)
	rface (S7) (LRR P, S	-						
	_ayer (if observed)							
Туре:								
Depth (inc	ches):						Hydric Soil F	Present? Yes 🥙 No
Remarks:								

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02-28
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-24
	Section, Township, Range: S34 T1N R11W
	Local relief (concave, convex, none): Concave Slope (%): 1
Subregion (LRR or MLRA): <u>P 133B</u> Lat: <u>34.6</u>	
Soil Map Unit Name: RmC - Rilla silt loam, 3 to 5 percent slop	
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes V No Hydric Soil Present? Yes V No Wetland Hydrology Present? Yes V No Remarks: V V V V	within a Watland? Yes V No
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B ²)	
Saturation (A3)	
	neres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
Drift Deposits (B3)	ction in Tilled Soils (C6)
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)
Iron Deposits (B5)	
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 <u>V</u> No Depth (inches	
Water Table Present? Yes No V Depth (inches	
Saturation Present? Yes <u>No</u> Depth (inchest (includes capillary fringe)	s): Wetland Hydrology Present? Yes Vo No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	

00 ft a		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species
1. Quercus nigra	20	<u> </u>	FAC	That Are OBL, FACW, or FAC: _6 (A)
2. Quercus phellos	20	 ✓ 	FACW	Total Number of Dominant
3. Nyssa sylvatica	15	~	FAC	Species Across All Strata: <u>6</u> (B)
4				Demont of Deminent Crossies
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
0		= Total Cov		OBL species <u>10</u> x 1 = <u>10</u>
				FACW species 25 x 2 = 50
50% of total cover: <u>27</u>	. <u>.</u> 20% of	total cover	11.0	FAC species 40 x 3 = 120
Sapling/Shrub Stratum (Plot size: 30 ft r)	_			FACU species 0 $x 4 = 0$
1. Fraxinus pennsylvanica	5	 ✓ 	FACW	
2. Quercus nigra	5	✓	FAC	UPL species $\frac{0}{75}$ x 5 = $\frac{0}{100}$
3				Column Totals: <u>75</u> (A) <u>180</u> (B)
4				Prevalence Index = $B/A = 2.40$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is ≤3.0 ¹
	<u>10%</u> :	= Total Cov	rer	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5.0) 20% of	total cover	2.0	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Juncus effusus	10	V	OBL	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
2				Deminions of Four vegetation Strata.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Here All borbassous (non weads) planta recordiase
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	10% :	= Total Cov	rer	
50% of total cover: 5.0) 20% of	total cover	2.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
	:	Total Cov	rer	Vegetation
50% of total cover:	20% of	total cover		Present? Yes V No
Remarks: (If observed, list morphological adaptations b	elow)			
	0.011).			

Profile Descrip	ption: (Describe	to the depth	needed to docum	ent the i	ndicator	or confirm t	he absence	of indicators.)	
Depth	Matrix			Features	8				
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks	3
-									
-									
-									
	contration D-Dar	lation DM-D	aduard Matrix MC	-Maakad	Cand Cr		² Leastion:	PL=Pore Lining, M=Ma	triv
			educed Matrix, MS RRs, unless other			ains.		for Problematic Hydri	
			_			DD C T III		luck (A9) (LRR O)	
Histosol (A			Polyvalue Bel					luck (A10) (LRR S)	
Black Histi			Loamy Mucky					ed Vertic (F18) (outside	MI RA 150A B)
	Sulfide (A4)		Loamy Gleye			,		ont Floodplain Soils (F1	
Stratified L			Depleted Mat		_,			alous Bright Loamy Soils	
	odies (A6) (LRR P	P, T, U)	Redox Dark S	• •	6)			RA 153B)	、
-	xy Mineral (A7) (Ll		Depleted Dar	k Surface	(F7)		Red Pa	arent Material (TF2)	
Muck Pres	ence (A8) (LRR L	J)	Redox Depre	ssions (F8	3)			hallow Dark Surface (TI	=12)
	(A9) (LRR P, T)		Marl (F10) (L				✓ Other ((Explain in Remarks)	
	Below Dark Surfac	æ (A11)	Depleted Och				. 3		
	Surface (A12)		Iron-Mangane				•	ators of hydrophytic veg	
	rie Redox (A16) (I					, U)		land hydrology must be	
	cky Mineral (S1) (I yed Matrix (S4)	LRR 0, 5)	Delta Ochric (0A 150D)	unie	ess disturbed or problen	natic.
Sandy Gle			Piedmont Flo				۵)		
Stripped M			Anomalous B					. 153D)	
	ice (S7) (LRR P, S	S, T, U)) (,	,,	
	yer (if observed)	-							
Type:									
Depth (inche	es):						Hydric Soil	Present? Yes 🗸	Νο
Remarks:	,								
	a duo to ini	Indation	; hydric soil	e 2001	mod				
No pit du	g uue to int	inuation	, fryund son	5 8550	meu.				

Project/Site: Port of Little Rock			City/0	County: Pulas	ski County		Sampling Dat	te: 2023-02-28
Applicant/Owner: Port of Little Rocl	-		ate: Arkansas					
Investigator(s): Jimmy Rogers Section, Township, Range: S34 T1N R11W								
Landform (hillslope, terrace, etc.): Flat			Loca	l relief (concav	e. convex. n	one): None	S	Slope (%): 0
Subregion (LRR or MLRA): P 133B								Datum: WGS 84
Soil Map Unit Name: RmC - Rilla silt						NWI classifica		
Are climatic / hydrologic conditions on t				Yes 🖌 No	c (If			
Are Vegetation, Soil, or						Circumstances" p		✓ No
Are Vegetation, Soil, or						plain any answe		
SUMMARY OF FINDINGS – A								
Hydrophytic Vegetation Present?	Yes 🖌	No						
Hydric Soil Present?	Yes	No 🖌	_	Is the Samp within a We		Yes	No 🕨	/
Wetland Hydrology Present?	Yes	No 🖌		within a we		165	NO	—
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:					5	Secondary Indica	tors (minimum	n of two required)
Primary Indicators (minimum of one is	<u>s required; check</u>	all that app	oly)		[Surface Soil	Cracks (B6)	
Surface Water (A1)		atic Fauna	• •		l			ve Surface (B8)
High Water Table (A2)		I Deposits (L T	Drainage Pat		
Saturation (A3)		rogen Sulfic		(C1) along Living Re	$\frac{1}{2}$	Moss Trim Li	nes (B16) Nater Table (C	~2)
Sediment Deposits (B2)		sence of Re			0013 (00) <u> </u>	Crayfish Burr		52)
Drift Deposits (B3)				n Tilled Soils (0	C6)	- '	, , ,	I Imagery (C9)
Algal Mat or Crust (B4)	🔲 Thir	n Muck Surfa	ace (C7)		[Geomorphic	Position (D2)	
Iron Deposits (B5)	L Oth	er (Explain i	in Remar	ks)]	Shallow Aqui	tard (D3)	
Inundation Visible on Aerial Imag	ery (B7)				ļ	FAC-Neutral	()	
Water-Stained Leaves (B9)						Sphagnum m	noss (D8) (LRF	R T, U)
Field Observations:		Danth (in al	h					
	No 🖌							
	No <u>v</u>				Wotland Uv	drology Presen	+2 Vaa	No 🖌
(includes capillary fringe)					-			
Describe Recorded Data (stream gau	ge, monitoring w	ell, aerial pl	hotos, pre	evious inspecti	ions), if availa	able:		
Remarks:								
Komarko.								

Sampling Point:	SP-25
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	Absolute Dominant Indicato	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover Species?</u> Status	- Number of Dominant Species
_{1.} Quercus nigra	70 🖌 FAC	That Are OBL, FACW, or FAC: (A)
2		
3		 Total Number of Dominant Species Across All Strata: <u>1</u> (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6		Prevalence Index worksheet:
7		
8		
	70% = Total Cover	
50% of total cover: 35	5.0 20% of total cover: 14.0	FACW species 0 $x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)		FAC species 70 x 3 = 210
1,		FACU species $0 x 4 = 0$
		UPL species x 5 =
2		Column Totals: <u>70</u> (A) <u>210</u> (B)
3		-
4		- Prevalence Index = $B/A = 3.00$
5	<u> </u>	Hydrophytic Vegetation Indicators:
6		
7		- 2 - Dominance Test is >50%
8		
	= Total Cover	
E00/ of total approx		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 30 ft r)		¹ Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		_ more in diameter at breast height (DBH), regardless of
5		height.
		— O an line n/Ohmaha - M/a a da mianta - anala dia maina a la sa
6		 Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7		-
8		())]
9		of size, and woody plants less than 3.28 ft tall.
10		- Woody vine – All woody vines greater than 3.28 ft in
11		
12		
	= Total Cover	-
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size: <u>30 ft r</u>)		-
1		-
2		_
3	<u> </u>	_
4		_
5		– Hydrophytic
	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes V No
		-
Remarks: (If observed, list morphological adaptations b	Delow).	
Row planted.		

Depth Matrix Record Features 0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:	Profile Desc	ription: (Describe	to the dept	n needed to docu	ment the in	dicator	or confirm	the absence	of indicato	ors.)	
0 · 0.25 7.5YR 4/4 100 5YR 3/1 Silt 0.25 · 16 5YR 5/4 100 Silt Silt 0.25 · 16 5YR 5/4 100 Silt Silt - - - Silt Silt - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	Depth										
0.25 - 16 5YR 5/4 100 Silt 	(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²			Remarks	
i i	0 - 0.25	7.5YR 4/4	100	5YR 3/1				Silt			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : 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) 2 cm Muck (A10) (LRR S) Hydrogen Sulfide (A4) Doepleted Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F7) Red Parent Material (TF2) Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) No wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A), 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Pied	0.25 - 16	5YR 5/4	100					Silt			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : 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) 2 cm Muck (A10) (LRR S) Hydrogen Sulfide (A4) Doepleted Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F7) Red Parent Material (TF2) Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) No wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A), 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Pied											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : 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) 2 cm Muck (A10) (LRR S) Hydrogen Sulfide (A4) Doepleted Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F7) Red Parent Material (TF2) Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) No wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A), 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Pied											
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Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : 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) 2 cm Muck (A10) (LRR S) Hydrogen Sulfide (A4) Doepleted Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F7) Red Parent Material (TF2) Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) No wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A), 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Pied	-				<u> </u>						
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) 2 cm Muck (A10) (LRR S) Stratified Layers (A5) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (LRR P, S, T) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Anomalous Bright Loamy Soils (F20) 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Depressions (F8) Wetz Surface (TF12) 1 cm Muck (A9) (LRR P, T) Depleted Ochric (F11) (MLRA 151) Red Parent Material (TF2) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) 1 const Yrairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Other (Explain in Remarks) 1 const Yrairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 1 Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 150A, 150B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 1 Sandy Gleyed Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>ains.</td><td></td><td></td><td></td><td></td></t<>							ains.				
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 150A,B) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) S cm Muck (A9) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck (A9) (LRR P, T) Marl (F10) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Inon-Manganese Masses (F12) (LRR O, P, T) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. S andy Mucky Mineral (S1) (LRR O, S) Deleted Ochric (F13) (MLRA 150A, 150B) unless disturbed or problematic. S andy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Reduced Vertic (F18) (MLRA 149A, 153C, 153D) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)	Hydric Soil	Indicators: (Applic	able to all L							-	Soils':
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Redox Depressions (F8) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (TF12) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Deleted Vertic (F18) (MLRA 150A, 150B) vertand hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D)		. ,									
Hydrogen Sulfide (A4) Loamy Gleved Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) 1 cosat Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) anomalous Bright Loamy Soils (F20) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151A) unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) anomalous Bright Loamy Soils (F20) (MLRA 149A) 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: No V Type: Depth (inches): Yes No V		• • •									
Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) other (Explain in Remarks) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) anomalous Bright Loamy Soils (F20) (MLRA 149A) 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: No V Type: Depth (inches): Hydric Soil Present? Yes No		()		=			l O)				
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) S cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Ury Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Coast Prairie Redox (A16) (MLRA 150A) Urbric Surface (F13) (LRR P, T, U) * all dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) unless disturbed or problematic. 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: Muck Soil Present? Yes No V		()		=		2)			•	· · ·	
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 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) unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Type:									-	Loamy Soils (F20)
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) 3Indicators of hydrophytic vegetation and 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) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type:				=		,					
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No						· /					0)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Coast Prairie Redox (A16) (MLRA 0, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR 0, S) Delta Ochric (F17) (MLRA 150A) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type:)		•)				•	2)
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 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) unless disturbed or problematic. Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Type: Hydric Soil Present? Yes No _			o (A11)				54)		Explain in I	Remarks)	
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) nuless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type:			e (ATT)					T) ³ Indica	ators of hyd	Irophytic yeaet	tation and
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) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Yes		()	MI RA 150A			. , .		•			
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) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type:				—			, 0)		-		
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) 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:							0A. 150B)				
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											
□ Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type:		()							153D)		
Type: Depth (inches): Hydric Soil Present? Yes No			6, T, U)		U U		<i>,</i> , ,				
Depth (inches):	Restrictive I	_ayer (if observed):									
Depth (inches):	Type:										
		ches):						Hydric Soil	Present?	Yes	No 🖌
	Remarks.										

Project/Site: Port of Little Rock	_ City/County: Pulaski County	Sampling Date: 2023-02-28					
Applicant/Owner: Port of Little Rock	State: <u>Arkansas</u> Sampling Date: State: <u>Arkansas</u> Sampling Point: <u>SP-26</u>						
	Section, Township, Range: S34 T1N R11W						
Landform (hillslope, terrace, etc.): Depression	_ Local relief (concave, convex, none): Con	Slope (%): 1					
Subregion (LRR or MLRA): P 133B Lat: 34							
Soil Map Unit Name: RmC - Rilla silt loam, 3 to 5 percent s	pesNWI cla:	ssification: none					
Are climatic / hydrologic conditions on the site typical for this time o							
Are Vegetation, Soil, or Hydrology significa							
Are Vegetation, Soil, or Hydrology naturally		·					
SUMMARY OF FINDINGS – Attach site map show							
Hydrophytic Vegetation Present? Yes _ ✓ No Hydric Soil Present? Yes _ ✓ No Wetland Hydrology Present? Yes _ ✓ No	- within a Wetland? Yes	No					
Remarks:	<u> </u>						
Historic man-made pond feature.							
HYDROLOGY							
□ Sediment Deposits (B2) □ Presence of Re □ Drift Deposits (B3) □ Recent Iron Re □ Algal Mat or Crust (B4) □ Thin Muck Surf □ Iron Deposits (B5) □ Other (Explain □ Inundation Visible on Aerial Imagery (B7) ☑ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes ✓ No Depth (includes capillary fringe)	() Surface (313) Sparse 15) (LRR U) Drainag 2 Odor (C1) Moss T 2 odor (C1) Moss T 2 odor (C4) Dry-Se 2 uction in Tilled Soils (C6) Saturat 2 c(C7) Geomo Remarks) Shallow 2 s): 12 Sphagr es): 0 Wetland Hydrology P	Indicators (minimum of two required) e Soil Cracks (B6) ely Vegetated Concave Surface (B8) ge Patterns (B10) Frim Lines (B16) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) num moss (D8) (LRR T, U)					
Describe Recorded Data (stream gauge, monitoring well, aerial p	itos, previous inspections), if available:						
Remarks:							

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	-	Species?		Number of Dominant Species
1. Quercus nigra	20	<u> </u>	FAC	That Are OBL, FACW, or FAC: <u>5</u> (A)
2. Salix nigra	15	~	OBL	Total Number of Dominant
3				Species Across All Strata: <u>5</u> (B)
4				
5				Percent of Dominant Species That Are OBL_EACW_ or EAC: 100 (A/B)
				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species 25 x 1 = 25
		= Total Cov		FACW species $5 \times 2 = 10$
50% of total cover: 17.5	20% of	total cover	<u>7.0</u>	
Sapling/Shrub Stratum (Plot size: 30 ft r)				
1. Fraxinus pennsylvanica	5	~	FACW	FACU species 0 x 4 = 0
2 Quercus nigra	5		FAC	UPL species $0 \times 5 = 0$
		·		Column Totals: <u>55</u> (A) <u>110</u> (B)
3				、 / 、 /
4				Prevalence Index = $B/A = 2.0$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				 ✓ 2 - Dominance Test is >50%
8.				
0		= Total Cov		
500 CL				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5.0	20% of	total cover	2.0	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Juncus effusus	10	 ✓ 	OBL	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or size, and woody plants less than 5.20 it tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	10%	= Total Cov	/er	
50% of total cover: 5.0		total cover		
	20/00		·	
Woody Vine Stratum (Plot size: <u>30 ft r</u>)				
1				
2				
3				
4				
5				
· · · · · · · · · · · · · · · · · · ·				Hydrophytic Vegetation
		= Total Cov		Present? Yes V No
50% of total cover:		total cover	:	
Remarks: (If observed, list morphological adaptations be	ow).			

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	the absence o	f indicato	ors.)		
Depth	Matrix		Redox	k Feature	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rema	arks	
0 - 3	5YR 3/2	100					Silt				
3 - 12	5YR 3/2	70	5YR 4/4	30	С	М	Silt Loam				
	·	·				·					
		·									<u></u>
-					<u> </u>						
-											
¹ T. max. C=C			Deduced Metrix MC	Maaka			² l anotion. F			Matrix	<u> </u>
			=Reduced Matrix, MS LRRs, unless other			ains.	² Location: F Indicators for				
						прети			-	yune e	
Histosol	pipedon (A2)		Polyvalue Be				· –	ıck (A9) (L ıck (A10) (
Black Hi	• • •		Loamy Mucky	•				, ,	• •		ILRA 150A,B)
<u> </u>	n Sulfide (A4)		Loamy Gleye			(0)					(LRR P, S, T)
	Layers (A5)		Depleted Mat		(1 2)			ous Bright			
	Bodies (A6) (LRR P	. T. U)	Redox Dark S	()	F6)			A 153B)	Louiny	50110 (1	20)
	cky Mineral (A7) (LF				,			ent Mater	ial (TF2)		
	esence (A8) (LRR U		Redox Depre					allow Dark	. ,		2)
	ck (A9) (LRR P, T)	,	Marl (F10) (L	•	,			xplain in F		•	,
	Below Dark Surface	e (A11)	Depleted Och	nric (F11)	(MLRA 1	51)					
Thick Da	ark Surface (A12)		Iron-Mangane	ese Mass	ses (F12) (LRR O, P,	T) ³ Indicat	tors of hyd	Irophytic	; veget	ation and
	rairie Redox (A16) (N		A) 🔲 Umbric Surfa	ce (F13)	(LRR P, T	', U)	wetla	nd hydrol	ogy must	t be pr	esent,
	lucky Mineral (S1) (L	.RR O, S)	Delta Ochric					s disturbe	d or pro	blemat	ic.
Sandy G	leyed Matrix (S4)		Reduced Ver								
	edox (S5)		Piedmont Flo	•	, ,	•	•				
	Matrix (S6)		Anomalous B	right Loa	my Soils (F20) (MLR	A 149A, 153C, 1	153D)			
	face (S7) (LRR P, S						1				
Restrictive I	_ayer (if observed):										
Туре:											
Depth (ind	ches):						Hydric Soil P	resent?	Yes	~	No
Remarks:											

Project/Site: Port of Little Rock		City/C	_{ounty:} Pulaski Cou	nty	Sampling Date: 2023-03-06	
Applicant/Owner: Port of Little Roc	ĸ				Sampling Point: SP-27	
Investigator(s): Jimmy Rogers		Sectio	on, Township, Range:	S34 T1N R11W		
Landform (hillslope, terrace, etc.): Flat		Local	relief (concave, conve	ex, none): None	Slope (%): <u>1</u>	
Subregion (LRR or MLRA): P 133B		Lat: 34.67317	Long:	-92.186	Datum: WGS 84	
Soil Map Unit Name: <u>No - Norwood</u>	silty clay loam			NWI classifica	_{tion:} none	
Are climatic / hydrologic conditions on	he site typical for th	his time of year? Y				
Are Vegetation, Soil, or	Hydrology	significantly distur	oed? Are "Norr	nal Circumstances" p	resent? Yes No 🖌	
Are Vegetation, Soil, or	Hydrology	naturally problema	itic? (If neede	d, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - A	ttach site mar	o showing sam	pling point loca	tions, transects	, important features, etc.	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ ✓ Yes Yes _ ✓	No 🖌	Is the Sampled Are within a Wetland?		No	
Remarks:						
Planted trees.						
HYDROLOGY						
Wetland Hydrology Indicators:					tors (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply) Image: Surface Water (A1) Image: Aquatic Fauna (B13) Water Water (A1) Image: Aquatic Fauna (B13) Image: Sparsely Vegetated Concave Surface Solit Cracks (B6) Water Table (A2) Image: Marl Deposits (B15) (LRR U) Image: Drainage Patterns (B10) Water Marks (B1) Image: Oxidized Rhizospheres along Living Roots (C3) Image: Dry-Season Water Table (C2) Sediment Deposits (B2) Image: Presence of Reduced Iron (C4) Image: Dry-Season Water Table (C2) Drift Deposits (B3) Image: Recent Iron Reduction in Tilled Soils (C6) Image: Saturation Visible on Aerial Image: Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Image: Other (Explain in Remarks) Image: Saturation Visible on Aerial Test (D5)						
Water-Stained Leaves (B9) Field Observations:					noss (D8) (LRR T, U)	
Water Table Present? Yes	No D No D No D No D ge, monitoring well	repth (inches): <u>1</u> repth (inches): <u>0</u>		d Hydrology Presen available:	t? Yes _ ✔ _ No	
Remarks:						

20.41		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species
1. Taxodium distichum	40	<u>~</u>	OBL	That Are OBL, FACW, or FAC: <u>5</u> (A)
2. Liquidambar styraciflua	<u>15</u>	~	FAC	Total Number of Dominant
3. Fraxinus pennsylvanica	5		FACW	Species Across All Strata: <u>5</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
	60% :	= Total Cov	er	OBL species $\frac{40}{10}$ x 1 = $\frac{40}{20}$
50% of total cover: <u>30.0</u>	20% of	total cover:	12.0	FACW species $\frac{10}{25}$ x 2 = $\frac{20}{75}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{25}{2}$ x 3 = $\frac{75}{2}$
1. Fraxinus pennsylvanica	5	~	FACW	FACU species 0 $x 4 = 0$
2. Liquidambar styraciflua	5	~	FAC	UPL species <u>0</u> x 5 = <u>0</u>
3				Column Totals: <u>75</u> (A) <u>135</u> (B)
4				Development la development 180
5				Prevalence Index = $B/A = 1.80$
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	10%			\square 3 - Prevalence Index is $\leq 3.0^1$
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>5.0</u>	20% of	total cover:	2.0	
Herb Stratum (Plot size: <u>30 ft r</u>)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Hark All barbassaus (non woody) planta, regardlass
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
				Woody vine – All woody vines greater than 3.28 ft in
				height.
12				
		= Total Cov		
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)	-	,	F AO	
1. Toxicodendron radicans	5	<u> </u>	FAC	
2				
3				
4				
5				Hydrophytic
	5% :	= Total Cov	er	Vegetation
50% of total cover: 2.5	20% of	total cover:	1.0	Present? Yes <u>V</u> No
Remarks: (If observed, list morphological adaptations belo	w).			1
······································				

Profile Desc	ription: (Describe	to the dept	n needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 2	7.5YR 5/3	100					Silty Clay	
2 - 18	7.5YR 4/3	100				PL	Clay	
						·		
-						·		
-								
				·				
						. <u> </u>		
	oncentration, D=Dep					ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	ndicators: (Applic	able to all L	RRs, unless othe	rwise not	ed.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (I	.RR S, T, U	J) 🔲 1 cm N	/luck (A9) (LRR O)
Histic Ep	pipedon (A2)		Thin Dark Su	Irface (S9)) (LRR S,	T, U)	2 cm N	/luck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	L Reduc	ed Vertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodplain Soils (F19) (LRR P, S, T)
Stratified	I Layers (A5)		Depleted Ma	trix (F3)				alous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)		(MLF	RA 153B)
🔲 5 cm Mu	cky Mineral (A7) (L	RR P, T, U)	Depleted Da	rk Surface	(F7)		L Red Pa	arent Material (TF2)
Muck Pr	esence (A8) (LRR l	J)	Redox Depre	essions (F	8)		U Very S	hallow Dark Surface (TF12)
🔲 1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other	(Explain in Remarks)
Depleted	Below Dark Surfac	e (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	T) ³ Indic	ators of hydrophytic vegetation and
Coast Pi	airie Redox (A16) (MLRA 150A)	Umbric Surfa	ice (F13)	(LRR P, 1	', U)	wet	land hydrology must be present,
Sandy M	lucky Mineral (S1) (LRR O, S)	Delta Ochric					ess disturbed or problematic.
Sandy G	ileyed Matrix (S4)		Reduced Ver	rtic (F18) (MLRA 15	60A, 150B)		
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)	
	Matrix (S6)		Anomalous E	Bright Loar	ny Soils (F20) (MLR	A 149A, 153C	, 153D)
	face (S7) (LRR P, S							
Restrictive I	.ayer (if observed)	:						
Туре:								
Depth (ind	ches):						Hydric Soil	Present? Yes No 🖌
Remarks:							-	

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02-21						
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-28						
Investigator(s): Jimmy Rogers	Section, Township, Range: S33 T1N R11W						
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 1						
Subregion (LRR or MLRA): P 133B Lat: 34.6							
Soil Map Unit Name: No - Norwood silty clay loam	NWI classification: PF01C						
Are climatic / hydrologic conditions on the site typical for this time of y							
	y disturbed? Are "Normal Circumstances" present? YesNo						
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes V No Hydric Soil Present? Yes V No Wetland Hydrology Present? Yes V No Remarks: Image: Solution of the second	within a Wetland? Yes V No						
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2)	13) Sparsely Vegetated Concave Surface (B8)						
Sediment Deposits (B2)	heres along Living Roots (C3) Dry-Season Water Table (C2) ced Iron (C4) Crayfish Burrows (C8) ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) e (C7) Geomorphic Position (D2)						
Field Observations:							
Surface Water Present? Yes <u>V</u> No Depth (inches							
Water Table Present? Yes No Ves Depth (inches							
Saturation Present? Yes <u>No</u> Depth (inchest (includes capillary fringe)	s): Wetland Hydrology Present? Yes <u>V</u> No						
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:						
Remarks:							

00 /	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species
1. Celtis laevigata	10	<u> </u>	FACW	That Are OBL, FACW, or FAC: <u>3</u> (A)
2. Populus deltoides	10	 ✓ 	FAC	Total Number of Dominant
3. Quercus nigra	5		FAC	Species Across All Strata: <u>3</u> (B)
4. Salix nigra	5		OBL	Demonstrat Demonstration
5. Ulmus americana	5		FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				$\begin{array}{c c c c c c c c c c c c c c c c c c c $
	35% :	= Total Cov	er	
50% of total cover: <u>17.5</u>	20% of	total cover:	7.0	FACW species 10 x 2 = 20 FAC species 20 x 3 = 60
Sapling/Shrub Stratum (Plot size: 30 ft r)				
1				FACU species $\frac{0}{2}$ x 4 = $\frac{0}{2}$
2				UPL species $\frac{0}{45}$ x 5 = $\frac{0}{55}$
3				Column Totals: <u>45</u> (A) <u>95</u> (B)
4				Prevalence Index = B/A = 2.11
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover:		
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Lemna minor	10	~	OBL	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3.				_
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov		
50% of total cover: 5.0	20% of	total cover:	2.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Underschutzie
		= Total Cov		Hydrophytic Vegetation
50% of total cover:				Present? Yes V No
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Descri	ption: (Describe	to the depth	needed to docum	ent the i	ndicator	or confirm t	the absence	of indicators.))		
Depth Matrix Redox Features											
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	I	Remarks		
-											
						<u> </u>					
-											
-											
							2				
			educed Matrix, MS			ains.		PL=Pore Lining	•		
		able to all LH	Rs, unless other					for Problemat	•	iolis":	
Histosol (A			Polyvalue Bel					luck (A9) (LRR			
Histic Epip			Thin Dark Su					luck (A10) (LRI			
Black Histi	()		Loamy Mucky			(0)		ed Vertic (F18)			
	Sulfide (A4)		Loamy Gleye		-2)			ont Floodplain S			
	.ayers (A5) odies (A6) (LRR P	.T IN	Depleted Mat	• •	6)			lous Bright Loa RA 153B)	arriy Solis (r	-20)	
-	y Mineral (A7) (LRR P		Depleted Dark	```	,			arent Material (
	sence (A8) (LRR L		Redox Depre					hallow Dark Su		2)	
	(A9) (LRR P, T)	')	Marl (F10) (L	•)			Explain in Rem		-)	
	Below Dark Surfac	e (A11)	Depleted Och		(MLRA 1	51)			iunic)		
= .	Surface (A12)	()	Iron-Mangane) ³ Indica	ators of hydrop	hytic veget	ation and	
	rie Redox (A16) (I	MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	, U)	wetl	and hydrology	must be pr	esent,	
Sandy Mu	cky Mineral (S1) (LRR O, S)	Delta Ochric	F17) (ML	RA 151)		unle	ess disturbed or	r problemat	ic.	
Sandy Gle	yed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 15	0A, 150B)					
Sandy Red	dox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 149	A)				
Stripped N	latrix (S6)		Anomalous B	right Loar	ny Soils (F20) (MLRA	149A, 153C,	153D)			
	ace (S7) (LRR P, S	-									
Restrictive La	yer (if observed)	:									
Туре:			_								
Depth (inch	es):						Hydric Soil	Present? Ye	es 🖌	No	
Remarks:											
No pit du	a due to inu	undation	; hydric soil	s assu	med.						
	9 4 4 6 1 6 1 1 6										

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-02-28	
Applicant/Owner: Port of Little Rock		State: Arkansas	Sampling Point: SP-29	
Investigator(s): Jimmy Rogers	Section, Township	, _{Range:} S33 T1N R11W		
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ve, convex, none): Concave	Slope (%): 2	
Subregion (LRR or MLRA): P133B Lat: 34			Datum: WGS 84	
Soil Map Unit Name: No - Norwood silty clay loam		NWI classifica		
Are climatic / hydrologic conditions on the site typical for this time c	of year? Yes 🖌 N			
Are Vegetation, Soil, or Hydrology significa				
Are Vegetation, Soil, or Hydrology naturally		If needed, explain any answe		
SUMMARY OF FINDINGS – Attach site map show				
Hydrophytic Vegetation Present? Yes ✔ No Hydric Soil Present? Yes ✔ No Wetland Hydrology Present? Yes ✔ No Remarks:	within a W		No	
Agricultural field, flooded forest edge.				
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is required; check all that approved is sequired; check all that approved is sequered in the sequence of the seq	C6) Capton Control Con	etated Concave Surface (B8) terns (B10) nes (B16) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3)		
Water Table Present? Yes No Depth (inc				
Saturation Present? Yes No Ves Depth (inc (includes capillary fringe)	hes):	Wetland Hydrology Presen	t? Yes 🧭 No	
(includes capillary inlige) Describe Recorded Data (stream gauge, monitoring well, aerial p Remarks:	hotos, previous inspect	ions), if available:		

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 0 (B)
4				Demonstrat Demoissant Operation
5				Percent of Dominant Species That Are OBL, FACW, or FAC: NaN (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov		OBL species $\frac{15}{15}$ x 1 = $\frac{15}{15}$
50% of total cover:	20% of	total cover:		FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 0 x 3 = 0
1,				FACU species $0 x 4 = 0$
2				UPL species $0 x 5 = 0$
				Column Totals: <u>15</u> (A) <u>15</u> (B)
3				
4				Prevalence Index = $B/A = \frac{1.0}{1.0}$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\checkmark 3 - Prevalence Index is $\leq 3.0^1$
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover:		
Herb Stratum (Plot size: <u>15 ft r</u>)	05			¹ Indicators of hydric soil and wetland hydrology must
1. Carex sp.	85 5	<u> </u>		be present, unless disturbed or problematic.
2. Eleocharis obtusa		·	OBL	Definitions of Four Vegetation Strata:
3. Juncus effusus	5		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Ludwigia alternifolia	5		OBL	more in diameter at breast height (DBH), regardless of
_{5.} Ranunculus sp.	1			height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov	er	
50% of total cover: 50.5				
Woody Vine Stratum (Plot size: 30 ft r				
1				
2				
3.				
4				
5		= Total Cov		Hydrophytic Vegetation
				Present? Yes <u>V</u> No
50% of total cover:		total cover:		
Remarks: (If observed, list morphological adaptations belo	w).			
Dominant herb a caric sedge not ide	ntified	to spec	ies due	e to time of year; assumed FAC
(possibly FACW or OBL); hydrophyti		•		
	c veye	ationa	JJUINE	

Profile Descrip	ption: (Describe	to the depth	needed to docum	ent the i	ndicator	or confirm t	he absence	of indicators.)	
Depth	Matrix								
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks	3
-									
-									
-									
	contration D-Dar	lation DM-D	aduard Matrix MC	-Maakad	Cand Cr		² Leastion:	PL=Pore Lining, M=Ma	triv
			educed Matrix, MS RRs, unless other			ains.		for Problematic Hydri	
			_			DD C T III		luck (A9) (LRR O)	
Histosol (A			Polyvalue Bel					luck (A10) (LRR S)	
Black Histi			Loamy Mucky					ed Vertic (F18) (outside	MI RA 150A B)
	Sulfide (A4)		Loamy Gleye			,		ont Floodplain Soils (F1	
Stratified L			Depleted Mat		_,			alous Bright Loamy Soils	
	odies (A6) (LRR P	P, T, U)	Redox Dark S	• •	6)			RA 153B)	、
-	xy Mineral (A7) (Ll		Depleted Dar	k Surface	(F7)		Red Pa	arent Material (TF2)	
Muck Pres	ence (A8) (LRR L	J)	Redox Depre	ssions (F8	3)			hallow Dark Surface (TI	=12)
	(A9) (LRR P, T)		Marl (F10) (L				✓ Other ((Explain in Remarks)	
	Below Dark Surfac	æ (A11)	Depleted Och				. 3		
	Surface (A12)		Iron-Mangane				•	ators of hydrophytic veg	
	rie Redox (A16) (I					, U)		land hydrology must be	
	cky Mineral (S1) (I yed Matrix (S4)	LRR 0, 5)	Delta Ochric (0A 150D)	unie	ess disturbed or problen	natic.
Sandy Gle			Piedmont Flo				۵)		
Stripped M			Anomalous B					. 153D)	
	ice (S7) (LRR P, \$	S, T, U)) (,	,,	
	yer (if observed)	-							
Type:									
Depth (inche	es):						Hydric Soil	Present? Yes 🗸	No
Remarks:	,								
	a duo to ini	Indation	; hydric soil	e 2001	mod				
No pit du	g uue to int	inuation	, fryund som	5 8550	meu.				

Arkansas Sampling Point: SP-30 N R11W Slope (%): 8401 Datum: WGS 84 VI classification: none explain in Remarks.) nstances" present? Yes No any answers in Remarks.) ransects, important features, etc. Yes No
Slope (%): B401 Datum: WGS 84 VI classification: explain in Remarks.) mstances" present? YesNo any answers in Remarks.) ransects, important features, etc.
Slope (%): B401 Datum: WGS 84 VI classification: explain in Remarks.) mstances" present? YesNo any answers in Remarks.) ransects, important features, etc.
B401 Datum: WGS 84 VI classification: explain in Remarks.) mstances" present? YesNo any answers in Remarks.) ransects, important features, etc.
VI classification: <u>none</u> explain in Remarks.) nstances" present? Yes <u>✓</u> No any answers in Remarks.) ransects, important features, etc.
nstances" present? Yes <u>Y</u> No No any answers in Remarks.)
any answers in Remarks.) ransects, important features, etc.
ransects, important features, etc.
Yes No
ndary Indicators (minimum of two required)
urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) rainage Patterns (B10) loss Trim Lines (B16) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) teomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) phagnum moss (D8) (LRR T, U)
ogy Present? Yes _ ✔ No
7.

		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2 3				Total Number of Dominant Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6 7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Co	ver	OBL species 0 x 1 = 0
50% of total cover:				FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)			- <u> </u>	FAC species 50 x 3 = 150
1				FACU species $10 x 4 = 40$
				UPL species $0 x 5 = 0$
2				Column Totals: <u>60</u> (A) <u>190</u> (B)
3 4				Prevalence Index = $B/A = 3.17$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				\checkmark 2 - Dominance Test is >50%
8				3 - Prevalence Index is $\leq 3.0^{1}$
		= Total Co		
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 15 ft r)				
Andropogon virginicus	40	V	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Carex sp.	30	~	<u></u>	Definitions of Four Vegetation Strata:
3. Solidago canadensis	10		FACU	Demittoris of Four Vegetation Strata.
Juncus tenuis	5		FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
	5		FAC	more in diameter at breast height (DBH), regardless of height.
5. Ranunculus sp.	5			noight.
6. Rumex crispus 7			FAC	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10	·	·		Woody vine – All woody vines greater than 3.28 ft in
11	·			height.
12	95%	= Total Co		
500/ statel second 17 5				
50% of total cover: 47.5 Woody Vine Stratum (Plot size: 30 ft r)	20% of	total cover	<u>19.0</u>	
1				
2				
3				
4				
5				Hadaaa ka da
···		= Total Co		Hydrophytic Vegetation
50% of total cover:				Present? Yes <u>V</u> No
Remarks: (If observed, list morphological adaptations belo				1
	,			
1				

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	the absence of	of indicators.)
Depth (inches)	Matrix	%		ox Feature		Loc ²	Tauduma	Demedia
<u>(inches)</u> 0 - 18	Color (moist) 5YR 4/2	<u>%</u> 100	Color (moist)	%	Type ¹	LOC	<u>Texture</u> Clay	Remarks
0 10	JTR 4/2	100				·	Ciay	
-						·		
-								
-								
-								
-								
-							· ·	
¹ Type: C=Co	oncentration, D=Dep	letion RM=F	Reduced Matrix M	IS=Masker	Sand Gr	ains	² Location:	PL=Pore Lining, M=Matrix.
	Indicators: (Applic							for Problematic Hydric Soils ³ :
Histosol ((A1)		Polyvalue B	elow Surfa	ce (S8) (I	RR S, T, U	J) 1 cm M	uck (A9) (LRR O)
Histic Ep	oipedon (A2)		Thin Dark S	urface (S9)) (LRR S,	T, U)		uck (A10) (LRR S)
Black Hi			Loamy Muc	-		R O)		ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gley		F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	l Layers (A5) Bodies (A6) (LRR P	. T IN	Depleted M Redox Dark		6)			lous Bright Loamy Soils (F20)
	icky Mineral (A7) (L				,			A 153B) rent Material (TF2)
	esence (A8) (LRR L		Redox Depi		` '			nallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	,	Marl (F10) (,			Explain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted O					
	ark Surface (A12)		Iron-Manga		• •	•		ators of hydrophytic vegetation and
	rairie Redox (A16) (", U)		and hydrology must be present,
	lucky Mineral (S1) (ileyed Matrix (S4)	LRR 0, 5)	Delta Ochrie			50A 150B)		ss disturbed or problematic.
	edox (S5)		Piedmont F					
	Matrix (S6)						A 149A, 153C,	153D)
	rface (S7) (LRR P, S	S, T, U)		•	-			
Restrictive L	_ayer (if observed)							
Туре:								
Depth (inc	ches):						Hydric Soil I	Present? Yes No 🖌
Remarks:								

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02-28					
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-31					
	Section, Township, Range: S33 T1N R11W					
	Local relief (concave, convex, none): Concave Slope (%): 2					
	7228 Long: -92.19062 Datum: WGS 84					
Soil Map Unit Name: Me - Moreland silty clay	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of ye						
	/ disturbed? Are "Normal Circumstances" present? YesNo					
Are Vegetation, Soil, or Hydrology naturally pr						
	g sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes <u>Ves</u> No						
Hydric Soil Present? Yes <u>✓</u> No						
Wetland Hydrology Present? Yes <u>V</u> No <u>No</u>						
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)					
Surface Water (A1)						
High Water Table (A2)						
Saturation (A3)						
Water Marks (B1) Oxidized Rhizosph	neres along Living Roots (C3) 🔲 Dry-Season Water Table (C2)					
Sediment Deposits (B2)	ced Iron (C4) Crayfish Burrows (C8)					
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)						
Iron Deposits (B5)						
Inundation Visible on Aerial Imagery (B7) V Water-Stained Leaves (B9)	 ✓ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U) 					
Field Observations:						
Surface Water Present? Yes <u></u> No <u>Depth</u> (inches	s): 6					
Water Table Present? Yes No Depth (inches						
Saturation Present? Yes No Depth (inches						
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), ir available:					
Remarks:						
Nemans.						

00 ()		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species
1. Fraxinus pennsylvanica	10	<u> </u>	FACW	That Are OBL, FACW, or FAC: <u>8</u> (A)
2. Celtis laevigata	5	<u> </u>	FACW	Total Number of Dominant
3. Populus deltoides	5	<u> </u>	FAC	Species Across All Strata: 8 (B)
4. Quercus nigra	5	 	FAC	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
	25%	Total Cov	er	OBL species $\frac{15}{30}$ x 1 = $\frac{15}{60}$
50% of total cover: <u>12.5</u>	20% of	total cover:	5.0	FACW species 30 $x_2 = 60$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{15}{2}$ x 3 = $\frac{45}{2}$
1. Fraxinus pennsylvanica	10	~	FACW	FACU species 0 $x 4 = 0$
2. Celtis laevigata	5	~	FACW	UPL species 0 $x 5 = 0$
3				Column Totals: <u>60</u> (A) <u>120</u> (B)
4				Prevalence Index = $B/A = 2.0$
5 6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7			·	2 - Dominance Test is >50%
8		= Total Cov		\square 3 - Prevalence Index is $\leq 3.0^1$
75				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 7.5	20% of	total cover:	5.0	
Herb Stratum (Plot size: <u>15 ft r</u>)	15			¹ Indicators of hydric soil and wetland hydrology must
1. Juncus effusus	15	<u> </u>	OBL	be present, unless disturbed or problematic.
2. Carex sp.	5	<u> </u>		Definitions of Four Vegetation Strata:
3. Rumex crispus	5	 ✓ 	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Weedy vine All weedy vince greater than 2.29 ft in
11				Woody vine – All woody vines greater than 3.28 ft in height.
12.				
	25%	= Total Cov	er	
50% of total cover: 12.5		total cover:		
Woody Vine Stratum (Plot size: <u>30 ft r</u>)	20 /0 01			
1				
2				
3				
4				
5				Hydrophytic
		Total Cov		Vegetation Present? Yes <u> Ves</u> No
50% of total cover:	20% of	total cover:		
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe	to the dept	needed to docur	nent the	indicator	or confirm	the absence	of indicators.)			
Depth	Matrix		Redo	x Feature	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	S		
-											
-											
-											
-				<u> </u>							
-											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.											
¹ Type: C=C	PL=Pore Lining, M=Ma	atrix.									
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless othe	rwise no	ted.)		Indicators	for Problematic Hydr	ic Soils ³ :		
Histosol	(A1)		Polyvalue Be	elow Surfa	ace (S8) (L	.RR S, T, U) 🔲 1 cm N	/luck (A9) (LRR O)			
Histic E	pipedon (A2)		Thin Dark Su	urface (SS) (LRR S,	T, U)	2 cm N	/luck (A10) (LRR S)			
Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	L Reduc	ed Vertic (F18) (outsid	e MLRA 150A,B)		
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Piedm	ont Floodplain Soils (F1	9) (LRR P, S, T)		
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			L Anoma	alous Bright Loamy Soil	s (F20)		
	Bodies (A6) (LRR F		Redox Dark	Surface (F6)			RA 153B)			
	ucky Mineral (A7) (L		Depleted Da					arent Material (TF2)			
	esence (A8) (LRR I	J)	Redox Depre		-8)			hallow Dark Surface (T	F12)		
	uck (A9) (LRR P, T)		Marl (F10) (L				Other Other	(Explain in Remarks)			
	d Below Dark Surfac	ce (A11)					- 3				
	ark Surface (A12)							cators of hydrophytic ve	-		
	rairie Redox (A16) (—			, U)		land hydrology must be			
	Aucky Mineral (S1) (LKK 0, 5)	Delta Ochric			0A 150D)	ume	ess disturbed or probler	nauc.		
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver				۵۸۱				
	Matrix (S6)						A 149A, 153C	153D)			
	rface (S7) (LRR P, 3	S. T. U)					- 1457, 1550	, 1350)			
	Layer (if observed)										
Type:		-									
· · ·	ches):						Hydric Soil	Present? Yes	No		
	cnes).						Hyune Soli				
Remarks:											
No pit d	ug due to ini	undatior	; hydric soil	ls ass	umed.						

Project/Site: Port of Little Rock		City/County: Pulaski County Sampling Date: 2							
Applicant/Owner: Port of Little Rock								oint: SP-32	
			3 T1N R11W						
Landform (hillslope, terrace, etc.): Flat	al relief (conca	ve, convex, n	none): Undulati	ng	Slope (%): 2				
								Datum: WGS 84	
Soil Map Unit Name: Me - Moreland						NWI classifica			
Are climatic / hydrologic conditions on the		or this tim	e of vear?	Yes 🖌 N	o (I				
Are Vegetation, Soil, or						Circumstances" p		s 🖌 No	
Are Vegetation, Soil, or						, xplain any answe			
SUMMARY OF FINDINGS – A								,	
Hydrophytic Vegetation Present?		Is the Sam	pled Area						
Hydric Soil Present?	Yes	_ No	<u>v</u>	within a We	etland?	Yes	No	v	
Wetland Hydrology Present? Remarks:	Yes	N0							
Agricultural field.									
HYDROLOGY									
Wetland Hydrology Indicators:					-	—		m of two required)	
Primary Indicators (minimum of one is						Surface Soil			
Surface Water (A1)			na (B13) ts (B15) (L		-	Drainage Pa	-	cave Surface (B8)	
\square Saturation (A3)			ulfide Odor		-				
Water Marks (B1)		-		along Living R	oots (C3)	Dry-Season	. ,	(C2)	
Sediment Deposits (B2)			Reduced I		. ,	Crayfish Bur		. ,	
Drift Deposits (B3)		cent Iron	Reduction	in Tilled Soils (C6)	Saturation V	sible on Aeri	al Imagery (C9)	
Algal Mat or Crust (B4)			Surface (C7			Geomorphic)	
Iron Deposits (B5)		er (Expla	ain in Rema	arks)		Shallow Aqu	. ,		
Inundation Visible on Aerial Image	əry (B7)					FAC-Neutral	()		
Water-Stained Leaves (B9)						Sphagnum n	1055 (D6) (Lf	(K I, U)	
	No 🖌	Depth (inches):						
	No 🔽								
	No 🖌				Wetland Hy	ydrology Preser	t? Yes	No 🖌	
(includes capillary fringe) Describe Recorded Data (stream gauge	ao monitorina y	voll poris	l photos in	rovious insport	ione) if avail				
Describe Recorded Data (stream gau		ven, aena	a priotos, p	revious irispeci	10115), 11 avai				
Remarks:									

20.4	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r) 1.)	<u>% Cover</u> <u>Species?</u> <u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2		
3	· · · ·	Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: 100 (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8		OBL species 0 $x_1 = 0$
	= Total Cover	FACW species 0 x 2 = 0
	20% of total cover:	FAC species 20 x 3 = 60
Sapling/Shrub Stratum (Plot size: 30 ft r)		FACU species 3 $x 4 = 12$
1	· ·	UPL species 0 $x = 0$
2	·	
3	·	Column Totals: <u>23</u> (A) <u>72</u> (B)
4	· · ·	
5		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	·	\Box 3 - Prevalence Index is $\leq 3.0^1$
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size: 15 ft r)		¹ Indicators of hydric soil and wetland hydrology must
1. unidentifed grass	40 🖌	be present, unless disturbed or problematic.
2. Andropogon virginicus	20 🖌 FAC	Definitions of Four Vegetation Strata:
_{3.} Carex sp.	20 🖌	Tree Manda and a such dia a size of (7.0 and) as
4 Ranunculus sp.	10	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Vicia sativa	3 FACU	height.
		On the stOle and the Manufactor and a discussion of the store
6 7		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9 10		Woody vine – All woody vines greater than 3.28 ft in
11	· ·	height.
12		
	93% = Total Cover	
50% of total cover: 46.5	20% of total cover: 18.6	
Woody Vine Stratum (Plot size: 30 ft r)		
1,		
2		
3		
4		
5		Hydrophytic
	= Total Cover	Vegetation Present? Yes ✔ No
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptations belo	ow).	
Dominant herbs not identified to spe	cies: hydrophytic ve	detation assumed

Profile Desc	ription: (Describe	to the depth	needed to docu	nent the i	indicator	or confirn	n the absence of	indicato	rs.)	
Depth Matrix Redox Features										
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 18	10YR 4/3	100					Clay			
-										
					·					
					·					
-							<u> </u>			
_				<u> </u>						
-										
1 Type: C=C	oncentration, D=De	nletion RM=F	Peduced Matrix M	S=Masker	Sand Gr	aine	² Location: PL	=Pore Li	ining, M=Matri	
	Indicators: (Appli					anis.	Indicators for			
			Polyvalue Be			RRSTI			-	
	oipedon (A2)		Thin Dark Su							
Black Hi			Loamy Muck							//LRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	-		-,				(LRR P, S, T)
	d Layers (A5)		Depleted Ma						Loamy Soils (I	
Organic	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F	-6)		(MLRA			
🔲 5 ст Мі	ucky Mineral (A7) (L	RR P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pare	nt Materia	al (TF2)	
	esence (A8) (LRR I		Redox Depre	essions (F	8)		U Very Sha	llow Dark	Surface (TF1	2)
	uck (A9) (LRR P, T)		Marl (F10) (L				U Other (Ex	plain in F	≀emarks)	
	d Below Dark Surfa	ce (A11)	Depleted Oc				2			
	ark Surface (A12)		Iron-Mangan					-	Irophytic veget	
	rairie Redox (A16) (, U)	wetland hydrology must be present, unless disturbed or problematic.			
	Aucky Mineral (S1)	LRR O, S)	Delta Ochric					disturbe	d or problema	liC.
	Bleyed Matrix (S4) Redox (S5)		Reduced Ve							
	Matrix (S6)			•	• •	•	49A) RA 149A, 153C, 15	53D)		
	rface (S7) (LRR P,	S. T. U)		Shght Loai		1 20) (WE N	(A 149A, 1990, 1	550)		
	Layer (if observed)									
Type:										
	ches):						Hydric Soil Pr	ocont?	Yes	No 🖌
	cnes).						Hyune Soli Fi	esenti	165	
Remarks:										

Project/Site: Port of Little Rock	_ City/County: Pulaski County Sampling Date: 2023-02-28			
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-33			
Investigator(s): Jimmy Rogers Section, Township, Range: S33 T1N R11W				
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): Concave Slope (%): 2			
Subregion (LRR or MLRA): P 133B Lat: 34.6				
Soil Map Unit Name: No - Norwood silty clay loam	NWI classification: none			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>//</u> 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 p	-			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes V No Hydric Soil Present? Yes V No Wetland Hydrology Present? Yes V No	− within a Wetland? Yes V No			
Remarks:				
Agricultural field.				
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)			
Sediment Deposits (B2)	B13) Sparsely Vegetated Concave Surface (B8) 15) (LRR U) Drainage Patterns (B10) a Odor (C1) Moss Trim Lines (B16) beheres along Living Roots (C3) Dry-Season Water Table (C2) uced Iron (C4) Crayfish Burrows (C8) uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) ce (C7) Geomorphic Position (D2)			
Surface Water Present? Yes 🖌 No Depth (inche	es): <u>2</u>			
Water Table Present? Yes <u>V</u> No Depth (inche				
Saturation Present? Yes No Ves Depth (inche (includes capillary fringe)	es): Wetland Hydrology Present? Yes <u>V</u> No			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Recent significant rainfall likely contribute	es to observed hydrology.			
Tree Stratum (Plot size: 30 ft r)	% Cover		Status	Dominance Test worksheet: Number of Dominant Species
--	---------	-------------	------------	---
1				That Are OBL, FACW, or FAC: 2 (A)
2 3				Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
8				OBL species 15 x 1 = 15
50% of total cover:				FACW species 0 $x 2 = 0$
50% of total cover: Sapling/Shrub Stratum (Plot size: _30 ft r)	20% 01		•	FAC species <u>30</u> x 3 = <u>90</u>
				FACU species $0 x 4 = 0$
1				UPL species <u>0</u> x 5 = <u>0</u>
2				Column Totals: <u>45</u> (A) <u>105</u> (B)
3 4				Prevalence Index = $B/A = 2.33$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$
	=	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 15 ft r) 1. Carex sp.	50	~		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Carex sp. 2. Juncus effusus	15	· ·	OBL	Definitions of Four Vegetation Strata:
3. Rumex crispus	15	~	FAC	Deminions of Four Vegetation of data.
4. Andropogon virginicus	10		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Juncus tenuis	5		FAC	height.
6. Ranunculus sp.	5			Senling/Shrub Weedy plants evoluting vince loss
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
				Woody vine - All woody vines greater than 3.28 ft in
11			. <u> </u>	height.
12	10.0%			
F0.0		= Total Co		
50% of total cover: 50.0	20% of	total cover	20.0	
Woody Vine Stratum (Plot size: <u>30 ft r</u>)				
1				
2				
3				
4				
5				Hydrophytic
				Vegetation Present? Yes V No
50% of total cover:		total cover	·	
Remarks: (If observed, list morphological adaptations belo				
Dominant herb not identified to spec	ies due	e to tim	e of ye	ar; hydrophytic vegetation
assumed.			-	

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 18	7.5YR 5/1	80	7.5YR 3/4	20	С	М	Clay	
-								
						·		
						·		·
						·		
-								
-								
-				-				
	oncentration, D=Dep	lotion PM-		S-Masko			² Location:	PL=Pore Lining, M=Matrix.
	Indicators: (Applic					aii 15.		for Problematic Hydric Soils ³ :
			Polyvalue B			RRSTI		Auck (A9) (LRR O)
	bipedon (A2)		Thin Dark S				· 🗖	Auck (A10) (LRR S)
Black Hi			Loamy Much					ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gley			,		ont Floodplain Soils (F19) (LRR P, S, T)
	l Layers (A5)		Depleted Ma		()			alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	P. T. U)	Redox Dark		F6)			RA 153B)
	icky Mineral (A7) (L							arent Material (TF2)
	esence (A8) (LRR L		Redox Depr		. ,			hallow Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (I		,			(Explain in Remarks)
Depleted	d Below Dark Surfac	e (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
Thick Da	ark Surface (A12)		Iron-Mangar	ese Mass	ses (F12)	(LRR O, P,	T) ³ Indic	ators of hydrophytic vegetation and
Coast Pi	rairie Redox (A16) (I	MLRA 150/	A) 🔲 Umbric Surfa	ace (F13)	(LRR P, 1	Γ, U)	wet	land hydrology must be present,
	lucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (M	LRA 151)		unle	ess disturbed or problematic.
	eleyed Matrix (S4)		Reduced Ve					
	ledox (S5)		Piedmont Fl					
	Matrix (S6)		Anomalous I	Bright Loa	my Soils	(F20) (MLR	RA 149A, 153C	, 153D)
	rface (S7) (LRR P, S	-						
	_ayer (if observed)	:						
Туре:								
Depth (inc	ches):						Hydric Soil	Present? Yes <u>V</u> No
Remarks:								

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-0						
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-34						
	Section, Township, Range: S33 T1N R11W						
Landform (hillslope, terrace, etc.): Depression	Local relief	(concave, convex, nor	ne): Concave	Slope (%): 1			
Subregion (LRR or MLRA): P 133B			,	Datum: WGS 84			
Soil Map Unit Name: La - Latanier silty clay			NWI classificat				
Are climatic / hydrologic conditions on the site typica	I for this time of year? Ves						
Are Vegetation, Soil, or Hydrology _							
Are Vegetation, Soil, or Hydrology _ Are Vegetation, Soil, or Hydrology _							
		(If needed, expl	-				
SUMMARY OF FINDINGS – Attach site	map snowing samplin	g point locations	, transects,	Important features, etc.			
	/No Is th	ne Sampled Area					
	<u>No</u> with	in a Wetland?	Yes 🖌	No			
Wetland Hydrology Present? Yes	<u></u> No	_					
Wetland slough.							
HYDROLOGY							
Wetland Hydrology Indicators:		Se	condary Indicat	ors (minimum of two required)			
Primary Indicators (minimum of one is required; ch	eck all that apply)	<u>C</u>	Surface Soil C				
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Veg	etated Concave Surface (B8)			
	Marl Deposits (B15) (LRR U)		Drainage Patt	terns (B10)			
	Hydrogen Sulfide Odor (C1)		Moss Trim Lir	, ,			
	Dxidized Rhizospheres along I		1 -	Vater Table (C2)			
	Presence of Reduced Iron (C4		Crayfish Burro	· · /			
	Recent Iron Reduction in Tillec Thin Muck Surface (C7)		Geomorphic F	sible on Aerial Imagery (C9)			
	Other (Explain in Remarks)		Shallow Aquit				
Inundation Visible on Aerial Imagery (B7)		<u>\</u>	FAC-Neutral				
Water-Stained Leaves (B9)			Sphagnum moss (D8) (LRR T, U)				
Field Observations:							
Surface Water Present? Yes 🖌 No	Depth (inches): <u>4-12</u>						
	Depth (inches):						
Saturation Present? Yes <u>No</u> Vo	Depth (inches):	Wetland Hyd	rology Present	t? Yes 🧭 No			
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous	inspections), if availab	ile:				
Demontos							
Remarks:							

		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r) 1.)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 1	(A)
2 3				Total Number of Dominant Species Across All Strata: <u>1</u>	(B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100	(A/B)
6				Prevalence Index worksheet:	
7					
8					-
	:	= Total Cov	/er		
50% of total cover:	20% of	total cover	:	FACW species 0 $x = 0$ FAC species 0 $x = 0$	
Sapling/Shrub Stratum (Plot size: 30 ft r)					
1				FACU species $\frac{0}{2}$ x 4 = $\frac{0}{2}$	
2				UPL species $\frac{0}{05}$ x 5 = $\frac{0}{05}$	
3				Column Totals: <u>85</u> (A) <u>85</u>	(B)
4				Prevalence Index = B/A = 1.0	-
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				\Box 3 - Prevalence Index is $\leq 3.0^1$	
		= Total Cov	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:		
<u>Herb Stratum</u> (Plot size: <u>30 ft r</u>) 1 Persicaria amphibia	80	~	OBL	¹ Indicators of hydric soil and wetland hydrology mu	ust
1. Persicaria amphibia 2. Juncus effusus	5		OBL	be present, unless disturbed or problematic.	
				Definitions of Four Vegetation Strata:	
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cr	
4	. <u> </u>			more in diameter at breast height (DBH), regardles	ss of
5				height.	
6				Sapling/Shrub – Woody plants, excluding vines, I	ess
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regard	lless
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine – All woody vines greater than 3.28 ft	't in
11				height.	
12					
	85% :	= Total Cov	ver		
50% of total cover: 42.5					
Woody Vine Stratum (Plot size: 30 ft r)					
1					
2					
3					
4 5					
		= Total Cov		Hydrophytic Vegetation	
50% of total cover:				Present? Yes <u>V</u> No	
Remarks: (If observed, list morphological adaptations belo	w).				

Profile Desc	ription: (Describe	e to the dept	h needed to docu	ment the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix	<u> </u>		x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
						·		
-								
-								
·						·		
-								
-								
						·		
-								
¹ Type: C=C	oncentration, D=De	pletion, RM=	Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise no	ted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	-low Surfa	ace (S8) (I	RR S. T. U		Muck (A9) (LRR O)
	oipedon (A2)		Thin Dark Su					Muck (A10) (LRR S)
	stic (A3)							ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)			-		(0)		ont Floodplain Soils (F19) (LRR P, S, T)
					(1 2)			
	d Layers (A5)		Depleted Ma					alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark		,			RA 153B)
	ucky Mineral (A7) (L		Depleted Da		. ,			arent Material (TF2)
	esence (A8) (LRR		Redox Depr		-8)			Shallow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (I				Cther	(Explain in Remarks)
	d Below Dark Surfa	ce (A11)	Depleted Oc					
Thick Da	ark Surface (A12)		Iron-Mangar	ese Mass	ses (F12) ((LRR O, P, ⁻		cators of hydrophytic vegetation and
Coast P	rairie Redox (A16)	(MLRA 150A) 🔟 Umbric Surfa	ace (F13)	(LRR P, 1	r, U)	wet	tland hydrology must be present,
Sandy M	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (M	LRA 151)		unl	ess disturbed or problematic.
Sandy C	Bleyed Matrix (S4)		Reduced Ve	rtic (F18)	(MLRA 15	50A, 150B)		
Sandy R	Redox (S5)		Piedmont Fle	odplain S	Soils (F19)) (MLRA 149	9A)	
Stripped	Matrix (S6)		Anomalous I	Bright Loa	my Soils ((F20) (MLR	A 149A, 153C	s, 153D)
Dark Su	rface (S7) (LRR P,	S, T, U)						
Restrictive I	Layer (if observed):						
Type:		•						
Depth (in	cnes):						Hydric Soil	Present? Yes V No
Remarks:								
No pit d	ug due to in	undatior	n: hvdric soi	ls assi	umed.			
			.,,					

Project/Site: Port of Little Rock	City/County: Pulas	ki County	Sampling Date: 2023-03-07		
Applicant/Owner: Port of Little Rock		State: Arkansas			
	Section, Township, Range: S33 T1N R11W				
		e, convex, none): Concave	Slope (%); 2		
Subregion (LRR or MLRA): P 133B Lat: 34.6		· · · · · · · · · · · · · · · · · · ·	Datum: WGS 84		
Soil Map Unit Name: No - Norwood silty clay loam		NWI classifica			
Are climatic / hydrologic conditions on the site typical for this time of					
Are Vegetation, Soil, or Hydrology significant					
Are Vegetation, Soil, or Hydrology naturally					
SUMMARY OF FINDINGS – Attach site map showin	ng sampling poin	t locations, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes 🖌 No	— Is the Samp	lad Araa			
Hydric Soil Present? Yes 🖌 No			No		
Wetland Hydrology Present? Yes <u>V</u> No					
Remarks:					
Farm drainage edge.					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply	V)	Surface Soil			
Surface Water (A1)			jetated Concave Surface (B8)		
High Water Table (A2)		Drainage Pat			
Saturation (A3)		Moss Trim Li			
Water Marks (B1) Oxidized Rhizos	pheres along Living Ro	oots (C3) 🔲 Dry-Season \	Water Table (C2)		
Sediment Deposits (B2)	luced Iron (C4)	Crayfish Burr	rows (C8)		
Drift Deposits (B3)	uction in Tilled Soils (C	6) 🗌 Saturation Vi	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	ce (C7)	Geomorphic	Position (D2)		
Iron Deposits (B5)	n Remarks)	Shallow Aqui	tard (D3)		
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	. ,		
Water-Stained Leaves (B9)		Sphagnum m	noss (D8) (LRR T, U)		
Field Observations:).				
Surface Water Present? Yes No Depth (inche					
Water Table Present? Yes No Depth (inche Octuation Dependence Yes No Depth (inche					
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inche (includes capillary fringe)	es): <u>8</u>	Wetland Hydrology Presen	t? Yes 🚩 No		
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspection	ons), if available:			
Devedue					
Remarks:					

	. .		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft	<u>r)</u>		Species?		Number of Dominant Species
1. Celtis laevigata		20	<u> </u>	FACW	That Are OBL, FACW, or FAC: <u>5</u> (A)
2. Fraxinus pennsylvanica		20	~	FACW	Total Number of Dominant
3. Populus deltoides		5		FAC	Species Across All Strata: <u>5</u> (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 100 (A/B)
6					Prevalence Index worksheet:
7					Total % Cover of: Multiply by:
8					$\begin{array}{c c c c c c c c c c c c c c c c c c c $
			= Total Co		FACW species 40 x 2 = 80
	50% of total cover: 22.5	20% of	total cover	<u>9.0</u>	FAC species 20 x 3 = 60
Sapling/Shrub Stratum (Plot siz	e: <u>30 ft r</u>)				FACU species 0 $x 4 = 0$
1					$\begin{array}{c} \text{PACO Species} \underline{0} \\ \text{UPL species} \underline{0} \\ \text{x 5 = } \\ 0 \end{array}$
2					·
3					Column Totals: <u>90</u> (A) <u>170</u> (B)
4					Prevalence Index = $B/A = 1.89$
5					Hydrophytic Vegetation Indicators:
6					1 - Rapid Test for Hydrophytic Vegetation
7					 ✓ 2 - Dominance Test is >50%
8					$\boxed{3}$ - Prevalence Index is $\leq 3.0^1$
			= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
	50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 15 ft					¹ Indicators of hydric soil and wetland hydrology must
1. Juncus effusus	,	30	~	OBL	be present, unless disturbed or problematic.
2. Rumex crispus		5		FAC	Definitions of Four Vegetation Strata:
3.					
4					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5					height.
6					
					Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7					
8					Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9					
10					Woody vine – All woody vines greater than 3.28 ft in
11		<u> </u>			height.
12		25%			
	17 5		= Total Co		
	50% of total cover: <u>17.5</u>	20% of	total cover	<u>7.0</u>	
Woody Vine Stratum (Plot size:	30111)	-		F AQ	
1. Rubus argutus		5		FAC	
2. Smilax bona-nox		<u> </u>	~	FAC	
3					
4					
5					Hydrophytic
		10% =	= Total Co	ver	Vegetation Present? Yes <u>V</u> No
	50% of total cover: 5.0	20% of	total cover	<u>.</u> 2.0	Present? Yes Ves No
Remarks: (If observed, list mor	phological adaptations belo	w).			

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the	indicator	or confir	m the absence of	of indicators.)
Depth	Matrix		Redo	x Feature	es		_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 18	2.5YR 5/1	85	2.5YR 4/4	15	С	М	Silty Clay	
-								
·						·		
						·		
-				<u> </u>				
-								
		·						
						·	<u> </u>	
-							<u> </u>	
¹ Type: C=Co	oncentration, D=Dep	oletion, RM=	Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
	ndicators: (Applic							for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfa	ace (S8) (L	RR S. T.	U) 1 cm M	uck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					uck (A10) (LRR S)
Black Hi			Loamy Muck					ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	-		,		ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma		. ,			lous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	. ,	F6)			A 153B)
-	cky Mineral (A7) (L		Depleted Da	rk Surface	é (F7)		Red Pa	rent Material (TF2)
	esence (A8) (LRR I		Redox Depre	essions (F	-8)		U Very Sh	nallow Dark Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other (I	Explain in Remarks)
Depleted	Below Dark Surfac	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	ses (F12) ((LRR O, P	P, T) ³ Indica	ators of hydrophytic vegetation and
Coast Pr	rairie Redox (A16) (MLRA 150A) 🔲 Umbric Surfa	ace (F13)	(LRR P, T	', U)	wetla	and hydrology must be present,
🔲 Sandy M	lucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (M	LRA 151)		unle	ss disturbed or problematic.
🔲 Sandy G	leyed Matrix (S4)		Reduced Ver	rtic (F18)	(MLRA 15	50A, 150B	8)	
Sandy R	edox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 1	49A)	
Stripped	Matrix (S6)		Anomalous E	Bright Loa	imy Soils (F20) (ML	RA 149A, 153C,	153D)
	rface (S7) (LRR P,							
Restrictive L	_ayer (if observed)	:						
Туре:								
Depth (ind	ches):						Hydric Soil I	Present? Yes 🖌 No
Remarks:								

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-03-14
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-36
	Section, Township, Range: S34 T1N R11W
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 1
	34.6684001 Long: -92.18579649 Datum: WGS 84
Soil Map Unit Name: No - Norwood silty clay loam	NWI classification:NONE
	time of year? Yes No (If no, explain in Remarks.)
	nificantly disturbed? Are "Normal Circumstances" present? Yes <u> </u> No
Are Vegetation, Soil, or Hydrology na	
	howing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?Yes✓NoHydric Soil Present?Yes✓NoWetland Hydrology Present?Yes✓No	within a Wetland? Yes V No
Remarks:	
Field drainageway.	
HYDROLOGY	
High Water Table (A2) Marl Depo Saturation (A3) Hydrogen Water Marks (B1) Oxidized Sediment Deposits (B2) Presence Drift Deposits (B3) Recent Ird Algal Mat or Crust (B4) Thin Much	auna (B13) osits (B15) (LRR U) Sulfide Odor (C1) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) on Reduction in Tilled Soils (C6) k Surface (C7) plain in Remarks) Image: A construction in Re
Remarks:	

20 ft -		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2				Total Number of Dominant Species Across All Strata: 4 (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov	ver	OBL species $\frac{25}{25}$ x 1 = $\frac{25}{52}$
50% of total cover:	20% of	total cover	:	FACW species $\frac{25}{15}$ x 2 = $\frac{50}{15}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{15}{2}$ x 3 = $\frac{45}{2}$
1				FACU species $\frac{0}{2}$ x 4 = $\frac{0}{2}$
2				UPL species $0 \times 5 = 0$
3				Column Totals: <u>65</u> (A) <u>120</u> (B)
4				Prevalence Index = $B/A = 1.85$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				☑ 2 - Dominance Test is >50%
8				\Box 3 - Prevalence Index is $\leq 3.0^1$
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
<u>Herb Stratum</u> (Plot size: <u>15 ft r</u>) 1. Sesbania herbacea	25	~	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Rumex crispus	15	~	FAC	Definitions of Four Vegetation Strata:
3. Ludwigia alternifolia	10	~	OBL	
4. Persicaria amphibia	10	~	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5 unidentified herb	10	~		height.
6 Juncus effusus	5		OBL	Sanling/Shrub Woody plants evoluting vince loss
7. Ranunculus sp.	5			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	0.0%			
		= Total Cov		
50% of total cover: 40.0 Woody Vine Stratum (Plot size: 30 ft r)	20% of	total cover	10.0	
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	ver	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes Vo No
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Descri	ption: (Describe	to the depth	needed to docum	ent the i	ndicator	or confirm t	the absence	of indicators.))	
Depth	Matrix			Features	8					
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	I	Remarks	
-										
						<u> </u>				
-										
-										
							2			
			educed Matrix, MS			ains.		PL=Pore Lining	-	
		able to all LH	Rs, unless other					for Problemat	•	iolis":
Histosol (A			Polyvalue Bel					luck (A9) (LRR		
Histic Epip			Thin Dark Su					luck (A10) (LRI		
Black Histi	()		Loamy Mucky			(0)		ed Vertic (F18)		
	Sulfide (A4)		Loamy Gleye		-2)			ont Floodplain S		
	.ayers (A5) odies (A6) (LRR P	.T IN	Depleted Mat	• •	6)			lous Bright Loa RA 153B)	arriy Solis (r	-20)
-	y Mineral (A7) (LRR P		Depleted Dark	```	,			arent Material (
	sence (A8) (LRR L		Redox Depre					hallow Dark Su		2)
	(A9) (LRR P, T)	')	Marl (F10) (L	•)			Explain in Rem		-)
	Below Dark Surfac	e (A11)	Depleted Och		(MLRA 1	51)			iunic)	
= .	Surface (A12)	()	Iron-Mangane) ³ Indica	ators of hydrop	hytic veget	ation and
	rie Redox (A16) (I	MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	, U)	wetl	and hydrology	must be pr	esent,
Sandy Mu	cky Mineral (S1) (LRR O, S)	Delta Ochric	F17) (ML	RA 151)		unle	ess disturbed or	r problemat	ic.
Sandy Gle	yed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 15	0A, 150B)				
Sandy Red	dox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 149	A)			
Stripped N	latrix (S6)		Anomalous B	right Loar	ny Soils (F20) (MLRA	149A, 153C,	153D)		
	ace (S7) (LRR P, S	-								
Restrictive La	yer (if observed)	:								
Туре:			_							
Depth (inch	es):						Hydric Soil	Present? Ye	es 🖌	No
Remarks:										
No pit du	a due to inu	undation	; hydric soil	s assu	med.					
	9 4 4 6 1 6 1 1 6									

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-03-07			
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-37					
	Section, Township, Range: S33 T1N R11W					
Landform (hillslope, terrace, etc.): Flat	Local relief (concav	ve, convex, none): Undulati	ng Slope (%): _2			
Subregion (LRR or MLRA): P 133B Lat		·	Datum: WGS 84			
Soil Map Unit Name: La - Latanier silty clay		NWI classifica				
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes Yes N					
Are Vegetation, Soil, or Hydrology sig						
Are Vegetation, Soil, or Hydrology na		If needed, explain any answer				
SUMMARY OF FINDINGS – Attach site map s			,			
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	within a We		No			
Agricultural field. HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)			
High Water Table (A2) Marl Depo Saturation (A3) Hydrogen Water Marks (B1) Oxidized Sediment Deposits (B2) Presence Drift Deposits (B3) Recent Ird Algal Mat or Crust (B4) Thin Much	at apply) auna (B13) osits (B15) (LRR U) I Sulfide Odor (C1) Rhizospheres along Living R of Reduced Iron (C4) on Reduction in Tilled Soils (k Surface (C7) plain in Remarks)	Drainage Pat Moss Trim Li Moss Trim Li Dry-Season V Crayfish Burr C6) Geomorphic Shallow Aqui FAC-Neutral	etated Concave Surface (B8) terns (B10) nes (B16) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3)			
Surface Water Present? Yes No Dept	h (inches) [.]					
Water Table Present? Yes No Vo Dept Saturation Present? Yes No Vo Dept (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, action	h (inches): h (inches):	Wetland Hydrology Presen ions), if available:	t? Yes No			
Remarks:						

	Absolute Domin		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1	<u>% Cover</u> <u>Spec</u>		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
23			Total Number of Dominant Species Across All Strata: 3 (B)
4 5			Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)
6			
7			Prevalence Index worksheet:
8			Total % Cover of: Multiply by:
	= Total	Cover	OBL species 0 $x = 0$
50% of total co	over: 20% of total c	over:	FACW species 0 $x = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)		FAC species $\frac{65}{20}$ x 3 = $\frac{195}{120}$
1			FACU species 30 x 4 = 120
2			UPL species 0 x 5 = 0
3			Column Totals: <u>95</u> (A) <u>315</u> (B)
4			Prevalence Index = $B/A = 3.32$
5			Hydrophytic Vegetation Indicators:
6			1 - Rapid Test for Hydrophytic Vegetation
7			2 - Dominance Test is >50%
8		FACU	\square 3 - Prevalence Index is ≤3.0 ¹
	= Total	Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total co	ver: 20% of total c	over:	
Herb Stratum (Plot size: 15 ft r) 1 Ranunculus sardous	30 🗸	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Rumex crispus	25 🗸	FAC	Definitions of Four Vegetation Strata:
3. Lolium perenne	20 🖌		
4 Andropogon virginicus	10	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5 Allium vineale	10	FACU	more in diameter at breast height (DBH), regardless of height.
6 Geranium sp.	5		
7			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10			Woody vine – All woody vines greater than 3.28 ft in
11			height.
12	<u>100%</u> = Total	Cover	
50% of total co			
Woody Vine Stratum (Plot size: 30 ft r)	over. <u>20</u>	
1			
2			
3			
4			
5			Hydrophytic
	= Total	Cover	Vegetation
50% of total co	ver: 20% of total c	over:	Present? Yes 🖌 No
Remarks: (If observed, list morphological adapt	tations below).		

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence of	indicato	ors.)	
Depth	Matrix		Redo	x Features	S					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 18	7.5YR 3/3	100					Silty Clay			
-										<u> </u>
-										
				·			<u> </u>			<u> </u>
-										
-										
							2	D 1		
	oncentration, D=Dep					ains.	² Location: PL Indicators for			
	Indicators: (Applic	able to all L							-	5011S :
Histosol	. ,		Polyvalue Be							
	pipedon (A2)		Thin Dark Su				2 cm Muc			
Black Hi	stic (A3)		Loamy Muck	y Mineral ((F1) (LRF	R O)				MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedmont	Floodpla	ain Soils (F19) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			📙 Anomalou	us Bright	Loamy Soils	(F20)
Organic	Bodies (A6) (LRR F	, T, U)	Redox Dark	Surface (F	6)		(MLRA	153B)		
5 cm Μι	icky Mineral (A7) (L	RR P, T, U)	Depleted Da	rk Surface	(F7)		Red Pare	nt Materi	ial (TF2)	
Muck Pr	esence (A8) (LRR L	J)	Redox Depre	essions (F8	8)		Very Shal	low Dark	Surface (TF	12)
	ick (A9) (LRR P, T)		Marl (F10) (L		,		Other (Ex		•	,
	d Below Dark Surfac	e (A11)	Depleted Oc	•	(MLRA 1	51)			,	
	ark Surface (A12)		Iron-Mangan				T) ³ Indicato	ors of hyd	drophytic vege	etation and
	rairie Redox (A16) (MI RA 150A)						•	ogy must be p	
	lucky Mineral (S1) (Delta Ochric			, .,		-	d or problem	
	Bleyed Matrix (S4)		Reduced Ver			(0A 150B)		uistuibe		allo.
	Redox (S5)		Piedmont Flo							
				•	, ,	•		20)		
	Matrix (S6)	ст III		Singrit Loar	ny Solis (F20) (IVILR	A 149A, 153C, 18	550)		
	rface (S7) (LRR P, S Layer (if observed)									
	Layer (if observed)									
Туре:										
Depth (in	ches):						Hydric Soil Pre	esent?	Yes	No 🖌
Remarks:										

Project/Site: Port of Little Rock	City/C	_{ounty:} Pulaski County		Sampling Date: 2023-03-07
Applicant/Owner: Port of Little Rock	,			Sampling Point: SP-38
	Section			
Landform (hillslope, terrace, etc.): Depression	Local	relief (concave, convex, no	one): Concave	Slope (%): 1
Subregion (LRR or MLRA): P 133B				Datum: WGS 84
Soil Map Unit Name: La - Latanier silty clay			NWI classifica	
Are climatic / hydrologic conditions on the site typ		es 🖌 No (If		
Are Vegetation, Soil, or Hydrology				
Are Vegetation, Soil, or Hydrology			blain any answer	
SUMMARY OF FINDINGS – Attach si			-	·
Hydrophytic Vegetation Present? Yes _ Hydric Soil Present? Yes _	✓ No ✓ No	Is the Sampled Area	,	
	✓ No	within a Wetland?	Yes 🔽	No
Remarks:				
Agricultural field.				
HYDROLOGY				
Wetland Hydrology Indicators:		<u>S</u>	econdary Indica	tors (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)	<u>[</u>	Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRI	R U)	Drainage Pat	terns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1) <u>L</u>	Moss Trim Li	nes (B16)
Water Marks (B1)	Oxidized Rhizospheres a	long Living Roots (C3)	Dry-Season \	Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iro	n (C4)	Crayfish Burr	ows (C8)
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Ļ	Geomorphic	Position (D2)
Iron Deposits (B5)	Other (Explain in Remark	s)	Shallow Aqui	tard (D3)
Inundation Visible on Aerial Imagery (B7)		<u> </u>	FAC-Neutral	. ,
Water-Stained Leaves (B9)		<u>L</u>	Sphagnum m	oss (D8) (LRR T, U)
Field Observations:				
	Depth (inches): 2+6			
	✓ Depth (inches):			
Saturation Present? Yes <u>No</u> (includes capillary fringe)	✓ Depth (inches):	Wetland Hy	drology Presen	t? Yes 🖌 No
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, pre	vious inspections), if availa	ble:	
Remarks:				

00.0			Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r	· · · · · · · · · · · · · · · · · · ·		Species?		Number of Dominant Species
1					That Are OBL, FACW, or FAC: 2 (A)
2					Total Number of Dominant
3					Species Across All Strata: <u>2</u> (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 100 (A/B)
6				. <u></u>	Prevalence Index worksheet:
7					
8					
	_	=	Total Cov	er	
50% of to	al cover:	20% of	otal cover:		FACW species $\frac{0}{5}$ x 2 = $\frac{0}{15}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{5}{2}$ x 3 = $\frac{15}{2}$
1					FACU species 0 $x 4 = 0$
2					UPL species 0 $x 5 = 0$
3					Column Totals: <u>85</u> (A) <u>95</u> (B)
4					Prevalence Index = $B/A = 1.12$
5.					
6					Hydrophytic Vegetation Indicators:
					✓ 1 - Rapid Test for Hydrophytic Vegetation
7					2 - Dominance Test is >50%
8					\square 3 - Prevalence Index is $\leq 3.0^{1}$
			Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
	al cover:	20% of 1	otal cover:		
Herb Stratum (Plot size: 15 ft r		· •			¹ Indicators of hydric soil and wetland hydrology must
1. Eleocharis palustris		<u>.</u>	<u> </u>	OBL	be present, unless disturbed or problematic.
2. Juncus effusus		20	~	OBL	Definitions of Four Vegetation Strata:
3. Persicaria amphibia	· · · · · · · · · · · · · · · · · · ·	0		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
_{4.} Ranunculus sp.	5				more in diameter at breast height (DBH), regardless of
5. Rumex crispus	5	j <u> </u>		FAC	height.
6					Sapling/Shrub – Woody plants, excluding vines, less
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8					Herb – All herbaceous (non-woody) plants, regardless
9					of size, and woody plants less than 3.28 ft tall.
10					
11.					Woody vine – All woody vines greater than 3.28 ft in height.
12.		·			noight.
	9	0% =	Total Cov	or	
50% of to	al cover: 45.0				
Woody Vine Stratum (Plot size: 30 ft r	.ai cover. <u></u>	20 /0 01			
)				
1					
2					
3					
4					
5		·		. <u> </u>	Hydrophytic
	_	=	Total Cov	er	Vegetation Present? Yes V No
50% of to	al cover:	20% of	otal cover:		
Remarks: (If observed, list morphological	adaptations below).	-			·

Profile Des	cription: (Describ	be to the dep	th needed to docu	ment the i	indicator	or confirm	the absence of	indicators.)
Depth	Matrix		Redo	ox Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
_	· · ·							
	·					·		
-								
-								
					·	·		
						·		
-								
-								
1							2	
			Reduced Matrix, M			ains.		_=Pore Lining, M=Matrix.
		licable to all	LRRs, unless othe					r Problematic Hydric Soils ³ :
Histosol	· · /		Polyvalue Be					ck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					ck (A10) (LRR S)
	listic (A3)		Loamy Muck	-		R O)		Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley		(F2)			Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma	atrix (F3)			L Anomalou	us Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR	P, T, U)	Redox Dark	Surface (F	-6)		(MLRA	153B)
	ucky Mineral (A7) (Depleted Da	rk Surface	e (F7)			nt Material (TF2)
Muck P	resence (A8) (LRR	: U)	Redox Depr	essions (F	8)		Very Sha	llow Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, 1	-)	Marl (F10) (I	LRR U)			Other (Ex	plain in Remarks)
Deplete	ed Below Dark Surf	ace (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
Thick D	ark Surface (A12)		Iron-Mangar	nese Mass	es (F12) (LRR O, P,	T) ³ Indicato	ors of hydrophytic vegetation and
Coast F	Prairie Redox (A16)	(MLRA 150A	🔥 🔲 Umbric Surfa	ace (F13) ((LRR P, 1	', U)	wetlan	d hydrology must be present,
Sandy I	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	_RA 151)		unless	disturbed or problematic.
Sandy (Gleyed Matrix (S4)		Reduced Ve	rtic (F18) ((MLRA 15	50A, 150B)		
Sandy I	Redox (S5)		Piedmont Fl	oodplain S	oils (F19)	(MLRA 14	9A)	
	d Matrix (S6)						A 149A, 153C, 1	53D)
	urface (S7) (LRR P	, S, T, U)		U				
	Layer (if observe	-						
Type:								
	iches):						Hydric Soil Pr	esent? Yes 🖌 No
							Hyunc Son Fr	
Remarks:								
No pit d	lug due to ir	nundatio	n; hydric soi	ls assu	umed.			
	•							

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-0					
Applicant/Owner: Port of Little Rock						
Investigator(s): Jimmy Rogers Section, Township, Range: S33 T1N R11W						
Landform (hillslope, terrace, etc.): Depression	Local relief (conc	ave, convex, none): Concave	e Slope (%): 1			
Subregion (LRR or MLRA): P 133B			Datum: WGS 84			
Soil Map Unit Name: Pe - Perry clay, 0 to 1 per						
Are climatic / hydrologic conditions on the site typical						
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" p				
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe				
SUMMARY OF FINDINGS – Attach site			·			
Hydrophytic Vegetation Present? Yes _ Hydric Soil Present? Yes _	No Is the San No within a V	npled Area	No			
Wetland Hydrology Present? Yes _	No					
Drainageway.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)			
High Water Table (A2) M Saturation (A3) H Water Marks (B1) C Sediment Deposits (B2) P Drift Deposits (B3) R Algal Mat or Crust (B4) T Iron Deposits (B5) C Inundation Visible on Aerial Imagery (B7) ✓ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Water Table Present? Yes No	quatic Fauna (B13) larl Deposits (B15) (LRR U) ydrogen Sulfide Odor (C1) xidized Rhizospheres along Living resence of Reduced Iron (C4) ecent Iron Reduction in Tilled Soils hin Muck Surface (C7) ther (Explain in Remarks)	Drainage Pa Moss Trim L Moss Trim L Crayfish Bur (C6) Crayfish Bur Geomorphic Shallow Aqu FAC-Neutral Sphagnum n	getated Concave Surface (B8) itterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Position (D2) itard (D3) I Test (D5) noss (D8) (LRR T, U)			
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Preser	nt? Yes 🖌 No			
Describe Recorded Data (stream gauge, monitoring Remarks:	well, aerial photos, previous inspe	tions), if available:				

20.4 -		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species
1. Populus deltoides	20	<u> </u>	FAC	That Are OBL, FACW, or FAC: <u>5</u> (A)
2. Salix nigra	10	 ✓ 	OBL	Total Number of Dominant
3. Carya myristiciformis	5		FACW	Species Across All Strata: 5 (B)
4. Celtis laevigata	5		FACW	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	40% =	= Total Cov	er	OBL species $\frac{45}{25}$ x 1 = $\frac{45}{52}$
50% of total cover: 20.0	20% of	total cover:	8.0	FACW species $\frac{25}{22}$ x 2 = $\frac{50}{22}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 20 x 3 = 60
1. Celtis laevigata	5	~	FACW	FACU species 0 x 4 = 0
2. Fraxinus pennsylvanica	F	~	FACW	UPL species $0 \times 5 = 0$
3.				Column Totals: <u>90</u> (A) <u>155</u> (B)
4				
				Prevalence Index = B/A = <u>1.72</u>
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				☑ 2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^1$
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>5.0</u>	20% of	total cover:	2.0	
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Iris pseudacorus	30	<u> </u>	OBL	be present, unless disturbed or problematic.
2. Carex sp.	5			Definitions of Four Vegetation Strata:
3. Juncus effusus	5		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Rumex verticillatus	5		FACW	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
				Woody vine – All woody vines greater than 3.28 ft in
				height.
12	45%	Total Cov		
50% of both 1 and 22 5				
50% of total cover: 22.5	∠∪% Of	total cover:	5.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
	:	Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes 🔽 No
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	cription: (Describ	e to the dept	h needed to docur	nent the	indicator	or confirm	the absence of	f indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
					·	·		
-								
-								
					·	·		
-		<u> </u>				·		
-								
1							2	
			Reduced Matrix, M			ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appl	icable to all	LRRs, unless othe	rwise not	ed.)		Indicators fo	or Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfa	ice (S8) (I	_RR S, T, U) <u> </u> 1 cm Mu	ick (A9) (LRR O)
Histic E	pipedon (A2)		Thin Dark Su	irface (S9) (LRR S,	T, U)	2 cm Mu	ick (A10) (LRR S)
Black H	istic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduced	d Vertic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix ((F2)		Piedmon	nt Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)			Anomalo	ous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR	P, T, U)	Redox Dark	Surface (F	=6)		(MLRA	A 153B)
5 cm Mi	ucky Mineral (A7) (LRR P, T, U)	Depleted Da	rk Surface	e (F7)		Red Pare	ent Material (TF2)
	resence (A8) (LRR		Redox Depre				Very Sha	allow Dark Surface (TF12)
	uck (A9) (LRR P, T		Marl (F10) (L		,			xplain in Remarks)
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)		
	ark Surface (A12)	,	Iron-Mangan				T) ³ Indicat	tors of hydrophytic vegetation and
	rairie Redox (A16)	(MI RA 1504						nd hydrology must be present,
	/ucky Mineral (S1)		Delta Ochric					s disturbed or problematic.
	Gleyed Matrix (S4)	(ERR 0, 0)	Reduced Ver				unco	s distarbed of problematic.
	Redox (S5)		Piedmont Flo				0.4.)	
	Matrix (S6)							(52D)
	Inface (S7) (LRR P	е т II)		Shyrit Lua	iny sons (A 149A, 153C, 1	1 33 <i>D</i>)
		-						
_	Layer (if observed	ı):						
Туре:								,
Depth (in	ches):						Hydric Soil P	resent? Yes 🥙 No
Remarks:								
No nit d	ua due to ir	undatio	n; hydric soil	6 2661	Imod			
no pit u	uy uue to ii	unuatio	n, nyunc son	5 8551	ineu.			

Project/Site: Port of Little Rock	City/County: Pul	aski County	Sampling Date: 2023-03-07
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Townshi		
Landform (hillslope, terrace, etc.): Depression	Local relief (conca		e Slope (%): 1
Subregion (LRR or MLRA): P 133B		,	Datum: WGS 84
Soil Map Unit Name: <u>No - Norwood silty clay loar</u>			ation: none
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	ap showing sampling po	int locations, transects	s, important features, etc.
	No Is the San		· · ·
	No No	npled Area	,
	NO within a W	/etland? Yes	<u>′No</u>
Remarks:	I		
Agricultural field.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil	Cracks (B6)
	atic Fauna (B13)		getated Concave Surface (B8)
	I Deposits (B15) (LRR U)		atterns (B10)
	rogen Sulfide Odor (C1) dized Rhizospheres along Living	Moss Trim L	Water Table (C2)
	sence of Reduced Iron (C4)	Crayfish Bu	
\square	ent Iron Reduction in Tilled Soils		isible on Aerial Imagery (C9)
	Muck Surface (C7)	Geomorphic	Position (D2)
	er (Explain in Remarks)	🔲 Shallow Aqu	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	. ,
Water-Stained Leaves (B9)		Sphagnum i	moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <u>Yes</u> No	Depth (inchas): $0-2$		
	Depth (inches):		
	Depth (inches):	Wetland Hydrology Prese	nt? Yes 🖌 No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous inspe	ctions), if available:	
Remarks:			

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 0 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: NaN (A/E
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
0		= Total Co		OBL species <u>15</u> x 1 = <u>15</u>
				FACW species 0 x 2 = 0
50% of total cover:	20% 01	total cover	:	FAC species 10 x 3 = 30
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species $0 x 4 = 0$
1				UPL species $0 \times 5 = 0$
2				
3				Column Totals: <u>25</u> (A) <u>45</u> (B
4				Prevalence Index = $B/A = 1.8$
5				Hydrophytic Vegetation Indicators:
6				□ 1 - Rapid Test for Hydrophytic Vegetation
7				
8				2 - Dominance Test is >50%
0				3 - Prevalence Index is ≤3.0 ¹
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% 01	total cover	:	
Herb Stratum (Plot size: 15 ft r)	~~			¹ Indicators of hydric soil and wetland hydrology must
1. Carex sp.	60	~		be present, unless disturbed or problematic.
2. Juncus effusus	15		OBL	Definitions of Four Vegetation Strata:
3. Rumex crispus	10		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
4. Ranunculus sp.	5			more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
				Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
9				
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Co		
50% of total cover: 45.0	20% of	total cover	<u>:</u> 18.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co		Vegetation Present? Yes V No
50% of total cover:	20% of	total cover	:	
Remarks: (If observed, list morphological adaptations below	ow).			
Dominant herb not identified to spec	cies due	to tim	e of ve	ar: assumed hydrophytic
			y	

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirm	n the absence	e of indicators.)
Depth	 Matrix	•		x Feature	s			,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 20	5YR 4/2	90	5YR 3/4	10	С	М	Clay	
-								
_								
		·						
-								
-								
-				<u> </u>				
¹ Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	d Sand G	rains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to all	LRRs, unless othe	rwise not	ed.)			s for Problematic Hydric Soils ³ :
Histosol ((A1)		Polyvalue Be		. , .			Muck (A9) (LRR O)
	oipedon (A2)		Thin Dark Su 🗌					Muck (A10) (LRR S)
Black Hi			Loamy Muck	•		R 0)		ced Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		F2)			nont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma					alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark		,			RA 153B)
	cky Mineral (A7) (Li				` '			Parent Material (TF2)
	esence (A8) (LRR U)	Redox Depre	•	8)			Shallow Dark Surface (TF12)
	ick (A9) (LRR P, T) d Below Dark Surfac	م (۵11)	Depleted Oc			51)		(Explain in Remarks)
	ark Surface (A12)	C (ATT)	Iron-Mangan	• •	•		T) ³ India	cators of hydrophytic vegetation and
	rairie Redox (A16) (I	MLRA 1504			• •	•		tland hydrology must be present,
	lucky Mineral (S1) (I		Delta Ochric					less disturbed or problematic.
	leyed Matrix (S4)	-,-,	Reduced Ver					
	edox (S5)		Piedmont Flo					
Stripped	Matrix (S6)		Anomalous E	Bright Loar	my Soils	(F20) (MLF	RA 149A, 153C	C, 153D)
	rface (S7) (LRR P, S							
Restrictive L	_ayer (if observed)							
Туре:								
Depth (inc	ches):						Hydric Soil	l Present? Yes 🥓 No
Remarks:							•	

Project/Site: Port of Little Rock	City/0	County: Pulaski County		Sampling Date: 2023-03-07
Applicant/Owner: Port of Little Rock		-		Sampling Point: SP-41
	Secti			
Landform (hillslope, terrace, etc.): Depression	Local	relief (concave, convex, no	one): Concave	Slope (%): 1
Subregion (LRR or MLRA): P 133B	Lat: 34.66503	Long: -9		Datum: WGS 84
Soil Map Unit Name: Me - Moreland silty cl	ay	0	NWI classifica	
Are climatic / hydrologic conditions on the site ty		′es ✔ No (If		
Are Vegetation, Soil, or Hydrolog				
Are Vegetation, Soil, or Hydrolog			plain any answer	
SUMMARY OF FINDINGS – Attach s				
Hydric Soil Present? Yes	No No No No No	Is the Sampled Area within a Wetland?	Yes 🗸	No
Remarks:				
Agricultural field.				
HYDROLOGY				
Wetland Hydrology Indicators:		5	Secondary Indica	tors (minimum of two required)
	Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Irc Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark Depth (inches): 0-2	C1) [Drainage Pat Moss Trim Lii Dry-Season V Crayfish Burr Saturation Vis Geomorphic Shallow Aqui FAC-Neutral	etated Concave Surface (B8) terns (B10) nes (B16) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3)
	Depth (inches):		drology Presen	t? Yes 🖌 No
(includes capillary fringe) Describe Recorded Data (stream gauge, monit Remarks:	toring well, aerial photos, pre	vious inspections), if availa	able:	

201	Absolute	Dominant	t Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2				
3				Total Number of Dominant Species Across All Strata: 0 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>NaN</u> (A/E
6				Development in development of a
7			·	Prevalence Index worksheet:
8				Total % Cover of: Multiply by: OBL species 15 x 1 = 15
	:	= Total Co	ver	
50% of total cover:	20% of	f total cove	r:	FACW species 0 $x = 0$ FAC species 3 $x = 9$
Sapling/Shrub Stratum (Plot size: 30 ft r)				
1	<u> </u>			
2				UPL species $\frac{0}{10}$ x 5 = $\frac{0}{04}$
3				Column Totals: <u>18</u> (A) <u>24</u> (B)
4				Prevalence Index = $B/A = 1.33$
5				Hydrophytic Vegetation Indicators:
6				□ 1 - Rapid Test for Hydrophytic Vegetation
7				\square 2 - Dominance Test is >50%
8				\checkmark 3 - Prevalence Index is ≤3.0 ¹
		= Total Co		\square Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	f total cove	r:	
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Carex sp.	70	~		be present, unless disturbed or problematic.
2 Juncus effusus	15		OBL	Definitions of Four Vegetation Strata:
3. Rumex crispus	3		FAC	_
A Ranunculus sp.	2			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) c more in diameter at breast height (DBH), regardless o
5			·	height.
6				
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10			·	
11			·	Woody vine – All woody vines greater than 3.28 ft in height.
12	·		·	neight.
12.	90%	= Total Co		
50% of total cover: 45.0				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)	20% 01			
1				
2				
3				
4			·	
5			·	Hydrophytic
		= Total Co		Vegetation Present? Yes V No
50% of total cover:		total cove	r:	
Remarks: (If observed, list morphological adaptations belo	ow).			
Dominant herb not identified to spec	ies due	e to tim	e of year	ar; assumed hydrophytic.
•				

Profile Desc	ription: (Describe	to the dept	h needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)	
Depth	Matrix			K Features		<u> </u>			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Rei	marks
0 - 20	5YR 4/2	90	5YR 3/4	10	С	M	Clay		
-									
-									
		·							
-		·							
-									
1 Type: C=Cc	ncentration D=Der	letion RM=	Reduced Matrix, MS	=Masked	Sand Gr	aine	² Location:	PL=Pore Lining, N	M=Matrix
			LRRs, unless other			um s .		for Problematic I	*
Histosol (Polyvalue Be			RRSTI	_	luck (A9) (LRR O)	•
	vipedon (A2)		Thin Dark Su					luck (A10) (LRR S	
Black His			Loamy Mucky						utside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		. , .	,			ils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat		/			lous Bright Loamy	
	Bodies (A6) (LRR P	. T. U)	Redox Dark S	· · /	6)			A 153B)	, (,
	cky Mineral (A7) (LI		Depleted Dar	`	,			arent Material (TF2	2)
	esence (A8) (LRR U		Redox Depre					hallow Dark Surfa	
	ck (A9) (LRR P, T)		Marl (F10) (L		,			Explain in Remarl	. ,
	Below Dark Surfac	e (A11)	Depleted Och		(MLRA 1	51)			
Thick Da	irk Surface (A12)		Iron-Mangane	ese Mass	es (F12) (LRR O, P,	T) ³ Indica	ators of hydrophyt	tic vegetation and
Coast Pr	airie Redox (A16) (I	MLRA 150A) 🔲 Umbric Surfa	ce (F13) ((LRR P, T	, U)	wetl	and hydrology mu	ust be present,
🔲 Sandy M	lucky Mineral (S1) (I	LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unle	ess disturbed or pr	roblematic.
🔲 Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 15	0A, 150B)			
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)		
	Matrix (S6)		Anomalous B	right Loar	my Soils (F20) (MLR	A 149A, 153C,	153D)	
	face (S7) (LRR P, S	-					-		
Restrictive L	ayer (if observed)								
Туре:									
Depth (inc	ches):						Hydric Soil	Present? Yes	✓ No
Remarks:							1		

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-03-07
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Township		
Landform (hillslope, terrace, etc.): Depression	Local relief (conca	ve, convex, none): Concave	Slope (%): 1
Subregion (LRR or MLRA): P 133B			Datum: WGS 84
Soil Map Unit Name: Pe - Perry clay, 0 to 1 pe		NWI classifica	
Are climatic / hydrologic conditions on the site typic			
Are Vegetation, Soil, or Hydrology _	-	Are "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology _		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site			
Hydrophytic Vegetation Present? Yes	No Is the Sam	pled Area	
	No within a W	•	No
Wetland Hydrology Present? Yes Remarks:	✓ No		
Agricultural field.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; c	heck all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)		getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pa	
$\Box \qquad \Box \qquad$	Hydrogen Sulfide Odor (C1)	Moss Trim L	. ,
Water Marks (B1)	Oxidized Rhizospheres along Living F		Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Position (D2)
$\square \text{ Iron Deposits (B5)} \qquad \square$	Other (Explain in Remarks)	Shallow Aqu	, ,
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)		=	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes 🗹 No	Depth (inches): <u>0-2</u>		
	Depth (inches):		
Saturation Present? Yes <u>No</u> (includes capillary fringe)	Depth (inches):	Wetland Hydrology Preser	nt? Yes 🖌 No
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspec	tions), if available:	
Remarks:			

Tree Stratum (Plot size: 30 ft r		Dominant Species?		Dominance Test worksheet:
1)				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>1</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species 30 x 1 = 30
50% of total cover:		= Total Cov		FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size:)	20% 0	lotal cover	·	FAC species 5 x 3 = 15
				FACU species 0 x 4 = 0
1				UPL species 0 x 5 = 0
3				Column Totals: <u>35</u> (A) <u>45</u> (B)
4				
5				Prevalence Index = B/A = <u>1.29</u>
6				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7				\square 2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^{1}$
		= Total Co		\square Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	f total cover	:	
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Carex sp.	40	~		be present, unless disturbed or problematic.
2. Juncus effusus	30	~	OBL	Definitions of Four Vegetation Strata:
3. Andropogon virginicus	5		FAC	Tree Weedy plants excluding vines 3 in (7.6 cm) o
4. Eleocharis sp.	5			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o more in diameter at breast height (DBH), regardless of
5	<u> </u>			height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12			. <u></u>	
		= Total Co		
50% of total cover: <u>40.0</u>	20% of	f total cover	<u>:</u> 16.0	
Woody Vine Stratum (Plot size: <u>30 ft r</u>)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co		Vegetation Present? Yes V No
50% of total cover:		total cover	·	
Remarks: (If observed, list morphological adaptations bel	ow).			
Dominant herb not identified to spec	cies due	e to tim	e of ye	ar; assumed hydrophytic.
·			-	

Profile Desc	ription: (Describe	to the dept	h needed to docun	nent the i	ndicator	or confir	m the absence	of indicators.)
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 20	5YR 4/2	90	5YR 3/4	10	С	М	Clay	
-								
-							- <u> </u>	
-								
_								
-								
			Reduced Matrix, MS			ains.		PL=Pore Lining, M=Matrix.
-		cable to all L	RRs, unless other		•		_	for Problematic Hydric Soils ³ :
Histosol			Polyvalue Be					/luck (A9) (LRR O)
	oipedon (A2)		Thin Dark Su					/luck (A10) (LRR S)
Black Hi			Loamy Muck			R O)		ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat	. ,				alous Bright Loamy Soils (F20)
-	Bodies (A6) (LRR F		Redox Dark S	•	,		•	RA 153B)
	icky Mineral (A7) (L esence (A8) (LRR I		Depleted Dar		• •			arent Material (TF2) hallow Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (L	•	0)			(Explain in Remarks)
	Below Dark Surfac				(MLRA 1	51)		
	ark Surface (A12)		Iron-Mangan				P.T) ³ Indic	ators of hydrophytic vegetation and
	rairie Redox (A16) (MLRA 150A						land hydrology must be present,
	lucky Mineral (S1)		Delta Ochric					ess disturbed or problematic.
Sandy G	Bleyed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 15	60A, 150B	3)	
Sandy R	ledox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 1	49A)	
Stripped	Matrix (S6)		Anomalous B	right Loar	my Soils (F20) (ML	RA 149A, 153C	, 153D)
	rface (S7) (LRR P,							
Restrictive I	_ayer (if observed)):						
Туре:								
Depth (ind	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:								

Project/Site: Port of Little Rock			City/	County: Pulas	ski County		Sampling Date: 2023	3-03-14	
Applicant/Owner: Port of Little Roo	ck						Sampling Point: SP-4		
Investigator(s): Jimmy Rogers			Sect	tion, Township,					
Landform (hillslope, terrace, etc.): Fla	t			al relief (concav	e. convex. no	one): None	Slope (%):	0	
Subregion (LRR or MLRA): P 133B				•			Datum: V		
Soil Map Unit Name: RmA - Rilla si						NWI classifica			
Are climatic / hydrologic conditions on				Yes 🖌 No	o (If				
Are Vegetation, Soil, c							resent? Yes <u>/</u> N	lo	
Are Vegetation, Soil, c						, plain any answe			
SUMMARY OF FINDINGS -						-		es, etc.	
Hydrophytic Vegetation Present?	Yes	No	~						
Hydric Soil Present?	Yes	No	~	Is the Samp within a We		Yes	No 🖌		
Wetland Hydrology Present?	Yes			within a we	uanu :	165			
Agricultural field.									
HYDROLOGY									
Wetland Hydrology Indicators:					<u>S</u>	-	tors (minimum of two re	quired)	
Primary Indicators (minimum of one					ŀ	Surface Soil			
Surface Water (A1)	· · ·	uatic Fau	. ,		L T	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)			ts (B15) (LF ulfide Odor		Ī	☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16)			
Water Marks (B1)		-		along Living Ro	oots (C3)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)			Reduced Ir		Ì	Crayfish Buri			
Drift Deposits (B3)		cent Iron	Reduction i	in Tilled Soils (C	(6)	Saturation Vi	sible on Aerial Imagery	(C9)	
Algal Mat or Crust (B4)			urface (C7)		Ļ	-	Position (D2)		
Iron Deposits (B5)		ner (Expla	ain in Rema	rks)	Ļ	Shallow Aqui	. ,		
Inundation Visible on Aerial Ima	gery (B7)				Ļ	FAC-Neutral	Test (D5) noss (D8) (LRR T, U)		
Field Observations:					L				
	No 🖌	Depth (inches):						
Water Table Present? Yes	No 🖌	_ Depth (inches):						
	No 🖌	_ Depth (inches):		Wetland Hy	drology Presen	t? Yes <u>No</u>	~	
(includes capillary fringe) Describe Recorded Data (stream ga	uae. monitorina v	well. aeria	l photos, pr	revious inspecti	ons), if availa	able:			
J	- <u></u>	- ,	р, р		//				
Remarks:									

Tree Obstant (Distring 30 ft r		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2		·		Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>50</u> (A/B)
6				Prevalence Index worksheet:
7 8				Total % Cover of: Multiply by:
0		= Total Cov	/er	OBL species 0 x 1 = 0
50% of total cover:				FACW species <u>0</u> x 2 = <u>0</u>
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{35}{45}$ x 3 = $\frac{105}{100}$
1				FACU species 45 $x = 180$
2				UPL species 0 x 5 = 0
3				Column Totals: <u>80</u> (A) <u>285</u> (B)
4				Prevalence Index = B/A = <u>3.56</u>
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				
50% of total cover:		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 20 ft r)	20 % 01		·	1
1. Lolium perenne	40	~	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Ranunculus sardous	30	~	FAC	Definitions of Four Vegetation Strata:
3. Cardamine hirsuta	5		FACU	
4. Geranium carolinianum	5			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Rumex crispus	5		FAC	height.
6. unidentified grass	5			Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10 11				Woody vine – All woody vines greater than 3.28 ft in height.
12.				neight.
	90%	= Total Cov	ver	
50% of total cover: 45.0				
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4	·	·		
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes No Vegetation
50% of total cover:		total cover		
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Description: (Desc	ribe to the dept	h needed to docur	nent the i	indicator	or confirm	n the absence of	f indicators.)
Depth <u>Ma</u>			x Feature	s			
(inches) Color (mois	<u>st) %</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3 5YR 4/3	100					Silt	
3 - 18 5YR 5/4	100					Silt Loam	
				·			
	·						
-						<u> </u>	
			<u> </u>				
-							
				·			
<u> </u>						2	
¹ Type: C=Concentration, D Hydric Soil Indicators: (A					ains.		PL=Pore Lining, M=Matrix.
 Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (L 5 cm Mucky Mineral (A) Muck Presence (A8) (L 1 cm Muck (A9) (LRR F Depleted Below Dark S Thick Dark Surface (A1 Coast Prairie Redox (A) Sandy Mucky Mineral (S) Sandy Redox (S5) Stripped Matrix (S6) 	RR P, T, U) 7) (LRR P, T, U) RR U) P, T) urface (A11) 2) 16) (MLRA 150A S1) (LRR O, S)	Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Dal Redox Depre Marl (F10) (L Depleted Ocl Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo	elow Surfa urface (S9 y Mineral ed Matrix (trix (F3) Surface (F rk Surface essions (F .RR U) hric (F11) ese Mass ace (F13) ((F17) (ML rtic (F18) (bodplain S	ce (S8) (L) (LRR S, (F1) (LRR (F2) =6) e (F7) 8) (MLRA 15 es (F12) ((LRR P, T _RA 151) (MLRA 15 coils (F19)	T, U) ≿ O) LRR O, P, , U) 0A, 150B) (MLRA 14	 J) 1 cm Mut 2 cm Mut Reduced Piedmon Anomalo (MLRA Red Pare Very Sha Other (E: T) ³ Indicate wetlar unless	ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outside MLRA 150A,B) it Floodplain Soils (F19) (LRR P, S, T) bus Bright Loamy Soils (F20) A 153B) ent Material (TF2) allow Dark Surface (TF12) xplain in Remarks) tors of hydrophytic vegetation and nd hydrology must be present, s disturbed or problematic.
Dark Surface (S7) (LRF	R P, S, T, U)		Singint Loai		20) (МЕК		
Restrictive Layer (if obser							
Туре:							
Depth (inches):						Hydric Soil P	resent?Yes No 🖌
Remarks:						,	

Project/Site: Port of Little Rock		Citv/	_{County:} Pulaski Cou	nty	Sampling Date: 2023-03-14			
Applicant/Owner: Port of Little Roc	k		State: Arkansas Sampling Point: SP-44					
Investigator(s): Jimmy Rogers		Sect	_ Section, Township, Range: S34 T1N R11W					
Landform (hillslope, terrace, etc.): Dep					Slope (%): <u>1</u>			
Subregion (LRR or MLRA): P 133B					Datum: WGS 84			
Soil Map Unit Name: RmA - Rilla sil			Long.	NWI classifica				
Are climatic / hydrologic conditions on			Yes V No					
Are Vegetation, Soil, or		-			resent? Yes <u><!--</u-->No</u>			
Are Vegetation, Soil, or				d, explain any answe				
SUMMARY OF FINDINGS – A					·			
					, important reatures, etc.			
Hydrophytic Vegetation Present?		No	Is the Sampled Are	а				
Hydric Soil Present?		No	within a Wetland?	Yes 🔽	No			
Wetland Hydrology Present? Remarks:	Yes 🔽	No						
Wetland Hydrology Indicators: Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Aqua Marl Hydr Oxidi Pres	atic Fauna (B13) Deposits (B15) (LR rogen Sulfide Odor (C1) along Living Roots (C3 on (C4)	Surface Soil (Sparsely Veg Drainage Pat Moss Trim Li Dry-Season V Crayfish Burr	etated Concave Surface (B8) terns (B10) nes (B16) Water Table (C2)			
Algal Mat or Crust (B4)		Muck Surface (C7)		Geomorphic				
Iron Deposits (B5)		er (Explain in Remar	—					
 Inundation Visible on Aerial Imag Water-Stained Leaves (B9) 	ery (B7)			FAC-Neutral	. ,			
Field Observations:					oss (D8) (LRR T, U)			
	No	Depth (inches): 0-2	2					
		Depth (inches): 0						
Saturation Present? Yes _ (includes capillary fringe)	✓ No	Depth (inches): 0	Wetlan	d Hydrology Presen	t? Yes 🖌 No			
Describe Recorded Data (stream gau	ige, monitoring we	ell, aerial photos, pr	evious inspections), if a	available:				
Remarks:								

50% of total cover:	20% of	total cover	:	
				Present? Yes <u>V</u> No
		= Total Cov		Hydrophytic Vegetation
5				Hydrophytic
4				
3				
·				
Voody Vine Stratum (Plot size: <u>30 ft r</u>)	20 % OI			
50% of total cover: 49.0				
12		= Total Cov		
11				height.
10				Woody vine – All woody vines greater than 3.28 ft in
)				
3				Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
7				
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Ranunculus sardous	3		FAC	
Rumex crispus	5		FAC	more in diameter at breast height (DBH), regardless of height.
juncus effusus	5		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
Solidago sp.	10			
Juncus effusus	15		OBL	Definitions of Four Vegetation Strata:
Carex sp.	60	~		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: 15 ft r)				
50% of total cover:				
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
l				\checkmark 3 - Prevalence Index is $\leq 3.0^{1}$
·				\square 2 - Dominance Test is >50%
5				□ 1 - Rapid Test for Hydrophytic Vegetation
5				Hydrophytic Vegetation Indicators:
4				Prevalence Index = $B/A = 1.57$
3				Column Totals: <u>28</u> (A) <u>44</u> (B
2				UPL species 0 $x = 0$
1				FACU species 0 $x = 0$
Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>)				FAC species $\frac{8}{24}$ x 3 = $\frac{24}{24}$
50% of total cover:	20% of	total cover	: <u> </u>	FACW species $\frac{0}{24}$ x 2 = $\frac{0}{24}$
	:	= Total Cov	ver	OBL species $\frac{20}{2}$ x 1 = $\frac{20}{2}$
3				Total % Cover of: Multiply by:
7				
ð				Prevalence Index worksheet:
5				That Are OBL, FACW, or FAC: NaN (A/
4				Percent of Dominant Species
3				Species Across All Strata: 0 (B)
2				Total Number of Dominant
				That Are OBL, FACW, or FAC: 0 (A)
ree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species
Tree Stratum (Plot size: 30 ft r)	% Cover		<u>Status</u>	Dominance Test worksheet: Number of Dominant Species

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 2	5YR 4/2	100					Silty Clay	
2 - 15	5YR 5/2	85	5YR 4/4	15	С	М	Silty Clay	
-								
		·			·			
		·						
-		·		·				
-		<u></u>		<u></u>	. <u> </u>			
¹ Type: C=Co	oncentration, D=Dep	letion, RM:	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to all	LRRs, unless other	wise not	ed.)		Indicators	for Problematic Hydric Soils ³ :
Histosol ((A1)		Polyvalue Be	low Surfa	ice (S8) (L	RR S, T, U	I) 🛄 1 cm M	1uck (A9) (LRR O)
Histic Ep	ipedon (A2)		Thin Dark Su	rface (S9) (LRR S,	T, U)		/luck (A10) (LRR S)
Black His			Loamy Mucky			0)		ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)	T 10	Depleted Mat	· · /	-0)			alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P cky Mineral (A7) (LF		Redox Dark S	•	,		•	RA 153B) arent Material (TF2)
	esence (A8) (LRR U		Redox Depre		. ,			hallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	,	Marl (F10) (L		0)			(Explain in Remarks)
	Below Dark Surface	e (A11)	Depleted Och		(MLRA 1	51)		· · · · · · · · · · · · · · · · · · ·
Thick Da	irk Surface (A12)		Iron-Mangane	ese Mass	es (F12) (LRR O, P,	T) ³ Indic	ators of hydrophytic vegetation and
	airie Redox (A16) (N		A) 🔲 Umbric Surfa	ce (F13)	(LRR P, T	, U)		land hydrology must be present,
	lucky Mineral (S1) (L	.RR O, S)	Delta Ochric					ess disturbed or problematic.
	leyed Matrix (S4)							
	edox (S5)		Piedmont Flo	•	• •	•	•	452D)
= ···	Matrix (S6) face (S7) (LRR P, S	: Т IN		ngni Loa	my Solis (-20) (IVILR	A 149A, 153C	, 1550)
	ayer (if observed):	-						
Type:	,							
	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:							Tryane con	
Remarks.								

Project/Site: Port of Little Rock	City/C	ounty: Pulaski Count	Sampling Date: 2023-02-20				
Applicant/Owner: Port of Little Ro		State: Arkansas					
Investigator(s): Jimmy Rogers	Sectio	on, Township, Range: <u>S</u>					
Landform (hillslope, terrace, etc.): Flat		Local relief (concave, convex, n		_{none):} None	Slope (%): 0-2		
Subregion (LRR or MLRA): P 133B		Lat: 34.66878	Long: -	92.17981	Datum: WGS 84		
Soil Map Unit Name: RmA - Rilla s				NWI classifica			
Are climatic / hydrologic conditions of	n the site typical fc	r this time of year? Y					
Are Vegetation, Soil,	or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No 🖌		
Are Vegetation, Soil,				explain any answe			
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	Is the Sampled Area within a Wetland?	Yes	No		
Remarks:							
Former home site. Det							
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one 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 Ima Water-Stained Leaves (B9) Field Observations: Surface Water Present?	atic Fauna (B13) I Deposits (B15) (LRI Irogen Sulfide Odor (0 dized Rhizospheres a sence of Reduced Iro cent Iron Reduction in n Muck Surface (C7) er (Explain in Remark	ina (B13) its (B15) (LRR U) ulfide Odor (C1) nizospheres along Living Roots (C3) f Reduced Iron (C4) Reduction in Tilled Soils (C6) Surface (C7)		Cracks (B6) getated Concave Surface (B8) terns (B10) nes (B16) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) noss (D8) (LRR T, U)			
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Ves No _ Depth (inches):				Wetland Hydrology Present? Yes No			
Describe Recorded Data (stream ga	auge, monitoring w	vell, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:							
	. .		Dominant		Dominance Test worksheet:		
--	------------------------------	--------	-----------------------	---	---	--	--
Tree Stratum (Plot size: 20 ft	<u>r)</u>		Species?	<u>Status</u> FAC	Number of Dominant Species		
1. Acer negundo		20 20	<u>~</u>	FAC	That Are OBL, FACW, or FAC: <u>6</u> (A)		
2. Celtis laevigata		20		FAC	Total Number of Dominant		
3. Ulmus americana					Species Across All Strata: <u>8</u> (B)		
4					Percent of Dominant Species		
5					That Are OBL, FACW, or FAC: <u>75</u> (A/B)		
6					Prevalence Index worksheet:		
7							
8							
			= Total Cov				
	50% of total cover: 30.0	20% of	total cover	<u>: 12.0</u>	FACW species 25 x 2 = 50 FAC species 55 x 3 = 165		
Sapling/Shrub Stratum (Plot size	e: 20 ft r)						
1. Celtis laevigata		5	~	FACW	FACU species $\frac{10}{2}$ x 4 = $\frac{40}{2}$		
2. Ligustrum sinense		5	 ✓ 	FAC	UPL species $\frac{0}{25} \times 5 = \frac{0}{255}$		
3					Column Totals: <u>90</u> (A) <u>255</u> (B)		
4					Prevalence Index = $B/A = 2.83$		
5							
6					Hydrophytic Vegetation Indicators:		
7							
8							
0			= Total Cov		3 - Prevalence Index is ≤3.0 ¹		
				Problematic Hydrophytic Vegetation ¹ (Explain)			
11 1 01 1 (D) 1 20 ft	50% of total cover: 5.0	20% 01	total cover	. 2.0			
Herb Stratum (Plot size: 20 ft 1 Allium vineale		5		FACU	¹ Indicators of hydric soil and wetland hydrology must		
· ·		5	<u> </u>	FACU	be present, unless disturbed or problematic.		
2. Carex sp.			~	·	Definitions of Four Vegetation Strata:		
3. Geranium carolinianum					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or		
4					more in diameter at breast height (DBH), regardless of		
5					height.		
6					Sapling/Shrub – Woody plants, excluding vines, less		
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
8				. <u> </u>	Herb – All herbaceous (non-woody) plants, regardless		
9					of size, and woody plants less than 3.28 ft tall.		
10					Woody vine – All woody vines greater than 3.28 ft in		
11					height.		
12							
		12% =	= Total Cov	/er			
	50% of total cover: 6.0	20% of	total cover	2.4			
Woody Vine Stratum (Plot size:	20 ft r						
1. Vitis rotundifolia	,	10	~	FAC			
2 Lonicera japonica		5	~	FACU			
3.							
4 5.							
· 5		15% =	= Total Cov		Hydrophytic Vegetation		
	50% of total cover: 7.5		total cover		Present? Yes <u>V</u> No		
			total cover	. 0.0			
Remarks: (If observed, list mor	phological adaptations below	w).					

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	the absence	of indicato	vrs.)	
Depth	Matrix			x Feature						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	·
0 - 6	5YR 2.5/2	100					Silt			
6 - 18	5YR 3/3	100					Silt			
		·								
		·			·		·			
-				<u> </u>			<u> </u>			
_										
-										
		·			·	·	·			
-		·			·					
	oncentration, D=Dep					ains.			ining, M=Ma	
	Indicators: (Applic	able to all L					_		matic Hydrid	c Soils":
Histosol	. ,		Polyvalue Be					luck (A9) (L		
	pipedon (A2)		Thin Dark Su					luck (A10) (
Black Hi	en Sulfide (A4)		Loamy Muck	-		(0)				MLRA 150A,B) 9) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		(FZ)				Loamy Soils	
	Bodies (A6) (LRR P	τ.υ)	Redox Dark	. ,	-6)			RA 153B)	Loanty Cons	(120)
-	ucky Mineral (A7) (LF		Depleted Da		,			arent Materi	ial (TF2)	
	resence (A8) (LRR U		Redox Depre		· · ·				CSurface (TF	-12)
	uck (A9) (LRR P, T)	,	Marl (F10) (L	•	,			Explain in F		,
Depleted	d Below Dark Surface	e (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)				
Thick Da	ark Surface (A12)		Iron-Mangan				T) ³ Indic	ators of hyd	drophytic veg	jetation and
	rairie Redox (A16) (N					', U)		-	ogy must be	
<u> </u>	/lucky Mineral (S1) (L	.RR O, S)	Delta Ochric					ess disturbe	ed or problem	natic.
	Bleyed Matrix (S4)		Reduced Ver							
	Redox (S5)		Piedmont Flo	•	• •	•	•	(505)		
	Matrix (S6)	. .	Anomalous E	Bright Loai	my Soils (F20) (MLR	A 149A, 153C,	, 153D)		
	rface (S7) (LRR P, S Layer (if observed):						1			
	Layer (il observeu).									
Type:										
	ches):						Hydric Soil	Present?	Yes	No
Remarks:										

Project/Site: Port of Little Rock		City/C	_{County:} Pulaski	County		Sampling Dat	ie: 2023-02-20	
Applicant/Owner: Port of Little Rock			-		e: Arkansas			
		Section						
Landform (hillslope, terrace, etc.): Depr	ession	Local	relief (concave.	convex. non	e): Concave	s s	lope (%): 0-2	
Subregion (LRR or MLRA): P 133B							Datum: WGS 84	
Soil Map Unit Name: RmA - Rilla silt	loam, 0 to 1 p	ercent slopes		•	NWI classifica			
Are climatic / hydrologic conditions on th			′es ✓ No					
Are Vegetation, Soil, or H							✓ No	
Are Vegetation, Soil, or H					ain any answe			
SUMMARY OF FINDINGS – At					2		,	
Hydrophytic Vegetation Present?	No							
Hydric Soil Present?	Yes 🖌	No	Is the Sample			No		
Wetland Hydrology Present?	Yes 🖌		within a Wetla	ina ?	res	NO		
Remarks:								
Agricultural field.								
HYDROLOGY								
Wetland Hydrology Indicators:				<u>Se</u>	condary Indica	tors (minimum	of two required)	
Primary Indicators (minimum of one is	required; check	all that apply)			Surface Soil	Cracks (B6)		
Surface Water (A1)		atic Fauna (B13)			Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Deposits (B15) (LR			Drainage Pat			
Saturation (A3)	·	ogen Sulfide Odor (Moss Trim Li	. ,		
Water Marks (B1)		ized Rhizospheres a		ts (C3)	-	Water Table (C	;2)	
Sediment Deposits (B2)		ence of Reduced Irc ent Iron Reduction in	. ,		Crayfish Burr	. ,	Imagany (CO)	
Drift Deposits (B3)		Muck Surface (C7)			Geomorphic	sible on Aerial	inagery (C9)	
\square Iron Deposits (B5)		r (Explain in Remarl	(S)		Shallow Aqui	. ,		
Inundation Visible on Aerial Image		. (,	<u>।</u>	FAC-Neutral			
Water-Stained Leaves (B9)	,					noss (D8) (LRF	₹ T, U)	
Field Observations:								
Surface Water Present? Yes _	<u>No</u>	Depth (inches): <u>3-6</u>	;					
Water Table Present? Yes	No 🖌	Depth (inches):						
	No 🖌	Depth (inches):	w	etland Hydi	rology Presen	t?Yes 🖌	No	
(includes capillary fringe) Describe Recorded Data (stream gaug	e, monitoring we	ell, aerial photos, pre	vious inspection	s), if availab	le:			
Remarks:								
Nonano.								

			Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r	,		Species?		Number of Dominant Species	
1				. <u> </u>	That Are OBL, FACW, or FAC: 2 (A	A)
2				<u> </u>	Total Number of Dominant	
3					· · · · · · · · · · · · · · · · · · ·	B)
4						
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A	A/B)
6						VD)
7					Prevalence Index worksheet:	
8.					Total % Cover of: Multiply by:	
0			Total Cov		OBL species <u>45</u> x 1 = <u>45</u>	
-	0% of total cover:				FACW species <u>0</u> x 2 = <u>0</u>	
		20% 01	total cover	·	FAC species 0 x 3 = 0	
Sapling/Shrub Stratum (Plot size:					FACU species 0 x 4 = 0	
1					UPL species 0 x 5 = 0	
2					Column Totals: 45 45	(P)
3						(D)
4					Prevalence Index = $B/A = 1.0$	
5					Hydrophytic Vegetation Indicators:	
6					I - Rapid Test for Hydrophytic Vegetation	
7					\square 2 - Dominance Test is >50%	
8						
			Total Cov		\square 3 - Prevalence Index is ≤3.0 ¹	
5	0% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)	
		20 % 01		·		
Herb Stratum (Plot size: 15 ft r 1 Ludwigia peploides)	20		OBL	¹ Indicators of hydric soil and wetland hydrology mu	st
			<u> </u>		be present, unless disturbed or problematic.	
2. Persicaria hydropiperoides	6	20	~	OBL	Definitions of Four Vegetation Strata:	
3. Eleocharis obtusa		5		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	n) or
4					more in diameter at breast height (DBH), regardles	
5					height.	
6					Sapling/Shrub – Woody plants, excluding vines, le	ess
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8						
9.					Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall.	ess
10					Woody vine – All woody vines greater than 3.28 ft	in
11				<u> </u>	height.	
12		450/		<u> </u>		
			 Total Cov 			
	0% of total cover: 22.5	20% of	total cover	9.0		
Woody Vine Stratum (Plot size: 3	80 ft r)					
1						
2						
3						
4						
5						
0			Total Cov		Hydrophytic Vegetation	
					Present? Yes <u>V</u> No	
	0% of total cover:		total cover			
Remarks: (If observed, list morpho	ological adaptations below	W).				

Profile Descrip	ption: (Describe	to the depth	needed to docum	ent the i	ndicator	or confirm t	he absence	of indicators.)	
Depth	Matrix			Features	8				
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks	3
-									
-									
-									
	contration D-Dar	lation DM-D	aduard Matrix MC	-Maakad	Cand Cr		² Leastion:	PL=Pore Lining, M=Ma	triv
			educed Matrix, MS RRs, unless other			ains.		for Problematic Hydri	
			_			DD C T III		luck (A9) (LRR O)	
Histosol (A			Polyvalue Bel					luck (A10) (LRR S)	
Black Histi			Loamy Mucky					ed Vertic (F18) (outside	MI RA 150A B)
	Sulfide (A4)		Loamy Gleye			,		ont Floodplain Soils (F1	
Stratified L			Depleted Mat		_,			alous Bright Loamy Soils	
	odies (A6) (LRR P	P, T, U)	Redox Dark S	• •	6)			RA 153B)	、
-	xy Mineral (A7) (Ll		Depleted Dar	k Surface	(F7)		Red Pa	arent Material (TF2)	
Muck Pres	ence (A8) (LRR L	J)	Redox Depre	ssions (F8	3)			hallow Dark Surface (TI	=12)
	(A9) (LRR P, T)		Marl (F10) (L				✓ Other ((Explain in Remarks)	
	Below Dark Surfac	æ (A11)	Depleted Och				. 3		
	Surface (A12)		Iron-Mangane				•	ators of hydrophytic veg	
	rie Redox (A16) (I					, U)		land hydrology must be	
	cky Mineral (S1) (I yed Matrix (S4)	LRR 0, 5)	Delta Ochric (0A 150D)	unie	ess disturbed or problen	natic.
Sandy Gle			Piedmont Flo				۵)		
Stripped M			Anomalous B					. 153D)	
	ice (S7) (LRR P, S	S, T, U)) (,	,,	
	yer (if observed)	-							
Type:									
Depth (inche	es):						Hydric Soil	Present? Yes 🗸	Νο
Remarks:	,								
	a duo to ini	Indation	; hydric soil	e 2001	mod				
No pit du	g uue to int	inuation	, fryund som	5 8550	meu.				

Project/Site: Port of Little Rock	City/County: Pulas	ski County	Sampling Date: 2023-03-14
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Township,		
Landform (hillslope, terrace, etc.): Flat	Local relief (concav	e. convex. none); None	Slope (%): 1
Subregion (LRR or MLRA): P 133B Lat:			
Soil Map Unit Name: BPI - Pits, borrow		NWI classificat	
Are climatic / hydrologic conditions on the site typical for this tir			
Are Vegetation, Soil, or Hydrology sign			
	-		
Are Vegetation, Soil, or Hydrology natu		f needed, explain any answer	
SUMMARY OF FINDINGS – Attach site map sh	owing sampling poir	t locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Samp v v v		No
Remarks:	<u> </u>		
Area disturbed - associated with adjac	cent borrow area.		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)
Saturation (A3) Hydrogen S Water Marks (B1) Oxidized R Sediment Deposits (B2) Presence o Drift Deposits (B3) Recent Iror Algal Mat or Crust (B4) Thin Muck	una (B13) its (B15) (LRR U) Sulfide Odor (C1) hizospheres along Living Re f Reduced Iron (C4) Reduction in Tilled Soils (C Surface (C7) ain in Remarks) (inches): (inches):	Drainage Pat Moss Trim Lii Moss Trim Lii Dry-Season V Crayfish Burn C6) Geomorphic I Shallow Aquii FAC-Neutral Sphagnum m Wetland Hydrology Presen	etated Concave Surface (B8) terns (B10) hes (B16) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) oss (D8) (LRR T, U)
Remarks:			

			Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft))		Species?		Number of Dominant Species		
_{1.} Salix nigra		5	~	OBL	That Are OBL, FACW, or FAC: (A)		
2				FACW	Total Number of Dominant		
3					Species Across All Strata: <u>5</u> (B)		
4							
5					Percent of Dominant Species That Are OBL_FACW_or_FAC ⁻ 60 (A/B)		
					That Are OBL, FACW, or FAC: <u>60</u> (A/B)		
6					Prevalence Index worksheet:		
7					Total % Cover of: Multiply by:		
8					$\begin{array}{c c} \hline \hline \\ $		
		5% :	= Total Co	ver	FACW species 5 $x_2 = 10$		
	50% of total cover: 2.5	20% of	total cover	<u>. 1.0</u>			
Sapling/Shrub Stratum (Plot size	<u>e:</u> 30 ft r)				FAC species 92 x 3 = 276		
1. Baccharis halimifolia		20	~	FAC	FACU species 20 x 4 = 80		
2. Pyrus calleryana		5			UPL species $5 \times 5 = 25$		
		5		UPL	Column Totals: <u>132</u> (A) <u>401</u> (B)		
		5		OBL			
					Prevalence Index = B/A = 3.04		
5					Hydrophytic Vegetation Indicators:		
6					1 - Rapid Test for Hydrophytic Vegetation		
7					✓ 2 - Dominance Test is >50%		
8.							
		20% of total cover: 7.0			Problematic Hydrophytic Vegetation ¹ (Explain)		
		20% 01	total cover	7.0			
Herb Stratum (Plot size: 30 ft	r)				¹ Indicators of hydric soil and wetland hydrology must		
_{1.} Panicum virgatum		50	 ✓ 	FAC	be present, unless disturbed or problematic.		
2. Coreopsis tinctoria		15		FAC	Definitions of Four Vegetation Strata:		
3. Andropogon virginicus		5		FAC			
4. Geranium carolinianum		5			 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 		
5. Solidago gigantea		5		FACW	height.		
6. Vicia sativa		5		FACU	-		
	:	2			Sapling/Shrub – Woody plants, excluding vines, less		
7. Chaerophyllum tainturier				FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
8					Herb – All herbaceous (non-woody) plants, regardless		
9					of size, and woody plants less than 3.28 ft tall.		
10					We advertise Allowed wines prostor them 2.20 ft in		
44					Woody vine – All woody vines greater than 3.28 ft in height.		
12.					noight.		
12	<u> </u>	87% :	= Total Co				
	40 5						
	50% of total cover: <u>43.5</u>	20% of	total cover	<u>17.4</u>			
Woody Vine Stratum (Plot size:	<u>30 ft r</u>)						
_{1.} Rubus trivialis		10	 ✓ 	FACU			
2		5	~	FACU			
3							
4	<u> </u>						
5		150/			Hydrophytic		
			= Total Co		Vegetation Present? Yes <u>Ves</u> No		
	50% of total cover: 7.5	20% of	total cover	<u>3.0</u>			
Remarks: (If observed, list morp	hological adaptations belo	w).					

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the indic	ator or confirm	n the absence o	f indicator	rs.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)	<u>% Ty</u>	/pe ¹ Loc ²	Texture		Remarks	
0 - 2	10YR 2.5/2	100		<u> </u>		Silt			
2 - 16	10YR 4/3	100				Silty Clay			
				· · · · · · · · · · · · · · · · · · ·					
				<u> </u>					
_									
-									
·						<u> </u>			
-									
	oncentration, D=Dep				nd Grains.			ning, M=Matrix.	
	Indicators: (Applic	able to all Li				_		natic Hydric Soils ³ :	
Histosol	. ,				58) (LRR S, T, I		ıck (A9) (L l		
	pipedon (A2)			Irface (S9) (LR			ick (A10) (I	•	
Black Hi	()			y Mineral (F1) ed Matrix (F2)	(LRR O)			8) (outside MLRA 15	
	n Sulfide (A4) Layers (A5)		Depleted Ma					in Soils (F19) (LRR P, ₋oamy Soils (F20)	3, 1)
	Bodies (A6) (LRR P	тт	Redox Dark	. ,			A 153B)		
	icky Mineral (A7) (L		=	rk Surface (F7))		ent Materia	al (TF2)	
	esence (A8) (LRR L		Redox Depre		/			Surface (TF12)	
	ick (A9) (LRR P, T)	·)	Marl (F10) (L	. ,			xplain in R	· · · ·	
	d Below Dark Surfac	e (A11)		hric (F11) (ML	RA 151)	、	•	,	
Thick Da	ark Surface (A12)		Iron-Mangan	ese Masses (F	12) (LRR O, P	, T) ³ Indicat	tors of hydi	rophytic vegetation and	I
Coast P	rairie Redox (A16) (I	MLRA 150A)	Umbric Surfa	ace (F13) (LRR	R P, T, U)	wetla	nd hydrolo	gy must be present,	
	lucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (MLRA	151)	unles	s disturbed	d or problematic.	
	eleyed Matrix (S4)				RA 150A, 150B)				
	edox (S5)				(F19) (MLRA 1 4				
	Matrix (S6)		Anomalous E	Bright Loamy S	Soils (F20) (MLF	RA 149A, 153C, 1	153D)		
	rface (S7) (LRR P, S								
_	_ayer (if observed)								
Туре:									,
	ches):					Hydric Soil P	resent?	Yes No	
Remarks:									

Project/Site: Port of Little Rock	City/Co	unty: Pulaski County		Sampling Date: 2023-03-07		
Applicant/Owner: Port of Little Rock	icant/Owner: Port of Little Rock					
	Section					
Landform (hillslope, terrace, etc.): Depression	Local re	elief (concave, convex, no	_{ne):} Concave	Slope (%): 1		
Subregion (LRR or MLRA): P 133B		•		Datum: WGS 84		
Soil Map Unit Name: RmA - Rilla silt Ioam, 0			_NWI classificat			
Are climatic / hydrologic conditions on the site typ		s 🖌 No (If				
Are Vegetation, Soil, or Hydrology				resent? Yes <u>^</u> No		
Are Vegetation, Soil, or Hydrology			lain any answer			
SUMMARY OF FINDINGS – Attach si			•			
Hydrophytic Vegetation Present? Yes _	✓ No					
	V No	Is the Sampled Area		N		
	✓ No	within a Wetland?	res	No		
Remarks:						
Linear depression.						
HYDROLOGY						
Wetland Hydrology Indicators:		<u>Si</u>		tors (minimum of two required)		
Primary Indicators (minimum of one is required;	7	L	Surface Soil (
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)			
$\square High Water Table (A2) \qquad \square$	Marl Deposits (B15) (LRR		-			
Saturation (A3)	Hydrogen Sulfide Odor (C		Moss Trim Lir			
	Oxidized Rhizospheres alc Presence of Reduced Iron		Crayfish Burn	Vater Table (C2)		
Sediment Deposits (B2) Drift Deposits (B3)	Recent Iron Reduction in T		-	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Ined 3013 (00)	Geomorphic I			
Iron Deposits (B5)	Other (Explain in Remarks		Shallow Aquit			
Inundation Visible on Aerial Imagery (B7)		,	FAC-Neutral			
Water-Stained Leaves (B9)		Ī	=	oss (D8) (LRR T, U)		
Field Observations:						
Surface Water Present? Yes 🖌 No	Depth (inches): 12+					
Water Table Present? Yes No	Depth (inches):					
	✓ Depth (inches):	Wetland Hyd	drology Present	t? Yes 🖌 No		
(includes capillary fringe) Describe Recorded Data (stream gauge, monito	pring well, aerial photos, previ	ous inspections), if availa	ble:			
		. ,				
Remarks:						

T OLI (DI LI 20 ft r		Dominant		Dominance Test worksheet:			
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>)	-	Species?		Number of Dominant Species That Are OBL, FACW, or FAC: _4 (A)			
1 2							
3.				Total Number of Dominant Species Across All Strata: 4 (B)			
4							
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)			
6				\ \ \ \ \ \ \			
7				Prevalence Index worksheet:			
8				Total % Cover of: Multiply by: OBL species 20 x 1 = 20			
	:	= Total Co	ver				
50% of total cover:	20% of	total cover	r:	FACW species 5 x 2 = 10 FAC species 0 x 3 = 0			
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species0 $x 3 = 0$ FACU species0 $x 4 = 0$			
1			·	UPL species 0 x 5 = 0			
2				Column Totals: 25 (A) 30 (B)			
3							
4				Prevalence Index = $B/A = 1.2$			
5				Hydrophytic Vegetation Indicators:			
6				1 - Rapid Test for Hydrophytic Vegetation			
7				2 - Dominance Test is >50%			
8				 ☐ 3 - Prevalence Index is ≤3.0¹ ☐ Problematic Hydrophytic Vegetation¹ (Explain) 			
50% of total cover	= Total Cover 50% of total cover: 20% of total cover:						
Herb Stratum (Plot size: 15 ft r)	20% 01		•	1			
1 Ludwigia alternifolia	10	V	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
2. Ranunculus sp.	10	-		Definitions of Four Vegetation Strata:			
3 Carex sp.	5	~	·				
4. Juncus effusus	5	~	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of			
5. Rorippa sylvestris	5	~	OBL	height.			
6. Rumex verticillatus	5	~	FACW	Sapling/Shrub – Woody plants, excluding vines, less			
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
8				Herb – All herbaceous (non-woody) plants, regardless			
9				of size, and woody plants less than 3.28 ft tall.			
10				Woody vine – All woody vines greater than 3.28 ft in			
11				height.			
12							
		= Total Co					
50% of total cover: <u>20</u>	20% of	total cover	r: <u>8</u>				
Woody Vine Stratum (Plot size: 30 ft r)							
1							
2							
3							
4							
5				Hydrophytic Vegetation			
		= Total Co		Present? Yes <u>V</u> No			
50% of total cover:		total covel	n:				
Remarks: (If observed, list morphological adaptations bel	ow).						

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix			x Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
-									
-									
-									
						<u> </u>			
-									
-									
-									
¹ Type: C=C	oncentration, D=De	pletion. RM=	Reduced Matrix. M	S=Maske	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.	
	Indicators: (Appli							for Problematic Hydric Soils ³ :	
Histosol			Polyvalue Be			ррети		/luck (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su					Auck (A10) (LRR S)	
	stic (A3)		Loamy Muck	-		(0)		ed Vertic (F18) (outside MLRA 150A,B)	
	en Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F19) (LRR P, S, T)	
	d Layers (A5)		Depleted Ma					alous Bright Loamy Soils (F20)	
	Bodies (A6) (LRR I		Redox Dark					RA 153B)	
	ucky Mineral (A7) (L		Depleted Da	rk Surface	e (F7)			arent Material (TF2)	
Muck Pr	esence (A8) (LRR	U)	Redox Depre	· ·	8)		L Very S	hallow Dark Surface (TF12)	
📃 1 cm Mu	uck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			✓ Other	(Explain in Remarks)	
Depleted	d Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)			
Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	T) ³ Indic	ators of hydrophytic vegetation and	
Coast P	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ace (F13)	(LRR P, T	, U)	wet	land hydrology must be present,	
	lucky Mineral (S1)		Delta Ochric					ess disturbed or problematic.	
	Gleyed Matrix (S4)	(, _, _,	Reduced Ve			0A 150B)			
	Redox (S5)		Piedmont Flo				۹۸)		
	Matrix (S6)							152D)	
	· · /	ст. 1)		Singht Loa	my Solis (A 149A, 153C	, 155D)	
	rface (S7) (LRR P,						T		
Restrictive	Layer (if observed):							
Туре:									
Depth (in	ches):						Hydric Soil	Present? Yes <u>V</u> No	
Remarks:									
			•1						
No pit d	ug due to in	undatior	i; solls assu	med h	ydric.				

Project/Site: Port of Little Rock	City/County:		Sampling Date: 2023-03-14				
Applicant/Owner: Port of Little Rock		State:	Sampling Point: SP-49				
l'anna Damar		Section, Township, Range:					
• • • •	Local relief (conc		e Slope (%): 1				
Subregion (LRR or MLRA):							
Soil Map Unit Name:			ation:				
Are climatic / hydrologic conditions on the site typical for							
Are Vegetation, Soil, or Hydrology							
Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology		(If needed, explain any answe					
SUMMARY OF FINDINGS – Attach site ma							
Hydric Soil Present? Yes 🔽	No Is the Sar No within a V	npled Area Vetland? Yes <u>/</u>	No				
Remarks:							
Linear depression.							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)				
High Water Table (A2) Marl Saturation (A3) Hydu Water Marks (B1) Oxid Sediment Deposits (B2) Press Drift Deposits (B3) Record Algal Mat or Crust (B4) Thin	atic Fauna (B13) Deposits (B15) (LRR U) rogen Sulfide Odor (C1) lized Rhizospheres along Living ence of Reduced Iron (C4) ent Iron Reduction in Tilled Soils Muck Surface (C7) er (Explain in Remarks)	Cfabric Cfabri	Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Position (D2) hitard (D3)				
Field Observations:							
	Depth (inches): Depth (inches):	Wetland Hydrology Presen	nt? Yes No				
Remarks:							

00 ()		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species
1. Celtis laevigata	15	<u> </u>	FACW	That Are OBL, FACW, or FAC: <u>5</u> (A)
2. Fraxinus nigra	5	<u> </u>	FACW	Total Number of Dominant
3. Gleditsia triacanthos	5	<u> </u>	FAC	Species Across All Strata: 5 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	25%	= Total Cov	er	OBL species 0 $x = 0$
50% of total cover: 12.5	20% of	total cover:	5.0	FACW species 25 x 2 = 50
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 10 x 3 = 30
1. Cornus drummondii	5	~	FAC	FACU species $0 x 4 = 0$
2				UPL species <u>0</u> x 5 = <u>0</u>
3				Column Totals: <u>35</u> (A) <u>80</u> (B)
				2.00
4				Prevalence Index = B/A = 2.29
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				∠ 2 - Dominance Test is >50%
8				\Box 3 - Prevalence Index is $\leq 3.0^1$
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2.5	20% of	total cover	1.0	
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Cyperus strigosus	5	 ✓ 	FACW	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				
10				Woody vine – All woody vines greater than 3.28 ft in
11	·			height.
12	5%			
		Total Cov		
50% of total cover: <u>2.5</u>	20% of	total cover:	1.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation
50% of total cover:	20% of	total cover:		Present? Yes V No
Remarks: (If observed, list morphological adaptations belo	w).			1
	,			

Profile Descri	ption: (Describe	to the depth	needed to docum	ent the i	ndicator	or confirm t	the absence	of indicators.))	
Depth	Matrix			Features	8					
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	I	Remarks	
-										
						<u> </u>				
-										
-										
							2			
			educed Matrix, MS			ains.		PL=Pore Lining	•	
		able to all LH	Rs, unless other					for Problemat	•	iolis":
Histosol (A			Polyvalue Bel					luck (A9) (LRR		
Histic Epip			Thin Dark Su					luck (A10) (LRI		
Black Histi	()		Loamy Mucky			(0)		ed Vertic (F18)		
	Sulfide (A4)		Loamy Gleye		-2)			ont Floodplain S		
	.ayers (A5) odies (A6) (LRR P	.T IN	Depleted Mat	• •	6)			lous Bright Loa RA 153B)	arriy Solis (r	-20)
-	y Mineral (A7) (LRR P		Depleted Dark	```	,			arent Material (
	sence (A8) (LRR L		Redox Depre					hallow Dark Su		2)
	(A9) (LRR P, T)	')	Marl (F10) (L	•)			Explain in Rem		-)
	Below Dark Surfac	e (A11)	Depleted Och		(MLRA 1	51)			iunic)	
= .	Surface (A12)	()	Iron-Mangane) ³ Indica	ators of hydrop	hytic veget	ation and
	rie Redox (A16) (I	MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	, U)	wetl	and hydrology	must be pr	esent,
Sandy Mu	cky Mineral (S1) (LRR O, S)	Delta Ochric	F17) (ML	RA 151)		unle	ess disturbed or	r problemat	ic.
Sandy Gle	yed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 15	0A, 150B)				
Sandy Red	dox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 149	A)			
Stripped N	latrix (S6)		Anomalous B	right Loar	ny Soils (F20) (MLRA	149A, 153C,	153D)		
	ace (S7) (LRR P, S	-								
Restrictive La	yer (if observed)	:								
Туре:			_							
Depth (inch	es):						Hydric Soil	Present? Ye	es 🖌	No
Remarks:										
No pit du	a due to inu	undation	; hydric soil	s assu	med.					
	9 4 4 6 1 6 1 1 6									

Project/Site: Port of Little Rock			City	//County: Pula	ski County	,	Sampling Date:	2023-03-14	
Applicant/Owner: Port of Little Roo	ck			State: Arkansas_ Sampling Point: SP-50					
Investigator(s): Jimmy Rogers			Section, Township, Range: S34 T1N R11W						
Landform (hillslope, terrace, etc.): Fla	t		Loc	al relief (conca	ve. convex. r	none): None	Slo	oe (%): 1	
Subregion (LRR or MLRA): P 133B						92.17640348			
Soil Map Unit Name: RmA - Rilla si						NWI classifica			
Are climatic / hydrologic conditions on				Yes 🖌 N	o (I				
Are Vegetation, Soil, c						Circumstances" p		✓ No	
Are Vegetation, Soil, c						xplain any answe			
SUMMARY OF FINDINGS -								eatures, etc.	
Hydrophytic Vegetation Present?	Yes	No	~						
Hydric Soil Present?				Is the Sam		Yes			
Wetland Hydrology Present?	Yes			within a We	etiand ?	res	No	_	
Maintained field.									
HYDROLOGY									
Wetland Hydrology Indicators:					-	Secondary Indica	tors (minimum o	f two required)	
Primary Indicators (minimum of one	is required; chec	k all that	apply)			Surface Soil			
Surface Water (A1)			una (B13)		÷		getated Concave	Surface (B8)	
High Water Table (A2)			sits (B15) (L Sulfide Odor		-	Drainage Pat			
Saturation (A3)		-		s along Living R	conts(C3)	Moss Trim Li	Water Table (C2)		
Sediment Deposits (B2)			f Reduced		.0013 (00)	Crayfish Buri			
Drift Deposits (B3)				in Tilled Soils (C6)		sible on Aerial In	nagery (C9)	
Algal Mat or Crust (B4)	🛄 Thi	n Muck	Surface (C7	7)	_	Geomorphic	Position (D2)		
Iron Deposits (B5)		ier (Exp	lain in Rem	arks)		Shallow Aqui			
Inundation Visible on Aerial Ima	gery (B7)					FAC-Neutral	()		
Water-Stained Leaves (B9)						Sphagnum m	noss (D8) (LRR 1	, U)	
Field Observations: Surface Water Present? Yes	No 🖌	Donth	(inchos):						
	No 🗸								
	No 🖌				Wetland Hy	ydrology Presen	t? Yes	No 🖌	
(includes capillary fringe)			. , _						
Describe Recorded Data (stream ga	uge, monitoring v	vell, aeri	ial photos, p	previous inspect	ions), if avail	lable:			
Remarks:									

The second		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
1 2				That Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant Species Across All Strata: 1 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species 0 $x = 0$
50% of total cover:	20% of	total cover:		FACW species $\frac{0}{7}$ x 2 = $\frac{0}{21}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{7}{75}$ $x_3 = \frac{21}{200}$
1				FACU species $\frac{75}{0}$ x 4 = $\frac{300}{0}$
2				UPL species 0 x 5 = 0
3	<u> </u>			Column Totals: <u>82</u> (A) <u>321</u> (B)
4				Prevalence Index = B/A = <u>3.91</u>
5	·			Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	·			2 - Dominance Test is >50%
8	·			□ 3 - Prevalence Index is $\leq 3.0^{1}$
		Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover:		
Herb Stratum (Plot size: 15 ft r)	~~			¹ Indicators of hydric soil and wetland hydrology must
1. Lolium perenne	60	<u> </u>	FACU	be present, unless disturbed or problematic.
2. Geranium carolinianum	20			Definitions of Four Vegetation Strata:
3. Lolium perenne	<u>15</u> 5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Rumex crispus 5 Viola bicolor	2		FAC FAC	more in diameter at breast height (DBH), regardless of height.
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				
10 11				Woody vine – All woody vines greater than 3.28 ft in
12.	·			height.
12.	102%	= Total Cov	er	
50% of total cover: 51.0				
Woody Vine Stratum (Plot size: 30 ft r)	20% 01			
1 /				
2				
3				
4				
5				Hudron hutio
		= Total Cov	er	Hydrophytic Vegetation
50% of total cover:				Present? Yes No V
Remarks: (If observed, list morphological adaptations belo				
	,.			

Profile Description	(Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	n the absence	of indicato	ors.)	
Depth	Matrix			x Features	8					
	or (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-2 5YR	4/3	100					Silt			
2 - 16 5YR	5/4	100					Silt Loam			
		· –								
		·								
		·								
		·								
-										
		·								
<u> </u>							2			
¹ Type: C=Concentra Hydric Soil Indicate						ains.			ining, M=Matr matic Hydric	
Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers Organic Bodies 5 cm Mucky Mir Muck Presence 1 cm Muck (A9) Depleted Below Thick Dark Surfi Coast Prairie Re Sandy Mucky M Sandy Gleyed M Sandy Redox (S) e (A4) s (A5) (A6) (LRR P eral (A7) (LR (A8) (LRR U (LRR P, T) Dark Surface ace (A12) edox (A16) (N ineral (S1) (L Matrix (S4)	RR P, T, U)) e (A11) //LRA 150A)	 Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Redox Dark S Depleted Dai Redox Depres Marl (F10) (L Depleted Ocl Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo 	urface (S9) y Mineral (ed Matrix (I trix (F3) Surface (F rk Surface essions (F8 .RR U) hric (F11) ese Masse ace (F13) ((F17) (ML rtic (F18) ((LRR S, (F1) (LRF F2) 6) (F7) 3) (MLRA 1 2005 (F12) (LRR P, T RA 151) MLRA 15	T, U) 2 O) 51) LRR O, P, 7 U) 50A, 150B)	2 cm M Reduce Piedmo Anomal (MLR Red Pa Very St Other (I T) ³ Indica weth unle	ont Floodpla lous Bright A 153B) rrent Materi nallow Dark Explain in F ators of hyc and hydrolo	(LRR S) 18) (outside ain Soils (F19 Loamy Soils al (TF2) s Surface (TF	12) etation and vresent,
Stripped Matrix	(S6)						A 149A, 153C,	153D)		
Dark Surface (S							1			
Restrictive Layer (i	r observed):									
Туре:										
Depth (inches):							Hydric Soil	Present?	Yes	No <u>v</u>
Remarks:										

Project/Site: Port of Little Rock	City/County: Pulaski Cou	inty	Sampling Date: 2023-03-14
Applicant/Owner: Port of Little Rock			Sampling Point: SP-51
Investigator(s): Jimmy Rogers	Section. Township. Range:	S34 T1N R11W	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conv	ex. none): Concave	Slope (%): 1
Subregion (LRR or MLRA): P 133B Lat: 34.66			Datum: WGS 84
Soil Map Unit Name: RmA - Rilla silt Ioam, 0 to 1 percent slope		NWI classificat	
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation, Soil, or Hydrology significantly			resent? Yes <u><!--</u-->No</u>
Are Vegetation, Soil, or Hydrology algrinicality Are Vegetation, Soil, or Hydrology naturally pro		d, explain any answer	
SUMMARY OF FINDINGS – Attach site map showing			
Hydrophytic Vegetation Present? Yes V No Hydric Soil Present? Yes V No Wetland Hydrology Present? Yes V No Remarks: V V V V	Is the Sampled Are within a Wetland?		No
Linear depression. HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)
Sediment Deposits (B2)) (LRR U) Odor (C1) eres along Living Roots (C3) red Iron (C4) tion in Tilled Soils (C6) (C7) emarks)): <u>12+</u>):	 Drainage Patt Moss Trim Lir Dry-Season V Crayfish Burn Saturation Vis Geomorphic I Shallow Aquit FAC-Neutral 	etated Concave Surface (B8) terns (B10) hes (B16) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) oss (D8) (LRR T, U)
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if	available:	
Remarks:			

		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 2	(A)
2				Total Number of Dominant	
3				Species Across All Strata: 2	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100	(A/B)
6					. ,
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	-
		= Total Co		OBL species $90 \times 1 = 90$	-
50% of total cover:	20% of	total cover		FACW species $0 x 2 = 0$	-
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $0 \times 3 = 0$	_
1,				FACU species $0 x 4 = 0$	_
2				UPL species $0 x 5 = 0$	_
				Column Totals: <u>90</u> (A) <u>90</u>	(B)
3				1.00	
4				Prevalence Index = $B/A = 1.00$	-
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				\square 3 - Prevalence Index is ≤3.0 ¹	
	:	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain	n)
50% of total cover:	20% of	total cover	:		
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology m	nust
1. Alternanthera philoxeroides	70	~	OBL	be present, unless disturbed or problematic.	
2. Ludwigia peploides	20	~	OBL	Definitions of Four Vegetation Strata:	
3			OBL	Tree Meedu plante evoluting vince 2 in (7.0 c	
4				Tree – Woody plants, excluding vines, 3 in. (7.6 c more in diameter at breast height (DBH), regardle	
5				height.	00 01
6					1
				Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall.	less
7					
8				Herb – All herbaceous (non-woody) plants, regar	dless
9				of size, and woody plants less than 3.28 ft tall.	
10			. <u> </u>	Woody vine – All woody vines greater than 3.28	ft in
11				height.	
12					
	90% =	= Total Co	ver		
50% of total cover: 45.0	20% of	total cover	<u>:</u> 18.0		
Woody Vine Stratum (Plot size: 30 ft r)					
1					
2					
3					
4					
5				Hydrophytic Vegetation	
		= Total Co		Present? Yes <u>V</u> No	
50% of total cover:		total cover	: <u> </u>		
Remarks: (If observed, list morphological adaptations belo	w).				

Profile Desc	cription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	the absence o	f indicato	ors.)	
Depth	Matrix		Redo	x Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
-										
-										
						· ·	<u> </u>			
						<u> </u>				
-										
-										
					·					
							<u> </u>			
-										
	oncentration, D=De					ains.			ining, M=Matri	
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless othe	rwise not	ed.)		Indicators f	or Proble	matic Hydric	Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, U)) 📙 1 cm Mu	uck (A9) (L	.RR O)	
Histic E	pipedon (A2)		Thin Dark Su	ırface (S9) (LRR S,	T, U)	2 cm Mu	uck (A10) ((LRR S)	
	istic (A3)		Loamy Muck	-		l O)				MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)					(LRR P, S, T)
	d Layers (A5)		Depleted Ma					-	Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark	`	,			A 153B)		
	ucky Mineral (A7) (L		Depleted Dai					ent Materi	· · ·	0)
	resence (A8) (LRR I	(ר		•	8)				Surface (TF1	2)
	uck (A9) (LRR P, T)	a (A11)	Marl (F10) (L			E4)	Uther (E	Explain in F	Remarks)	
	d Below Dark Surfac ark Surface (A12)	le (ATT)	Depleted Ocl				r) ³ Indica	tore of hve	Irophytic vege	tation and
	rairie Redox (A16) (MI RA 150A)						-	ogy must be p	
	Aucky Mineral (S1) (Delta Ochric			, 0)		•	d or problema	
	Gleyed Matrix (S4)		Reduced Ver			0A. 150B)	unioc			
	Redox (S5)		Piedmont Flo)A)			
	d Matrix (S6)						, 149A, 153C, [,]	153D)		
	Inface (S7) (LRR P, S	S, T, U)	_	0	,			•		
Restrictive	Layer (if observed)	:								
Туре:										
Depth (in	ches):						Hydric Soil P	Present?	Yes 🖌	No
Remarks:	,						-			
	ua duo to ini	undation	, budria aail		umad					
NO pit d	ug due to ini	unuation	; nyune son	s assi	imea.					

Project/Site: Port of Little Rock	City/County: Pulas	ski County	S	Sampling Date: 2023-03-16
Applicant/Owner: Port of Little Rock				Sampling Point: SP-52
Investigator(s): Jimmy Rogers	Section. Township.	Range: S28 T1N	I R11W	
Landform (hillslope, terrace, etc.): Flat	Local relief (concav	e. convex. none):	None	Slope (%): 0
Subregion (LRR or MLRA): P 133B Lat: 34				Datum: WGS 84
Soil Map Unit Name: <u>RmA - Rilla silt Ioam, 0 to 1 percent si</u>	opes		I classificatio	
Are climatic / hydrologic conditions on the site typical for this time c				
Are Vegetation, Soil, or Hydrology significa				esent? Yes <u>/</u> No
Are vegetation, Soil, or Hydrology signification, Soil, or Hydrology naturally				
SUMMARY OF FINDINGS – Attach site map show		f needed, explain a	-	
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes No	Is the Samp	led Area	Yes	
Agricultural field.				
HYDROLOGY				
Wetland Hydrology Indicators:		Second	dary Indicato	rs (minimum of two required)
Primary Indicators (minimum of one is required; check all that approximate structure) Surface Water (A1) Aquatic Fauna High Water Table (A2) Marl Deposits (Saturation (A3) Hydrogen Sulfid Water Marks (B1) Oxidized Rhizo Sediment Deposits (B2) Presence of Reference	(B13) B15) (LRR U) de Odor (C1) spheres along Living Re educed Iron (C4) duction in Tilled Soils (C face (C7) in Remarks) hes): <u>0-1</u> hes): <u>0-1</u> hes): <u>3</u> hes): <u>6</u>	Image: Sum of the second se	Inface Soil Cr parsely Vege ainage Patte poss Trim Line y-Season Wa ayfish Burrow atturation Visil comorphic Po hallow Aquita AC-Neutral To phagnum mos	racks (B6) tated Concave Surface (B8) erns (B10) es (B16) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5) ss (D8) (LRR T, U)
Remarks:				

		Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)	
2 3				Total Number of Dominant Species Across All Strata:1(B)	
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/E	3)
6					<i>`</i>
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
	:	= Total Cov	/er	OBL species 0 $x = 0$	
50% of total cover:	20% of	total cover	:	FACW species $\frac{0}{90}$ x 2 = $\frac{0}{270}$	
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 90 $x_3 = 270$	
1				FACU species 10 $x = 40$	
2				UPL species 0 $x = 0$	
3				Column Totals: <u>100</u> (A) <u>310</u> (B)	,
4				Prevalence Index = B/A = <u>3.10</u>	
5			FAC	Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				3 - Prevalence Index is $\leq 3.0^1$	
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover:	20% of	total cover	:		
Herb Stratum (Plot size: 20 ft r) 1 Andropogon virginicus	90		FAC	¹ Indicators of hydric soil and wetland hydrology must	
	10	<u> </u>	FAC	be present, unless disturbed or problematic.	
2. Cynodon dactylon				Definitions of Four Vegetation Strata:	
3. Paspalum sp.	2			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) c	
4				more in diameter at breast height (DBH), regardless o	f
5				height.	
6				Sapling/Shrub - Woody plants, excluding vines, less	
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regardless	3
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine – All woody vines greater than 3.28 ft in	
11				height.	
12					
	102% :	= Total Cov	ver		
50% of total cover: <u>51.0</u>	20% of	total cover	20.4		
Woody Vine Stratum (Plot size: 30 ft r)					
1					
2					
3					
4					
5				Hydrophytic	
		= Total Cov	ver	Vegetation	
50% of total cover:	20% of	total cover	:	Present? Yes <u>V</u> No	
Remarks: (If observed, list morphological adaptations belo	w).				
	,				

Profile Desc	ription: (Describe		n needed to docu	ment the inc	licator	or confirm	the absence	of indicators	5.)	
Depth	Matrix		Redo	ox Features	4					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	<u>.</u>
0 - 18	10YR 5/3	100					Silt Loam			
-										
-										
-										
-										
-										
	oncentration, D=De	nletion RM=	Reduced Matrix M	S=Masked S	Sand Gra	aine	² Location:	PI =Pore I in	ing, M=Matrix	
	ndicators: (Appli					airið.			atic Hydric S	
					•				-	0113 .
Histosol	. ,			elow Surface				luck (A9) (LR		
	pipedon (A2)			urface (S9) (luck (A10) (L		
Black Hi	· · /		Loamy Muck			0)				LRA 150A,B)
	n Sulfide (A4)		Loamy Gley		2)				n Soils (F19) (
	Layers (A5)		Depleted Ma	. ,				-	oamy Soils (F	20)
	Bodies (A6) (LRR I		=	Surface (F6)				RA 153B)		
	cky Mineral (A7) (L			irk Surface (I				arent Materia	· /	
	esence (A8) (LRR			essions (F8)					Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10) (I				Other (Explain in Re	emarks)	
Depleted	Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11) (N	ILRA 1	51)				
	ark Surface (A12)			nese Masses					ophytic vegeta	
Coast Pi	airie Redox (A16)	(MLRA 150A)	Umbric Surf	ace (F13) (L l	RR P, T	, U)	wet	land hydrolog	y must be pre	esent,
Sandy M	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	: (F17) (MLR	A 151)		unle	ess disturbed	or problemati	с.
Sandy C	leyed Matrix (S4)		Reduced Ve	ertic (F18) (M	LRA 15	0A, 150B)				
Sandy R	edox (S5)		Piedmont Fl	oodplain Soil	ls (F19)	(MLRA 14	9A)			
	Matrix (S6)		Anomalous	Bright Loamy	/ Soils (I	F20) (MLR	A 149A, 153C	, 153D)		
	face (S7) (LRR P,	S, T, U)			, ,	<i>,</i> ,				
	ayer (if observed									
Type:										
	abaa):						Uvdria Cail	Dressent?	Vac	
Depth (ind	cnes):						Hydric Soil	Present?	Yes	No <u> </u>
Remarks:										

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-03						
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: SP-53						
Landform (hillslope, terrace, etc.): Flat							
		·	Datum: WGS 84				
Soil Map Unit Name: RMA - Rilla silt Ioam, 0 to 1 p	percent slopes	NWI classifica					
Are climatic / hydrologic conditions on the site typical fo							
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" r					
Are vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology							
SUMMARY OF FINDINGS – Attach site m		(If needed, explain any answe					
	No Is the Sam	pled Area					
	No within a W	etland? Yes 🗸	No				
Wetland Hydrology Present? Yes <u>V</u> Remarks:	NO						
Agricultural field.							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil	Cracks (B6)				
	atic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)					
	I Deposits (B15) (LRR U)	Drainage Pa					
	rogen Sulfide Odor (C1) dized Rhizospheres along Living F	Moss Trim L	ines (B16) Water Table (C2)				
	sence of Reduced Iron (C4)	Crayfish Bur					
	ent Iron Reduction in Tilled Soils (= '	sible on Aerial Imagery (C9)				
	n Muck Surface (C7)		Position (D2)				
	er (Explain in Remarks)	Shallow Aqu	itard (D3)				
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)				
Field Observations: Surface Water Present? Yes No	Depth (inches): 0.2						
Water Table Present? Yes No							
Saturation Present? Yes <u>Ves</u> No	• • • – – – –	Wetland Hydrology Preser	nt? Yes 🖌 No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous inspec	tions), if available:					
Remarks:							

20.45 -		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2				
3				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				$\begin{array}{c c c c c c c c c c c c c c c c c c c $
		= Total Cov		FACW species 20 $x = 40$
50% of total cover:	20% of	total cover	:	FAC species $\frac{75}{x_3} = \frac{225}{x_2}$
Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>)	_			FACU species $5 \times 4 = 20$
_{1.} Liquidambar styraciflua			FAC	UPL species $0 \times 5 = 0$
2		. <u> </u>		Column Totals: 103 (A) 288 (B)
3				$\frac{100}{(A)} (A) = \frac{100}{(A)} (B)$
4				Prevalence Index = $B/A = 2.80$
5		. <u> </u>		Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$
	5% :	= Total Cov	rer	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2.5	20% of	total cover	1.0	
Herb Stratum (Plot size: 20 ft r)				¹ Indicators of hydric soil and wetland hydrology must
_{1.} Andropogon virginicus	70	~	FAC	be present, unless disturbed or problematic.
2. Solidago gigantea	20	~	FACW	Definitions of Four Vegetation Strata:
3. Cynodon dactylon	5		FACU	The Minister is the standard in the standard of the standard in the standard i
4. Juncus effusus	3		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Ranunculus sp.	1			height.
6				Sanling/Shrub Weady planta avaluding vince loss
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	99%	= Total Cov	rer	
50% of total cover: 49.5				
Woody Vine Stratum (Plot size: 30 ft r)				
1,				
2				
3.				
4				
5				
- J		= Total Cov		Hydrophytic Vegetation
50% of total cover:				Present? Yes <u>V</u> No
			·	
Remarks: (If observed, list morphological adaptations belo	W).			

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the i	indicator	or confirn	n the absence o	of indicato	ors.)		
Depth	Matrix		Redo	x Feature	S						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rem	narks	
0 - 18	10YR 4/2	90	10YR 4/4	10	С	М	Silt Loam				
-											
						·					
						·					
-											
-											
					·						
						·					
-											
			Reduced Matrix, MS			ains.	² Location: I				
Hydric Soil	ndicators: (Applic	cable to all	_RRs, unless other	wise not	ed.)		Indicators f	or Proble	matic H	lydric S	Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L		J) 🛄 1 cm Mւ	uck (A9) (L	.RR O)		
Histic Ep	oipedon (A2)		Thin Dark Su	rface (S9) (LRR S,	T, U)	2 cm Mi	uck (A10)	(LRR S))	
Black Hi	· · /		Loamy Muck			R O)					MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)			•		. ,	(LRR P, S, T)
	l Layers (A5)		Depleted Mat	. ,				ous Bright	Loamy	Soils (I	F20)
-	Bodies (A6) (LRR F		Redox Dark		,		•	A 153B)			
	cky Mineral (A7) (L		Depleted Dar		• •			rent Mater			
	esence (A8) (LRR l	J)	Redox Depre	•	8)			allow Dark		•	2)
	ck (A9) (LRR P, T)	- () ()	Marl (F10) (L			F 4\	U Other (E	Explain in F	Remark	s)	
	Below Dark Surface	ce (ATT)	Depleted Ocl				T) ³ Indiaa	itors of hyd	dronby di	o	tation and
	ark Surface (A12) rairie Redox (A16) (MI DA 150A				•	•	and hydrol		-	
	lucky Mineral (S1) (Delta Ochric			, 0)		ss disturbe	•••	•	
	lleyed Matrix (S4)		Reduced Ver			50A. 150B)				biema	
	edox (S5)		Piedmont Flo								
	Matrix (S6)						RA 149A, 153C,	153D)			
	face (S7) (LRR P,	S, T, U)		J	J (- / (- ,,	,			
	_ayer (if observed)										
Type:											
	ches):						Hydric Soil F	Present?	Yes	~	No
Remarks:											
Remarks.											

Project/Site: Port of Little Rock	_ City/County: Pulaski	County	Sampling Date: 2023-02-20			
Applicant/Owner: Port of Little Rock		State: Arkansas				
Investigator(s): Jimmy Rogers	Section, Township, Ra	ange: S28 T1N R11W				
Landform (hillslope, terrace, etc.): Flat	Local relief (concave,	convex, none): None	Slope (%): 0			
Subregion (LRR or MLRA): P 133B Lat: 34.	· · ·	_ong:92.19003	Datum: WGS 84			
Soil Map Unit Name: RmA - Rilla silt Ioam, 0 to 1 percent sic		NWI classifica				
Are climatic / hydrologic conditions on the site typical for this time of						
Are Vegetation, Soil, or Hydrology significan						
Are Vegetation, Soil, or Hydrology adjunitation		eeded, explain any answer				
SUMMARY OF FINDINGS – Attach site map showi						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	within a Wetla		No			
Remarks:						
Agricultural field.						
HYDROLOGY						
Wetland Hydrology Indicators:	、 、		tors (minimum of two required)			
Primary Indicators (minimum of one is required; check all that appl		Surface Soil (
□ Surface Water (A1) □ Aquatic Fauna (I □ High Water Table (A2) □ Marl Deposits (E	•	Drainage Pat	etated Concave Surface (B8)			
Saturation (A3)		\square Moss Trim Li				
	pheres along Living Root		Vater Table (C2)			
Sediment Deposits (B2)		Crayfish Burr				
	uction in Tilled Soils (C6)		sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Geomorphic Position (D2)				
Iron Deposits (B5) Other (Explain ir	n Remarks)	Shallow Aqui	tard (D3)			
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum m	oss (D8) (LRR T, U)			
Field Observations:						
Surface Water Present? Yes No Depth (inch						
Water Table Present? Yes No 🖌 Depth (inch						
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inch (includes capillary fringe)			t? Yes No			
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspection	s), if available:				
Remarks:						
Only upper layer of soil saturated, likely d	ue to recent rai	nfall therefore	aturation			
discounted as an indicator of wetland hyd	nology.					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
·		= Total Cov		OBL species 0 x 1 = 0
50% of total cover:				FACW species <u>10</u> x 2 = <u>20</u>
Sapling/Shrub Stratum (Plot size: _30 ft r)	20 /0 01			FAC species 85 x 3 = 255
1. Liquidambar styraciflua	5	~	FAC	FACU species <u>10</u> x 4 = <u>40</u>
				UPL species $0 \times 5 = 0$
2				Column Totals: 105 (A) 315 (B)
3				
4				Prevalence Index = $B/A = 3.00$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				☑ 2 - Dominance Test is >50%
8				□ 3 - Prevalence Index is $\leq 3.0^{1}$
	<u>5%</u> :	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2.5	20% of	total cover:	1.0	<u> </u>
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	80	~	FAC	be present, unless disturbed or problematic.
2. Cynodon dactylon	10		FACU	Definitions of Four Vegetation Strata:
3. Solidago gigantea	10		FACW	_
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov		
50% of total cover: 50.0	20% of	total cover	20.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:				Present? Yes V No
Remarks: (If observed, list morphological adaptations belo				
	···).			

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	n the absence	of indicato	ors.)		
Depth	Matrix		Redo	x Features	6						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0 - 4	5Y 5/3	100					Loam				
4 - 18	5Y 2/4	100					Loam				
				·							—
-				·							_
-											
1 Type: C=Co	oncentration, D=Dep	letion RM=R	educed Matrix MS	S=Masked	Sand Gr	ains	² Location	PI =Pore I	ining, M=Matri	ix	
	ndicators: (Applic								matic Hydric		
Histosol ((A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S. T. U	ر (ر	luck (A9) (L	_RR O)		
	pipedon (A2)		Thin Dark Su					luck (A10)			
Black His			Loamy Muck						18) (outside l	MLRA 150A,	,B)
Hydroge	n Sulfide (A4)		Loamy Gleye						ain Soils (F19)		
Stratified	I Layers (A5)		Depleted Mat	trix (F3)			L Anoma	lous Bright	Loamy Soils (F20)	
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F	6)		· ·	A 153B)			
	cky Mineral (A7) (Ll		Depleted Dar	k Surface	(F7)			arent Mater			
	esence (A8) (LRR L	l)	Redox Depre		B)				k Surface (TF1	2)	
	ck (A9) (LRR P, T)		Marl (F10) (L				U Other (Explain in F	Remarks)		
	Below Dark Surfac	e (A11)					T) ³ las ellas			tation and	
	rk Surface (A12)							•	drophytic vege		
	airie Redox (A16) (I lucky Mineral (S1) (I		Umbric Surfa			, 0)		-	ogy must be p ed or problema		
	lleyed Matrix (S4)	LKK 0, 3 <i>j</i>	Reduced Ver			0A 150B)		:55 นเรเนเมต			
	edox (S5)		Piedmont Flo								
	Matrix (S6)						A 149A, 153C,	153D)			
	face (S7) (LRR P, S	S, T, U)		g.n _oan			,,	,			
	ayer (if observed)										
Type:											
	ches):						Hydric Soil	Present?	Yes	No 🖌	
Remarks:							,				
r tornanto.											

Project/Site: Port of Little Rock	City/County:		Sampling Date: 2023-02-20		
Applicant/Owner: Port of Little Rock		State:			
	Section, Township				
	Local relief (concav		Slope (%); 0		
Subregion (LRR or MLRA):					
Soil Map Unit Name: Rilla silt Ioam, 0 to 1 percei		NWI classifica			
Are climatic / hydrologic conditions on the site typical f					
Are Vegetation, Soil, or Hydrology					
Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology		If needed, explain any answe			
SUMMARY OF FINDINGS – Attach site r					
Hydric Soil Present? Yes 🖌	No Is the Sam No within a We		No		
Agricultural field.					
HYDROLOGY		Casandan (India			
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check	ok all that apply)	_	ators (minimum of two required)		
	juatic Fauna (B13)	Surface Soil	getated Concave Surface (B8)		
	arl Deposits (B15) (LRR U)	Drainage Pa			
	vdrogen Sulfide Odor (C1)	Moss Trim L			
Water Marks (B1)	kidized Rhizospheres along Living R	oots (C3) 🔲 Dry-Season	Water Table (C2)		
Sediment Deposits (B2)	esence of Reduced Iron (C4)	Crayfish Bur	rows (C8)		
	ecent Iron Reduction in Tilled Soils (isible on Aerial Imagery (C9)		
	in Muck Surface (C7)	= '	Position (D2)		
	her (Explain in Remarks)	Shallow Aqu			
Inundation Visible on Aerial Imagery (B7) Vater-Stained Leaves (B9)		 ✓ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U) 			
Field Observations:					
Surface Water Present? Yes 🖌 No	Depth (inches): 0-4				
Water Table Present? Yes 🖌 No	Depth (inches): <u>3</u>				
Saturation Present? Yes <u>Ves</u> No	Depth (inches): 0	Wetland Hydrology Preser	nt? Yes 🖌 No		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspect	ons), if available:			
Remarks:					

The second s		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
1 2				、
3				Total Number of Dominant Species Across All Strata: 0 (B)
4				
5.				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: <u>NaN</u> (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
···		= Total Cov	/er	OBL species 5 $x_1 = 5$
50% of total cover:				FACW species <u>2</u> x 2 = <u>4</u>
Sapling/Shrub Stratum (Plot size: _30 ft r)	20 /0 0		·	FAC species 97 x 3 = 291
1. Liquidambar styraciflua	5	~	FAC	FACU species $0 x 4 = 0$
2				UPL species $0 x 5 = 0$
				Column Totals: <u>104</u> (A) <u>300</u> (B)
3				2.00
4				Prevalence Index = B/A = 2.88
5				Hydrophytic Vegetation Indicators:
6				☐ 1 - Rapid Test for Hydrophytic Vegetation
7				\Box 2 - Dominance Test is >50%
8		= Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 2.5				Problematic Hydrophytic Vegetation ¹ (Explain)
	20% 01	total cover	1.0	
<u>Herb Stratum</u> (Plot size: <u>20 ft r</u>) 1. Andropogon virginicus	90	~	FAC	¹ Indicators of hydric soil and wetland hydrology must
2. Juncus effusus	5		OBL	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
3. Rumex crispus 4. Cyperus pseudovegetus	2 2		FAC FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5 Ranunculus sp.	<u> </u>		FACW	more in diameter at breast height (DBH), regardless of height.
	<u> </u>			noight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
50.0		= Total Cov		
50% of total cover: 50.0	20% of	total cover	20.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1			·	
2			·	
3				
4				
5				Hydrophytic
	:	= Total Cov	/er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes Vo No
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirn	n the absence of in	ndicators.)
Depth	Matrix			<u>x Feature</u>		. 2	- (
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹		Texture	Remarks
0-4	5YR 5/2	95	5YR 4/6	5	<u>C</u>	M	Loam	
4 - 18	5YR 6/2	85	5YR 5/6	15	С	M	Loam	
-								
-								
		- <u></u>						
						·	·	
- ¹ Turney 0-0								-Deve Living M-Metric
			Reduced Matrix, MS LRRs, unless other			ains.		=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
			Polyvalue Be			RRSTI		(A9) (LRR O)
	oipedon (A2)		Thin Dark Su		· / ·			(A10) (LRR S)
Black Hi			Loamy Muck					/ertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)		Piedmont F	Floodplain Soils (F19) (LRR P, S, T)
	l Layers (A5)		Depleted Ma	. ,				s Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark	•	,			
	cky Mineral (A7) (Li		Depleted Dar					t Material (TF2) ow Dark Surface (TF12)
	esence (A8) (LRR U ick (A9) (LRR P, T)	')	Marl (F10) (L		0)			plain in Remarks)
	Below Dark Surfac	e (A11)	Depleted Ocl		(MLRA 1	51)		
Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	ses (F12)	LRR O, P,	T) ³ Indicator	s of hydrophytic vegetation and
	rairie Redox (A16) (I					', U)		l hydrology must be present,
	lucky Mineral (S1) (I	LRR O, S)	Delta Ochric					disturbed or problematic.
	edox (S5)		Reduced Ver					
	Matrix (S6)			•	• •	•	A 149A, 153C, 153	30)
	rface (S7) (LRR P, S	6, T, U)				. 20) (21		,
	_ayer (if observed)	-						
Туре:								
Depth (inc	ches):						Hydric Soil Pre	sent? Yes 🖌 No
Remarks:								

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-02-20
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Township		
Landform (hillslope, terrace, etc.):			Slope (%): 0-20
Subregion (LRR or MLRA): P 133B Lat:			Datum: WGS 84
Soil Map Unit Name: RmA - Rilla silt Ioam, 0 to 1 percei		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this ti			
Are Vegetation <u>'</u> , Soil <u>'</u> , or Hydrology <u>'</u> sigr			
Are Vegetation, Soil, or Hydrology as	-	If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map sh			
Hydrophytic Vegetation Present? Yes <u>V</u> No		oled Area	
Hydric Soil Present? Yes _ ✓ No _ Wetland Hydrology Present? Yes _ ✓ No _		etland? Yes 🗸	No
Wetland Hydrology Present? Yes <u>Ves</u> No			
Former borrow area.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all tha		Surface Soil	Cracks (B6)
Surface Water (A1)			getated Concave Surface (B8)
	sits (B15) (LRR U)	Drainage Pa	
	Sulfide Odor (C1) hizospheres along Living R	Doots (C3) Dry-Season	Water Table (C2)
	of Reduced Iron (C4)	Crayfish Bur	
	n Reduction in Tilled Soils (=	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Surface (C7)	Geomorphic	Position (D2)
	lain in Remarks)	Shallow Aqu	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9) Field Observations:		C Spnagnum n	noss (D8) (LRR T, U)
Surface Water Present? Yes <u>Ves</u> No <u>Depth</u>	(inches) [.] 0-24+		
Water Table Present? Yes No Depth			
Saturation Present? Yes No 🖌 Depth		Wetland Hydrology Preser	nt? Yes 🖌 No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aei			
Describe Recorded Data (stream gauge, monitoring weil, aei	iai priotos, previous inspect	ions), il avaliable.	
Remarks:			

Sampling Point: T1-03

20.4	Absolute Domir		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r) 1.)	<u>% Cover</u> Spec		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2 3			Total Number of Dominant Species Across All Strata: <u>1</u> (B)
4 5			Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6			
7			Prevalence Index worksheet:
8			Total % Cover of: Multiply by:
	= Total	Cover	OBL species 35 $x_1 = 35$
50% of total cover:	20% of total co	over:	FACW species 0 $x 2 = 0$ FAC species 0 $x 3 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)			
1			FACU species 0 $x = 0$
2			UPL species 0 x 5 = 0
3			Column Totals: <u>35</u> (A) <u>35</u> (B)
4			Prevalence Index = $B/A = 1.00$
5			Hydrophytic Vegetation Indicators:
6			1 - Rapid Test for Hydrophytic Vegetation
7			2 - Dominance Test is >50%
8			3 - Prevalence Index is $\leq 3.0^{1}$
	= Total		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total co	over:	
Herb Stratum (Plot size: <u>15 ft r</u>) 1. Nelumbo lutea	30 🗸	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Juncus effusus	5	OBL	Definitions of Four Vegetation Strata:
3			
4			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5			height.
6			Sapling/Shrub – Woody plants, excluding vines, less
7			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10 11			Woody vine – All woody vines greater than 3.28 ft in height.
12			noight.
	35% = Total	Cover	
50% of total cover: 17.			
Woody Vine Stratum (Plot size: 30 ft r)	20% 01 10101 00		
1			
2			
3			
4			
5			Hydrophytic
	= Total		Vegetation Present? Yes <u>Ves</u> No
50% of total cover:		over:	
Remarks: (If observed, list morphological adaptations b	elow).		

Profile Desc	ription: (Describe	to the depth	needed to	document	the indicat	or or confirm	the absence	e of indicators.)		
Depth	Matrix			Redox Fe	atures					
(inches)	Color (moist)	%	Color (mois	<u>st) %</u>	Туре	e^1 Loc ²	Texture	Remarks		
-										
-										
·										
-				·						
-										
-										
_										
-										
	oncentration, D=Dep					Grains.		n: PL=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators: (Applic	able to all Ll	RRs, unless	otherwis	e noted.)		Indicator	rs for Problematic Hydric Soils ³ :		
Histosol (. ,		- ·		•) (LRR S, T, U		Muck (A9) (LRR O)		
· · ·	ipedon (A2)				e (S9) (LRR			Muck (A10) (LRR S)		
Black His	. ,				neral (F1) (L	RR O)		uced Vertic (F18) (outside MLRA 150A,B)		
	n Sulfide (A4)		<u> </u>	Gleyed M	. ,			mont Floodplain Soils (F19) (LRR P, S, T)		
	Layers (A5)			ed Matrix (,			nalous Bright Loamy Soils (F20)		
	Bodies (A6) (LRR P		=	Dark Surfa	• •			LRA 153B)		
	cky Mineral (A7) (LF				urface (F7)			Parent Material (TF2)		
	esence (A8) (LRR U)		Depressio	· · /			Shallow Dark Surface (TF12)		
	ck (A9) (LRR P, T)	o (A11)		10) (LRR		1 4 5 4)		r (Explain in Remarks)		
	l Below Dark Surfac Irk Surface (A12)	e (ATT)	= .		(F11) (MLR/ Maaaaa (E1)	2) (LRR O, P,	T) ³ Ind	licators of hydrophytic vegetation and		
	airie Redox (A12)		_	-	F13) (LRR F		•	etland hydrology must be present,		
	lucky Mineral (S1) (I				7) (MLRA 15			nless disturbed or problematic.		
· ·	leyed Matrix (S4)	_RR 0, 3)		•	, .	150A, 150B)		liess disturbed of problematic.		
· ·	edox (S5)					19) (MLRA 14				
	Matrix (S6)			•		ls (F20) (MLR		C. 153D)		
	face (S7) (LRR P, S	S. T. U)		ious Brigh	C Louiny Col			0,1000)		
	ayer (if observed):									
Type:	,									
Depth (inc	thes).						Hydric So	nil Present? Yes 🖌 No		
Remarks:							Tryunc 30			
No soil pit due to inundation; assumed hydric.										

Project/Site: Port of Little Rock	City/County: Pu	Sampling Date: 2023-02-20				
Applicant/Owner: Port of Little Rock		Sampling Point: T1-04				
	Section, Township, Range: S28 T1N R11W					
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope (%): 1					
		Long: -92.18792				
Soil Map Unit Name: RmA - Rilla silt Ioam, 0 to			ation: none			
Are climatic / hydrologic conditions on the site typica						
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe				
SUMMARY OF FINDINGS – Attach site			,			
		,	, p ,,			
Hydrophytic Vegetation Present? Yes	No Is the Sa	Impled Area				
	No within a	Wetland? Yes V	′No			
Remarks:						
Agricultural field.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is required; che	eck all that apply)	Surface Soil	Cracks (B6)			
Surface Water (A1)	quatic Fauna (B13)	Sparsely Ve	getated Concave Surface (B8)			
	/larl Deposits (B15) (LRR U)	📙 Drainage Pa	tterns (B10)			
	lydrogen Sulfide Odor (C1)	🔟 Moss Trim L	. ,			
	Dxidized Rhizospheres along Living		Water Table (C2)			
	Presence of Reduced Iron (C4)	Crayfish Bur	. ,			
	Recent Iron Reduction in Tilled Soil		isible on Aerial Imagery (C9)			
	hin Muck Surface (C7) Dther (Explain in Remarks)	Geomorphic Shallow Aqu	Position (D2)			
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral				
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):					
	Depth (inches):					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous insp	ections), if available:				
Remarks:						
Sampling Point: T1-04

20.4		Dominan		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r) 1.)		Species		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>1</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6			·	Prevalence Index worksheet:
7			·	Total % Cover of: Multiply by:
8			·	OBL species 0 $x_1 = 0$
		= Total Co		FACW species 17 x 2 = 34
50% of total cover:	20% of	f total cove	r:	FAC species 82 x 3 = 246
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 0 $x = 0$
1				$\frac{1}{1} \text{ Proves species} = \frac{1}{2} Pro$
2				
3				Column Totals: <u>99</u> (A) <u>280</u> (B)
4				Prevalence Index = $B/A = 2.83$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				\checkmark 2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is <3.0 ¹
		= Total Co		
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
20.64 -	2070 0		··	
Herb Stratum (Plot size: 2011 r) 1 Andropogon virginicus	80	~	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Solidago gigantea	<u>00</u>		FACW	
	2		FACW	Definitions of Four Vegetation Strata:
3. Geranium sp.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Juncus tenuis	2		FAC	more in diameter at breast height (DBH), regardless of
5. Juncus torreyi	2		FACW	height.
6. Carex sp.	1		·	Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	102%	= Total Co	ver	
50% of total cover: 51.	0 20% of	f total cove	_{r:} 20.4	
Woody Vine Stratum (Plot size: 30 ft r)				
1,				
2				
3				
4				
5				Hydrophytic
		= Total Co		Vegetation Present? Yes <u>Ves</u> No
50% of total cover:		total cove	r:	
Remarks: (If observed, list morphological adaptations b	elow).			

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature		. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 3	5YR 6/2	90	5YR 6/4	10	C	Μ	Loamy Sand	
3 - 18	5YR 7/1	80	5YR 5/6	20	С	М	Sand	
-		·						
-								
-								
		- <u> </u>			·			
		·						
- ¹ Turney, C=C				Maaka			21	
			Reduced Matrix, MS LRRs, unless other			ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histosol (Polyvalue Be			RR S. T. U	_	luck (A9) (LRR O)
	vipedon (A2)		Thin Dark Su		· / ·			luck (A10) (LRR S)
Black His			Loamy Mucky					ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat					llous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P cky Mineral (A7) (LF		Redox Dark S	•	,			RA 153B)
	esence (A8) (LRR U		Depleted Dar Redox Depre					arent Material (TF2) hallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	,	Marl (F10) (L	•	0)			Explain in Remarks)
	Below Dark Surfac	e (A11)	Depleted Och		(MLRA 1	51)		
	rk Surface (A12)		Iron-Mangane					ators of hydrophytic vegetation and
	airie Redox (A16) (', U)		land hydrology must be present,
	lucky Mineral (S1) (I leyed Matrix (S4)	_RR 0, 5)	Delta Ochric			0A 150B)		ess disturbed or problematic.
	edox (S5)		Piedmont Flo					
	Matrix (S6)			•	• • •	•	A 149A, 153C,	, 153D)
	face (S7) (LRR P, S							
Restrictive L	ayer (if observed):							
Туре:								
Depth (inc	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:								

City/C	City/County: Pulaski County Sampling Date: 2023-02				
· ·		ansas Sampling Point: T1-05			
		assification: none			
Yes <u> </u>	Is the Sampled Area within a Wetland? Yes	s No			
	Secondary	/ Indicators (minimum of two required)			
Aquatic Fauna (B13) Marl Deposits (B15) (LR Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark ery (B7)	R U) Spars C1) Draina along Living Roots (C3) Dry-So on (C4) Crayfi Tilled Soils (C6) Satura Geom Shallo (xs) FAC-N Sphage Sphage	ce Soil Cracks (B6) ely Vegetated Concave Surface (B8) age Patterns (B10) Trim Lines (B16) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) horphic Position (D2) tw Aquitard (D3) Neutral Test (D5) gnum moss (D8) (LRR T, U)			
INO <u>v</u> Depth (Inches):	wetland Hydrology	Present? Yes No			
e, monitoring well, aerial photos, pre	vious inspections), if available:				
	Section Local Lat: 34.68313 loam, 0 to 1 percent slopes e site typical for this time of year? Hydrology significantly disturned Hydrology naturally problemation tach site map showing same Yes No Presence of Reduced Irco Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark ry (B7) No Depth (inches): No Depth (inches): No Depth (inches): No Dept	State: Arka Section, Township, Range: S28 T1N R ² Local relief (concave, convex, none): No Lat: 34.68313 Long: -92.18682 loam, 0 to 1 percent slopes NWI client NWI client NWI client e site typical for this time of year? Yes No (If no, explain any tach site map showing sampling point locations, tran Yes No V Is the Sampled Area Yes No V Yes Yes No V Is the Sampled Area Within a Wetland? Yes Yes No V Is utall? Yes Marl Deposits (B15) (LRR U) Draina Draina Hydrogen Sulfide Odor (C1) Moss Draina Oxidized Rhizospheres along Living Roots (C3) Dry-S Pry-S Presence of Reduced Iron (C4) Crayfi Recent Iron Reduction in Tilled Soils (C6) Satura Thin Muck Surface (C7) Other (Explain in Remarks) Shallo Shallo			

Sampling Point: T1-05

	-		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft 1	<u>r</u>)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)	
2					Total Number of Dominant	
3					Species Across All Strata: <u>1</u> (B)	
4						
5					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/E	3)
6					Prevalence Index worksheet:	
7					Total % Cover of: Multiply by:	
8					$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
		:			FACW species 5 $x = 10$	
	50% of total cover:	20% of	total cover	:	FAC species $80 \times 3 = 240$	
Sapling/Shrub Stratum (Plot siz	e: <u>30 ft r</u>)				FACU species 15 $x = 60$	
1						
2					· · · · · · · · · · · · · · · · · · ·	
3					Column Totals: <u>100</u> (A) <u>310</u> (B)
4					Prevalence Index = $B/A = 3.1$	
5					Hydrophytic Vegetation Indicators:	
6					1 - Rapid Test for Hydrophytic Vegetation	
7					✓ 2 - Dominance Test is >50%	
8.						
			= Total Cov		\square 3 - Prevalence Index is $\leq 3.0^{1}$	
	50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)	
Herb Stratum (Plot size: 15 ft		20 /0 01				
1. Andropogon virginicus	<u> </u>	80	~	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. Cynodon dactylon		15		FACU		
3. Solidago gigantea		5		FACW	Definitions of Four Vegetation Strata:	
					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of	
4					more in diameter at breast height (DBH), regardless of	of
5					height.	
6					Sapling/Shrub – Woody plants, excluding vines, less	;
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8 9					Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.	s
10						
					Woody vine – All woody vines greater than 3.28 ft in	
11 12.					height.	
12		100%	= Total Cov			
	50% of total cover: 50.0					
		20% 01	total cover			
Woody Vine Stratum (Plot size:						
1						
2						
3						
4						
5					Hydrophytic	
			= Total Cov		Vegetation Present? Yes <u>V</u> No	
	50% of total cover:	20% of	total cover	:		
Remarks: (If observed, list mor	phological adaptations belo	w).			·	

Profile Desc	ription: (Describe	to the depth	n needed to docur	ment the	indicator	or confirm	the absence o	of indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	6
0 - 18	5YR 4/4	100					Silty Clay Loam		
-									
_									
						·			
-									
-									
¹ Type: C=Co	oncentration, D=De	oletion, RM=F	Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Ma	trix.
	ndicators: (Applie							or Problematic Hydri	
Histosol ((A1)		Polyvalue Be	elow Surfa	ace (S8) (L	.RR S, T, U	J) 🔲 1 cm Mi	uck (A9) (LRR O)	
Histic Ep	pipedon (A2)		Thin Dark Su				·	uck (A10) (LRR S)	
Black His	stic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduce	d Vertic (F18) (outside	e MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)			nt Floodplain Soils (F1	
	Layers (A5)		Depleted Ma					ous Bright Loamy Soils	s (F20)
	Bodies (A6) (LRR F		Redox Dark	•	,		· ·	A 153B)	
	cky Mineral (A7) (L esence (A8) (LRR I		Depleted Da					rent Material (TF2) allow Dark Surface (TI	=12)
	ck (A9) (LRR P, T)	,	Marl (F10) (L		0)			Explain in Remarks)	12)
	Below Dark Surfac	ce (A11)	Depleted Oc	•	(MLRA 1	51)			
Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	T) ³ Indica	tors of hydrophytic veg	getation and
	airie Redox (A16) (Umbric Surfa	ace (F13)	(LRR P, T	', U)		and hydrology must be	•
	lucky Mineral (S1) (LRR O, S)	Delta Ochric					ss disturbed or problem	natic.
	leyed Matrix (S4)								
	edox (S5) Matrix (S6)		Piedmont Flo				9A) A 149A, 153C, 1	152D)	
	face (S7) (LRR P, 3	яти)		Shyrit Lua		F20) (IVILK	A 149A, 155C,	1550)	
	_ayer (if observed)	-							
Type:	,								
	ches):						Hydric Soil F	Present? Yes	No 🖌
Remarks:							,		_

Project/Site: Port of Little Rock	City/C	_{county:} Pulaski County		Sampling Date: 2023-02-27	
Applicant/Owner: Port of Little Rock		-		Sampling Point: T1-06	
	Section				
Landform (hillslope, terrace, etc.): Flat	Local	relief (concave, convex, no	one): None	Slope (%); 0	
,	Lat: 34.68314			Datum: WGS 84	
Soil Map Unit Name: RmA - Rilla silt Ioam, (Long	NWI classificat		
Are climatic / hydrologic conditions on the site ty					
Are Vegetation, Soil, or Hydrologic					
Are Vegetation, Soil, or Hydrolog	gy naturally problem	atic? (If needed, exp	plain any answer	s in Remarks.)	
SUMMARY OF FINDINGS – Attach s	site map showing san	pling point location	s, transects,	important features, etc.	
Hydrophytic Vegetation Present? Yes	✓ No				
Hydric Soil Present? Yes	✓ No	Is the Sampled Area			
	✓ No	within a Wetland?	Yes	No	
Remarks:					
Agricultural field.					
HYDROLOGY					
Wetland Hydrology Indicators:		<u>S</u>	econdary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is required	l; check all that apply)		Surface Soil		
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Veg	etated Concave Surface (B8)	
High Water Table (A2)	Marl Deposits (B15) (LR	R U)	Drainage Pat	terns (B10)	
Saturation (A3)	Hydrogen Sulfide Odor (Moss Trim Lii	. ,	
Water Marks (B1)	Oxidized Rhizospheres a		-	Vater Table (C2)	
Sediment Deposits (B2)	Presence of Reduced Iro			, ,	
Drift Deposits (B3)	Recent Iron Reduction in Thin Muck Surface (C7)		Geomorphic I	sible on Aerial Imagery (C9)	
$\square \text{ Iron Deposits (B5)}$	Other (Explain in Remark	(S)	Shallow Aquit	. ,	
Inundation Visible on Aerial Imagery (B7)	<u> </u>	•••	FAC-Neutral Test (D5)		
Water-Stained Leaves (B9)		Ī	Sphagnum m	oss (D8) (LRR T, U)	
Field Observations:					
	Depth (inches): 3				
	Depth (inches): 3				
Saturation Present? Yes <u>V</u> No (includes capillary fringe)	Depth (inches): 0	Wetland Hy	drology Presen	t? Yes 🔽 No	
Describe Recorded Data (stream gauge, monit	toring well, aerial photos, pre	vious inspections), if availa	ıble:		
Remarks:					

Sampling Point:	T1-06
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20.4		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2 3				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
8				OBL species <u>5</u> x 1 = <u>5</u>
		= Total Cov		FACW species 0 x 2 = 0
50% of total cover:	20% of	total cover	:	FAC species 85 x 3 = 255
Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>)				FACU species 0 x 4 = 0
1				UPL species $0 \times 5 = 0$
2				Column Totals: 90 (A) 260 (B)
3				
4				Prevalence Index = B/A = 2.89
5				Hydrophytic Vegetation Indicators:
6	·			1 - Rapid Test for Hydrophytic Vegetation
7	·			
8				\square 3 - Prevalence Index is $\leq 3.0^1$
	0% :	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 0	20% of	total cover	<u>.</u> 0	
Herb Stratum (Plot size: 20 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	80	✓	FAC	be present, unless disturbed or problematic.
2. Ranunculus sp.	5			Definitions of Four Vegetation Strata:
3. Juncus effusus	5		OBL	The Alling the stands and still and in a local (7.0 sec) as
4. Rumex crispus	5		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				Conting/Chrub Woody plants evaluating vince loss
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11	·			height.
12				
		= Total Cov		
50% of total cover: <u>47.5</u>	20% of	total cover	<u>:</u> 19	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation
50% of total cover:				Present? Yes 🖌 No
Remarks: (If observed, list morphological adaptations belo				
	····).			

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix	-		x Feature				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 4	5YR 5/2	95	5YR 4/6	5	<u>C</u>	М	Loam	
4 - 18	5YR 6/2	85	5YR 5/6	15	С	М	Loam	
-								
-				·				
-								
		·		·		·		
		·		·		·		
-		·		·		·		
			=Reduced Matrix, MS LRRs, unless other			ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histosol Histic Ep Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast Pr Sandy M Sandy R Stripped Dark Su	(A1) vipedon (A2)	, T, U) RR P, T, U)) e (A11) /ILRA 150/ .RR O, S) 5, T, U)	 Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Oct Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo 	low Surfa rface (S9 y Mineral d Matrix trix (F3) Surface (I k Surface ssions (F RR U) nric (F11) ese Mass ce (F13) (F17) (M il tic (F18) odplain S	ace (S8) (L (LRR S, (F1) (LRR S, (F1) (LRF (F2) F6) e (F7) F8) (MLRA 1 (LRR P, T LRA 151) (MLRA 15 Soils (F19)	T, U) T, U) T, U) T, U) 50A, 150B) (MLRA 14	 J) 1 cm N 2 cm N Reduce Piedmo Anoma (MLF Red Pa Very S Other (Muck (A9) (LRR O) Muck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T) alous Bright Loamy Soils (F20) RA 153B) arent Material (TF2) hallow Dark Surface (TF12) (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present, ess disturbed or problematic.
Туре:	,							
Depth (ind	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:								

Project/Site: Port of Little Rock	City/County: Pulaski	i County	Sampling Date: 2023-02-20
Applicant/Owner: Port of Little Rock			Sampling Point: T1-07
Investigator(s): Jimmy Rogers	Section, Township, R	ange: S28 T1N R11W	
Landform (hillslope, terrace, etc.): Flat		convex none). Concav	Ye Slope (%): 0-5
Subregion (LRR or MLRA): P 133B Lat: 34.68			Datum: WGS 84
Soil Map Unit Name: RmA - Rilla silt Ioam, 0 to 1 percent slop			ation: none
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation, Soil, or Hydrology significantly			present? Yes <u>/</u> No
Are Vegetation, Soil, or Hydrology naturally pro-		needed, explain any answ	
SUMMARY OF FINDINGS – Attach site map showing			
Hydrophytic Vegetation Present? Yes ✓ No Hydric Soil Present? Yes ✓ No Wetland Hydrology Present? Yes ✓ No Remarks:	Is the Sample within a Wetla		∕ No
Depression.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soi	il Cracks (B6)
Surface Water (A1)	3)	Sparsely Ve	egetated Concave Surface (B8)
High Water Table (A2)			atterns (B10)
Saturation (A3)	. ,	<u>└</u> Moss Trim I	(),
	neres along Living Root		n Water Table (C2)
Sediment Deposits (B2)	. ,	Crayfish Bu	· · · ·
	ction in Tilled Soils (C6)		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Inon Deposits (B5) Thin Muck Surface	. ,	= .	c Position (D2)
Iron Deposits (B5) Uther (Explain in F Inundation Visible on Aerial Imagery (B7)	(emarks)	Shallow Aq	
Water-Stained Leaves (B9)		=	moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes <u></u> No <u>Depth</u> (inches	s): 6-12+		
Water Table Present? Yes <u>No</u> Depth (inches			
Saturation Present? Yes No V Depth (inches		/etland Hydrology Prese	ent? Yes 🖌 No
(includes capillary fringe)	/		
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspection	is), if available:	
Remarks:			

Sampling Point:	T1-07
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20 # *			t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r) 1.)	% Cover			Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				Tatal Number of Dominant
3				Total Number of Dominant Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				$\begin{array}{c c c c c c c c c c c c c c c c c c c $
	:			FACW species $0 \times 1 = 0$
50% of total cover:	20% of	total cove	er:	FAC species $50 \times 3 = 150$
Sapling/Shrub Stratum (Plot size: 30 ft r)				
1				
2				UPL species $\frac{0}{70}$ x 5 = $\frac{0}{170}$
3				Column Totals: <u>70</u> (A) <u>170</u> (B)
4	·			Prevalence Index = $B/A = 2.43$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	·			✓ 2 - Dominance Test is >50%
8				$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$
	:	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	er:	
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1 Cyperus echinatus	50	~	FAC	be present, unless disturbed or problematic.
2. Juncus effusus	20	~	OBL	Definitions of Four Vegetation Strata:
3				
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8 9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	70%	= Total Co	over	
50% of total cover: 35.0	20% of	total cove	er: 14.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1,,,				
2				
3.				
4				
5				Hydrophytic Vegetation
50% of total cover:				Present? Yes <u>V</u> No
		total cove	er:	
Remarks: (If observed, list morphological adaptations belo	ow).			

Describe Deservintions (Deservine to the dentity	- needed to decument the indicator or confirm	the absence of indicators)
	n needed to document the indicator or confirm	the absence of indicators.)
Depth <u>Matrix</u> (inches) Color (moist) %	<u>Redox Features</u> Color (moist) % Type ¹ Loc ²	Texture Remarks
		Texture Remarks
-		
-		
		·
-		
		2
¹ Type: C=Concentration, D=Depletion, RM=F		² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all L		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U)	
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 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B) Red Parent Material (TF2)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12)
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T)	Redox Depressions (F8) Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)		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 149	9A)
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	
Dark Surface (S7) (LRR P, S, T, U)		- ,, ,
Restrictive Layer (if observed):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes 🖌 No
Remarks:		
No soil pit dug due to inunda	ation; assumed hydric.	

Project/Site: Port of Little Rock	City/Co	ounty: Pulaski County		Sampling Date: 2023-02-20
Applicant/Owner: Port of Little Rock	,			Sampling Point: T1-08
	Section			<u></u>
	Local r			Slope (%): 1
	Lat: 34.68305			Datum: WGS 84
Soil Map Unit Name: RmA - Rilla silt Ioam,		Long	NWI classifica	
Are climatic / hydrologic conditions on the site ty		No (If		
Are Vegetation, Soil, or Hydrologic				resent? Yes <u>/</u> No
Are Vegetation, Soil, or Hydrolo				
			olain any answer	
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point location	s, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	✓ No	Is the Sampled Area		
Hydric Soil Present? Yes	V No	within a Wetland?	Yes 🗸	No
Wetland Hydrology Present? Yes	✓ No			
Agricultural field.				
HYDROLOGY				
Wetland Hydrology Indicators:		S	econdary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required	d. check all that apply)	<u>с</u>	Surface Soil (
Surface Water (A1)	Aquatic Fauna (B13)	Ľ	-	etated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR	υ) <u></u>	Drainage Pat	
Saturation (A3)	Hydrogen Sulfide Odor (C		 Moss Trim Li	
Water Marks (B1)	Oxidized Rhizospheres ald	ong Living Roots (C3)	Dry-Season \	Vater Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron		Crayfish Burr	(),
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	. Г	Geomorphic	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks		Shallow Aqui	
Water-Stained Leaves (B9)		É	=	oss (D8) (LRR T, U)
Field Observations:				
Surface Water Present? Yes 🖌 No	Depth (inches): <u>6</u>			
Water Table Present? Yes No	Depth (inches):			
	Depth (inches):	Wetland Hyd	drology Presen	t? Yes 🖌 No
(includes capillary fringe) Describe Recorded Data (stream gauge, moni	toring well, aerial photos, prev	ious inspections), if availa	ıble:	
		_		
Remarks:				

Sampling Point:	T1-08
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· · · /	Absolute	Dominan	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)		Species		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Tatal New Arms of Development
3				Total Number of Dominant Species Across All Strata: 0 (B)
4				
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>NaN</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
		= Total Co	ver	
50% of total cover:	20% of	f total cove	r:	FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
				UPL species $0 \times 5 = 0$
2				Column Totals: 20 (A) 20 (B)
3				
4				Prevalence Index = $B/A = 1.00$
5			·	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				
8				\checkmark 3 - Prevalence Index is $\leq 3.0^{1}$
		= Total Co	ver	
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
	20 % 0		·	
Herb Stratum (Plot size: 15 ft r) 1 Unidentifed herb	60			¹ Indicators of hydric soil and wetland hydrology must
	60	 ✓ 		be present, unless disturbed or problematic.
2. Callitriche palustris	15		OBL	Definitions of Four Vegetation Strata:
3. Eleocharis sp.	5		·	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
_{4.} Limnobium spongia	5		OBL	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9			·	of size, and woody plants less than 3.28 ft tall.
10			·	Woody vine – All woody vines greater than 3.28 ft in
11	. <u> </u>			height.
12				
	85%	= Total Co	ver	
50% of total cover: 42.5				
Woody Vine Stratum (Plot size: 30 ft r)				
1				
1				
2				
2 3				
2				
2 3				Hydrophytic
2 3 4				Hydrophytic Vegetation
2 3 4 5		= Total Co	ver	
2 3 4 5 50% of total cover:	 	= Total Co	ver	Vegetation
2 3 4 5 50% of total cover: Remarks: (If observed, list morphological adaptations below	20% of	= Total Co f total cove	ver	Vegetation Present? Yes <u>V</u> No <u>No</u>
2 3 4 5 50% of total cover:	20% of	= Total Co f total cove	ver	Vegetation Present? Yes <u>V</u> No <u>No</u>

Profile Description: (Describe to the depth network)	eeded to document the indicator or confirm	the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
-		
-		
¹ Type: C=Concentration, D=Depletion, RM=Rec	duced Matrix, MS=Masked Sand Grains	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRR		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U)	
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 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	• 31. discharge of builden the discussion for the second
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P, T	, , , , , , , , , , , , , , , , , , , ,
Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Macky Millerar (61) (Erric 6, 6)	Reduced Vertic (F18) (MLRA 150A, 150B)	uness distarbed of problematic.
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 149	A)
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLRA	•
Dark Surface (S7) (LRR P, S, T, U)		
Restrictive Layer (if observed):		
Туре:	_	
Depth (inches):	_	Hydric Soil Present? Yes 🖌 No
Remarks:		
No pit due to inundation; assu	med hydric.	

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02-2				
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T1-09				
	Section, Townshi				
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ave. convex. none); None	Slope (%): 2		
		· · · · ·	Datum: WGS 84		
Soil Map Unit Name: RmA - Rilla silt loam, 0 to		NWI classifica			
Are climatic / hydrologic conditions on the site typical					
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" p			
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe			
SUMMARY OF FINDINGS – Attach site					
Hydrophytic Vegetation Present? Yes	No V Is the Sam				
	No V	•	No 🖌		
	No within a W	retiand? fes			
Remarks: Agricultural field.					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is required; che	ck all that apply)	Surface Soil	Cracks (B6)		
	quatic Fauna (B13)		getated Concave Surface (B8)		
	larl Deposits (B15) (LRR U)	Drainage Pa			
	ydrogen Sulfide Odor (C1)	Moss Trim Li			
	ixidized Rhizospheres along Living F resence of Reduced Iron (C4)	Crayfish Bur	Water Table (C2)		
	ecent Iron Reduction in Tilled Soils		sible on Aerial Imagery (C9)		
	hin Muck Surface (C7)		Position (D2)		
	ther (Explain in Remarks)	Shallow Aqu			
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	Test (D5)		
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)		
Field Observations:					
	Depth (inches):				
	Depth (inches):				
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Preser	nt? Yes No		
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspec	tions), if available:			
Remarks:					

			Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r	,		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
1 2					
3.					Total Number of Dominant Species Across All Strata: 0 (B)
4.					,
5					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>NaN</u> (A/B)
6					Prevalence Index worksheet:
7					Total % Cover of: Multiply by:
8					$\begin{array}{c c} \hline \hline \\ $
			= Total Cov		FACW species 0 x 2 = 0
	50% of total cover:	20% of	total cover	:	FAC species 5 x 3 = 15
Sapling/Shrub Stratum (Plot size					FACU species 15 x 4 = 60
1					UPL species $0 \times 5 = 0$
2					Column Totals: 20 (A) 75 (B)
3					
4					Prevalence Index = $B/A = 3.75$
5					Hydrophytic Vegetation Indicators:
6					1 - Rapid Test for Hydrophytic Vegetation
7					2 - Dominance Test is >50%
8					\Box 3 - Prevalence Index is $\leq 3.0^1$
		:	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
	50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 10 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Glycine max		50	<u> </u>		be present, unless disturbed or problematic.
2. Unidentifed grass		10	<u> </u>		Definitions of Four Vegetation Strata:
3. Allium vineale		5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Cardamine hirsuta		5		FACU	more in diameter at breast height (DBH), regardless of
5. Cerastium fontanum		5		FAC	height.
_{6.} Festuca rubra		5		FACU	Sapling/Shrub – Woody plants, excluding vines, less
7. Geranium sp.		5			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
_{8.} Houstonia pusilla		5			Herb – All herbaceous (non-woody) plants, regardless
9. Lamium purpureum		5			of size, and woody plants less than 3.28 ft tall.
_{10.} Rumex sp.		5			Woody vine – All woody vines greater than 3.28 ft in
11					height.
12					
		100% :	= Total Cov	/er	
	50% of total cover: 50.0	20% of	total cover	20.0	
Woody Vine Stratum (Plot size:	30 ft r)				
1					
2					
3					
4					
5					Hydrophytic
		:	= Total Cov	/er	Vegetation
	50% of total cover:	20% of	total cover	:	Present? Yes No V
Remarks: (If observed, list morp	hological adaptations belo	w).			1

	ription: (Describe		needed to docur	nent the i	ndicator	or contirm	the absence	of indicato	ors.)		
Depth	Matrix		Redo	x Feature	5						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0 - 18	5YR 4/4	100					Loam				
	·					·					
-											
-											
-											
-											
-											
						<u> </u>					
	oncentration, D=Dep					ains.			ining, M=Matr		
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise note	ed.)		Indicators	for Proble	matic Hydric	Soils ³ :	
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, L	J) 1 cm M	luck (A9) (L	.RR O)		
	bipedon (A2)		Thin Dark Su				· _	luck (A10) (
Black Hi			Loamy Muck					. , .	18) (outside	MLRA 150A.	.B)
	n Sulfide (A4)		Loamy Gleye	-		-,			ain Soils (F19		
	Layers (A5)		Depleted Ma		/				Loamy Soils		.,
	Bodies (A6) (LRR F	о т 10	Redox Dark	()	6)			RA 153B)		120)	
			=	•	,			arent Materi			
	icky Mineral (A7) (L		Depleted Da						· ·		
	esence (A8) (LRR L)			5)				Surface (TF	2)	
	ick (A9) (LRR P, T)		Marl (F10) (L				Uther (Explain in F	Remarks)		
= .	Below Dark Surfac	æ (A11)	Depleted Oc								
	ark Surface (A12)		Iron-Mangan						Irophytic vege		
	rairie Redox (A16) (Umbric Surfa	ice (F13) (LRR P, T	, U)			ogy must be p		
Sandy M	lucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (ML	RA 151)		unle	ess disturbe	d or problema	atic.	
Sandy C	Bleyed Matrix (S4)		Reduced Ver	rtic (F18) (MLRA 15	0A, 150B)					
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)				
Stripped	Matrix (S6)		Anomalous E	Bright Loar	ny Soils (I	F20) (MLR	A 149A, 153C,	153D)			
Dark Su	rface (S7) (LRR P, S	S, T, U)		-							
Restrictive I	_ayer (if observed)	:									
Restrictive I	_ayer (if observed)						Undria Cail	Dues e ut 2	Yaa		
Restrictive I Type: Depth (inc		:					Hydric Soil	Present?	Yes	No _	
Restrictive I	_ayer (if observed)	:					Hydric Soil	Present?	Yes	No	
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	No 🖌	
Restrictive I Type: Depth (inc	_ayer (if observed)	:					Hydric Soil	Present?	Yes	No	
Restrictive I Type: Depth (inc	_ayer (if observed)	:					Hydric Soil	Present?	Yes	No	
Restrictive I Type: Depth (inc	_ayer (if observed)	:					Hydric Soil	Present?	Yes	No	
Restrictive I Type: Depth (inc	_ayer (if observed)	:					Hydric Soil	Present?	Yes	No 🖌	
Restrictive I Type: Depth (inc	_ayer (if observed)	:					Hydric Soil	Present?	Yes	No 🖌	
Restrictive I Type: Depth (inc	_ayer (if observed)	:					Hydric Soil	Present?	Yes	No 🖌	
Restrictive I Type: Depth (inc	_ayer (if observed)	:					Hydric Soil	Present?	Yes	No _ 🗸	
Restrictive I Type: Depth (inc	_ayer (if observed)	:					Hydric Soil	Present?	Yes	No <u></u>	_
Restrictive I Type: Depth (inc	_ayer (if observed)	:					Hydric Soil	Present?	Yes	No <u></u>	_
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	No <u></u>	_
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	No _	
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	No _	_
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	No _	_
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	. No <u></u>	_
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	. No <u></u>	-
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	No _	
Restrictive I Type: Depth (inc	_ayer (if observed)	·					Hydric Soil	Present?	Yes	No _ 🗸	
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	. No _ Ľ	
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	. No _ Ľ	
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	. No _ Ư	_
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	. No _ Ľ	_
Restrictive I Type: Depth (inc	_ayer (if observed)						Hydric Soil	Present?	Yes	. No _ Ľ	_

Project/Site: Port of Little Rock	City/County: P	ulaski County		Sampling Date: 2023-02-20	
Applicant/Owner: Port of Little Rock					
Investigator(s): Jimmy Rogers	Section, Towns				
				Slope (%): <u>1</u>	
Subregion (LRR or MLRA): P 133B Lat:	34.68272	Long: -92.	1762	Datum: WGS 84	
Soil Map Unit Name: RmA - Rilla silt Ioam, 0 to 1 perce			NWI classificat		
Are climatic / hydrologic conditions on the site typical for this ti					
Are Vegetation, Soil, or Hydrology sign				resent? Yes <u>/</u> No	
Are Vegetation, Soil, or Hydrology nat		(If needed, expla			
SUMMARY OF FINDINGS – Attach site map sh			-		
Hydrophytic Vegetation Present? Yes No	~				
Hydric Soil Present? Yes No		ampled Area			
Wetland Hydrology Present? Yes No	WILLING	Wetland?	Yes	No	
Remarks:					
Agricultural field.					
HYDROLOGY					
Wetland Hydrology Indicators:		Sec	condary Indicat	tors (minimum of two required)	
Primary Indicators (minimum of one is required; check all that	t apply)	[]	Surface Soil (Cracks (B6)	
Surface Water (A1)		님		etated Concave Surface (B8)	
	sits (B15) (LRR U)	님	Drainage Pat		
	Sulfide Odor (C1)		Moss Trim Lir		
	Rhizospheres along Livin	g Roots (C3)	-	Vater Table (C2)	
	of Reduced Iron (C4) n Reduction in Tilled Soi		Crayfish Burr	sible on Aerial Imagery (C9)	
	Surface (C7)		Geomorphic I		
	lain in Remarks)	Π	Shallow Aquit		
Inundation Visible on Aerial Imagery (B7)	,		FAC-Neutral	, ,	
Water-Stained Leaves (B9)			Sphagnum m	oss (D8) (LRR T, U)	
Field Observations:					
Surface Water Present? Yes No _ Cepth	(inches):	_			
Water Table Present? Yes No _ Cepth	(inches):	_			
Saturation Present? Yes No <u>✓</u> Deptr (includes capillary fringe)	(inches):	_ Wetland Hydr	ology Presen	t? Yes No 🖌	
Describe Recorded Data (stream gauge, monitoring well, ae	ial photos, previous insp	pections), if availabl	le:		
Remarks:					

	Absolute Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1	<u>% Cover</u> <u>Species?</u> <u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2 3		Total Number of Dominant Species Across All Strata: 0 (B)
4 5		Percent of Dominant Species That Are OBL, FACW, or FAC: <u>NaN</u> (A/B)
6	·	Prevalence Index worksheet:
7	·	Total % Cover of: Multiply by:
8		$\begin{array}{c} \hline \hline \\ $
	= Total Cover	FACW species 0 $x 2 = 0$
	20% of total cover:	FAC species 0 $x = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)		FACU species 10 $x = 40$
1		$\begin{array}{c} \text{PACU Species} \underline{10} \\ \text{UPL species} \underline{0} \\ \text{x 5 = } \\ 0 \\ \end{array}$
2		10 10
3	·	Column Totals: 10 (A) 40 (B)
4		Prevalence Index = B/A = 4.0
5		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		└── 2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.0 ¹
500/ 51 4	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 10 ft r) 1 Glycine max	60 🖌	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Cardamine hirsuta	10 FACU	Definitions of Four Vegetation Strata:
3.	·	
		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of height.
5		
6 7		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10	·	Woody vine – All woody vines greater than 3.28 ft in
11		height.
12	70% = Total Cover	
500/ of total action 35 0	20% of total cover: 14.0	
Woody Vine Stratum (Plot size: <u>30 ft r</u>)		
1		
2		
3		
4		
5		Hydrophytic
	= Total Cover	Vegetation Present? Yes No Vegetation
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptations belo	ow).	

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the absence o	f indicato	rs.)	
Depth	Matrix		Redox	K Features	s					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc ²	Texture		Remark	<u>s</u>
0 - 6	5YR 5/4	100					Loam			
6 - 18	5YR 4/6	100					Loamy Sand			
-										
-										
-		·								
-										
	oncentration, D=Dep					ains.	² Location: F			
	ndicators: (Applic	able to all Li					Indicators fo		•	C SOIIS":
Histosol (Polyvalue Bel							
Black His	bipedon (A2)		Thin Dark Su					ick (A10) (1 Vertic (F		e MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			(0)				19) (LRR P, S, T)
	Layers (A5)		Depleted Mat		,			•	Loamy Soil	
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark S	Surface (F	6)			A 153B)		. ,
🔲 5 cm Mu	cky Mineral (A7) (LF	RR P, T, U)	Depleted Dar	k Surface	(F7)			ent Materi	. ,	
	esence (A8) (LRR U)	Redox Depre		8)				Surface (T	F12)
	ck (A9) (LRR P, T)	- ()]	Marl (F10) (L			-41	U Other (E	xplain in F	Remarks)	
	l Below Dark Surface ark Surface (A12)	e (A11)	Depleted Och		•	•	T) ³ Indicat	tore of hyd	Ironhytic vo	getation and
	airie Redox (A12)	AI RA 150A)	=		. , .				ogy must be	
	lucky Mineral (S1) (L		Delta Ochric			, -,			d or probler	
	leyed Matrix (S4)		Reduced Ver			0A, 150B)				
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)			
	Matrix (S6)		Anomalous B	right Loar	my Soils (F20) (MLR	A 149A, 153C, 1	153D)		
	face (S7) (LRR P, S	-					1			
	.ayer (if observed):									
Type:	ches):						Undria Sail D		Vac	
1 (ches):						Hydric Soil P	resent?	Yes	No
Remarks:										

Project/Site: Port of Little Rock	Citv/County: Pula	ski County	Sampling Date: 2023-02-20
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Township		
	Local relief (conca		Slope (%): 2
Subregion (LRR or MLRA): P 133B		·	Datum: WGS 84
Soil Map Unit Name: RMA - Rilla silt Ioam, 0 to 1 pe			ation: none
Are climatic / hydrologic conditions on the site typical for the			
Are Vegetation <u>·</u> , Soil <u></u> , or Hydrology <u></u>			
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	o showing sampling poi	nt locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes Remarks: Yes	No <u>v</u> within a W		No _ 🗸
Agricultural field. Linear swale.			
HYDROLOGY Wetland Hydrology Indicators:		Socondan/ India	ators (minimum of two required)
Primary Indicators (minimum of one is required; check a	c Fauna (B13)	Surface Soi	I Cracks (B6) egetated Concave Surface (B8)
	Deposits (B15) (LRR U)		atterns (B10)
	gen Sulfide Odor (C1) ed Rhizospheres along Living F	Moss Trim I	Lines (B16) i Water Table (C2)
	nce of Reduced Iron (C4)	Crayfish Bu	
	t Iron Reduction in Tilled Soils (= .	/isible on Aerial Imagery (C9)
	luck Surface (C7)		c Position (D2)
Iron Deposits (B5)	(Explain in Remarks)	Shallow Aq	uitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	()
Water-Stained Leaves (B9)		Sphagnum	moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No	epth (inches):		
	epth (inches):	Wetland Hydrology Prese	nt? Yes 🖌 No
(includes capillary fringe)	,		
Describe Recorded Data (stream gauge, monitoring well	, aerial photos, previous inspec	tions), if available:	
Remarks:			
inding.			

	•			Gamping Fond.
Tree Stratum (Plot size: 30 ft r)		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 0 (B)
4				
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: NaN (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of:Multiply by:
		= Total Cov	/or	OBL species 0 x 1 = 0
				FACW species <u>0</u> x 2 = <u>0</u>
50% of total cover:	20% of	total cover	:	FAC species $0 x 3 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				
1				FACU species 5 $x = 20$
2				UPL species 0 x 5 = 0
3				Column Totals: <u>5</u> (A) <u>20</u> (B)
4				Prevalence Index = $B/A = 4.0$
5	. <u> </u>			Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				
				3 - Prevalence Index is $\leq 3.0^1$
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 10 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Unidentifed (dead remains) herb	70	~		be present, unless disturbed or problematic.
2. Cardamine hirsuta	5		FACU	Definitions of Four Vegetation Strata:
3. Paspalum sp.	5			Demittons of Four Vegetation Otrata.
	5			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Glycine max	5			more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				J
8				Herb – All herbaceous (non-woody) plants, regardless
9	. <u> </u>			of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
· <u>-</u> .	85%	= Total Cov		
50% of total cover: 42.5	20% of	total cover	17.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	/er	Vegetation
EOO/ of total anyon				Present? Yes No 🖌
50% of total cover:		ioial cover	•	
Remarks: (If observed, list morphological adaptations belo				

Dominant herb not identified due to time of year. Vegetation assumed non-hydrophytic based on other species and other indicators. Regardless of vegetation, the area lacks hydric soils and therefore would not be classified as a wetland.

Profile Desc	cription: (Describe	to the depth	n needed to docun	nent the i	ndicator	or confirm	n the absence of	indicato	rs.)		
Depth	Matrix		Redo	K Feature	s						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0 - 18	5YR 5/3						Loam				
-											
							<u> </u>				
-											
-											
-											
							<u> </u>				
-											
-											
¹ Type: C=C	oncentration, D=Dep	pletion RM=F	Reduced Matrix MS	S=Masker	Sand Gr	ains	² Location: PL	=Pore I	ining M=Mat	rix	
	Indicators: (Applic						Indicators fo				
Histosol			Polyvalue Be			PPSTI			-		
	pipedon (A2)		Thin Dark Su								
	istic (A3)		Loamy Mucky						18) (outside	MI PA 15	0 A B)
	en Sulfide (A4)		Loamy Gleye			. 0)		•	ain Soils (F19		
	d Layers (A5)		=		12)				Loamy Soils		3, 1)
	Bodies (A6) (LRR P	. T IN	Depleted Mat		6)		(MLRA	-	LUarity Solis	(F20)	
	ucky Mineral (A7) (L	· · ·	=	•	,						
			Depleted Dar						(TFZ) Surface (TF	10)	
	resence (A8) (LRR L))	Redox Depre		0)				•	12)	
	uck (A9) (LRR P, T)	a (A11)	Marl (F10) (L			E4)		cpiain in F	Remarks)		
	d Below Dark Surfac ark Surface (A12)	e (ATT)					T) ³ Indicate	ore of by	trophytic yog	atation and	4
	rairie Redox (A16) (I							-	drophytic vege ogy must be p		1
	/ucky Mineral (S1) (, 0)			d or problem		
	Gleyed Matrix (S4)	LKK 0, 3)	Delta Ochric Reduced Ver			0A 450D)		suistuibe		auc.	
	Redox (S5)		Piedmont Flo					E2D)			
	l Matrix (S6) rface (S7) (LRR P, \$	ст II)		ngni Loai	ity Solis (F20) (IVILR	A 149A, 153C, 1	55D)			
	Layer (if observed)	-									
_	Layer (il observed)	•									
Туре:											
Depth (in	ches):						Hydric Soil Pr	esent?	Yes	No	<u> </u>
Remarks:											

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-0					
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T1-12					
	Section, Township, Range: S27 T1N R11W					
Landform (hillslope, terrace, etc.): Flat	Local relief (concav	ve, convex, none): None	Slope (%): 1			
	Lat: 34.68283	Long: -92.17591	Datum: WGS 84			
Soil Map Unit Name: RmA - Rilla silt Ioam, 0 to 1 pe		NWI classifica				
Are climatic / hydrologic conditions on the site typical for						
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" p				
Are Vegetation, Soil, or Hydrology		If needed, explain any answer				
SUMMARY OF FINDINGS – Attach site ma			·			
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No <u>v</u> within a We		No			
Wetland Hydrology Present? Yes Remarks:	No					
Agricultural field.						
HYDROLOGY						
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check a		Secondary Indica	tors (minimum of two required)			
Surface Water (A1) Aqua High Water Table (A2) Marl Saturation (A3) Hydro Water Marks (B1) Oxidi Sediment Deposits (B2) Prese Drift Deposits (B3) Rece Algal Mat or Crust (B4) Thin	tic Fauna (B13) Deposits (B15) (LRR U) ogen Sulfide Odor (C1) zed Rhizospheres along Living R ence of Reduced Iron (C4) nt Iron Reduction in Tilled Soils (Muck Surface (C7) • (Explain in Remarks)	C6) C4) C4) C4) C4) C4) C4) C4) C4) C4) C4	etated Concave Surface (B8) terns (B10) nes (B16) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3)			
	Depth (inches):					
Water Table Present? Yes No 🗹	Depth (inches): Depth (inches):	Wetland Hydrology Presen	t? Yes No			
Remarks:						

			t Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1		<u>Species</u>		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2 3				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
8				OBL species 0 x 1 = 0
		= Total Co		FACW species 0 x 2 = 0
50% of total cover:	20% 01	total cove	r:	FAC species $0 \times 3 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 30 x 4 = 120
1				UPL species 0 x 5 = 0
2				Column Totals: 30 (A) 120 (B)
3 4				Prevalence Index = $B/A = 4.0$
5				Hydrophytic Vegetation Indicators:
6				□ 1 - Rapid Test for Hydrophytic Vegetation
7				\square 2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^{1}$
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	r:	
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Cardamine hirsuta	25	~	FACU	be present, unless disturbed or problematic.
2. Glycine max	20	~		Definitions of Four Vegetation Strata:
3. Poa annua	5		FACU	
4. Geranium sp.	2			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Harb All berbasseus (non woody) planta, regardlage
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	52%	= Total Co	ver	
50% of total cover: 26.0	20% of	total cove	r: 10.4	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co	ver	Vegetation
50% of total cover:	20% of	total cove	r:	Present? Yes No V
Remarks: (If observed, list morphological adaptations belo				
	.,-			

Profile Desc	ription: (Describe	to the dept	n needed to docun	nent the i	indicator	or confirn	n the absence o	f indicato	ors.)		
Depth	Matrix		Redo	k Feature	S						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0 - 18	5YR 4/3	100					Clay Loam				
										-	
-											
-											
-											
							<u> </u>				
-											
-											
¹ Type: C=C	oncentration, D=Dep	pletion. RM=	Reduced Matrix, MS	=Masked	d Sand Gr	ains.	² Location: F	PL=Pore L	ining, M=Mat	rix.	
	Indicators: (Applic								matic Hydric		
Histosol			Polyvalue Be		•	RRSTI	_	uck (A9) (L	-		
	oipedon (A2)		Thin Dark Su					uck (A10) (
	stic (A3)		Loamy Mucky							MLRA 150A,	B)
	en Sulfide (A4)		Loamy Gleye			. 0)) (LRR P, S,	
	d Layers (A5)		Depleted Mat		(<u>-</u>)				Loamy Soils		•,
	Bodies (A6) (LRR F	р. т. U)	Redox Dark S		-6)			A 153B)	Louiny cono	(1 20)	
	ucky Mineral (A7) (L	· · ·	Depleted Dar	•	,		•	ent Materi	al (TF2)		
	resence (A8) (LRR I		Redox Depre						Surface (TF	12)	
	uck (A9) (LRR P, T)	-)	Marl (F10) (L	•	0)			Explain in F	•	12)	
	d Below Dark Surfac	e (A11)			(MLRA 1	51)			(cindiko)		
	ark Surface (A12)		Iron-Mangane				T) ³ Indica	tors of hyd	Irophytic veg	etation and	
	rairie Redox (A16) (MLRA 150A						-	ogy must be i		
	lucky Mineral (S1) (Delta Ochric			, -,			d or problem		
	Bleyed Matrix (S4)	, _, _,	Reduced Ver			0A. 150B)					
	Redox (S5)		Piedmont Flo								
	Matrix (S6)						RA 149A, 153C, 1	153D)			
	rface (S7) (LRR P,	S, T, U)		5	J (- / (- ,,	,			
	Layer (if observed)	-									
Type:											
	ches):						Hydric Soil P	Present?	Yes	No 🖌	
Remarks:							ingane con i	resent.	100		_
Remarks.											

Project/Site: Port of Little Rock	City/0	City/County: Pulaski County Sampling Date: 2023-02-					
Applicant/Owner: Port of Little Rock		State: Arkansas Sampling Point: T1-13					
		Section, Township, Range: S27 T1N R11W					
Landform (hillslope, terrace, etc.): Flat		I relief (concave, convex, none);	None Slope (%): _0				
Subregion (LRR or MLRA): P 133B	Lat: 34.68276		43 Datum: WGS 84				
Soil Map Unit Name: RmA - Rilla silt			classification: none				
Are climatic / hydrologic conditions on th							
Are Vegetation, Soil, or H			stances" present? Yes <u> No</u>				
Are Vegetation, Soil, or H			ny answers in Remarks.)				
-			ansects, important features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u> </u>	Is the Sampled Area within a Wetland?	Yes No				
Remarks:							
Agricultural field.							
HYDROLOGY							
Wetland Hydrology Indicators:		Second	ary Indicators (minimum of two required)				
	Aquatic Fauna (B13) Marl Deposits (B15) (LR Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction ir Thin Muck Surface (C7) Other (Explain in Remar	R U) C1) along Living Roots (C3) on (C4) Tilled Soils (C6) ks) FAU FAU Spl	face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) ss Trim Lines (B16) Season Water Table (C2) ayfish Burrows (C8) curation Visible on Aerial Imagery (C9) omorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) magnum moss (D8) (LRR T, U)				
	No _ Depth (inches): No _ Mo _ Depth (inches):		y Present? Yes No ✔				
(includes capillary fringe)			,,				
Describe Recorded Data (stream gaug Remarks:	e, monitoring well, aerial photos, pro	evious inspections), if available:					

00 ft -		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>3</u> (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
0		= Total Cov		OBL species 0 $x = 0$
50% of total cover:				FACW species <u>5</u> x 2 = <u>10</u>
	20% 01	total cover	·	FAC species <u>60</u> x 3 = <u>180</u>
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 30 x 4 = 120
1				UPL species $0 \times 5 = 0$
2			·	Column Totals: 95 (A) 310 (B)
3				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
4				Prevalence Index = $B/A = 3.26$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				 ☑ 2 - Dominance Test is >50%
8				
		= Total Cov		
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
	20 % 01		•	
Herb Stratum (Plot size: 20 ft r) 1 Andropogon virginicus	30		FAC	¹ Indicators of hydric soil and wetland hydrology must
	25	<u> </u>		be present, unless disturbed or problematic.
2. <u>Allium vineale</u>		 ✓ 	FACU	Definitions of Four Vegetation Strata:
3. Elymus canadensis	25	 ✓ 	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Rumex crispus	5		FAC	more in diameter at breast height (DBH), regardless of
5. Setaria parviflora	5		FACW	height.
_{6.} Ranunculus sp.	5			Sapling/Shrub – Woody plants, excluding vines, less
7. Solanum carolinense	5		FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11			. <u> </u>	height.
12	100%		·	
50.0		= Total Cov		
50% of total cover: 50.0	20% of	total cover	20.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				the described of
		= Total Cov		Hydrophytic Vegetation
EQ9/ of total covers				Present? Yes <u>No</u>
50% of total cover:		total cover	·	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe	to the depth	n needed to docur	nent the i	ndicator	or confirm	the absence	of indicator	rs.)
Depth	Matrix		Redo	x Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0 - 14	5YR 5/3	100					Loam		
14 - 18	5YR 5/6	100					Silt		
-									
-									
_									
$\frac{1}{1}$ Type: C=Cc	oncentration, D=Dep	letion RM=F	Reduced Matrix M	S=Masker	I Sand Gr	ains	² Location:	PI =Pore Lir	ning, M=Matrix.
	ndicators: (Applic					aiii5.			natic Hydric Soils ³ :
Histosol (Polyvalue Be			RRSTI		luck (A9) (Ll	
	vipedon (A2)		Thin Dark Su				· –	luck (A10) (L	
Black Hi			Loamy Muck					· / ·	18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	•				•	in Soils (F19) (LRR P, S, T)
Stratified	I Layers (A5)		Depleted Ma	trix (F3)			L Anoma	lous Bright L	Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark	Surface (F	6)			RA 153B)	
	cky Mineral (A7) (L l		Depleted Dai					arent Materia	
	esence (A8) (LRR L	J)			8)				Surface (TF12)
	ck (A9) (LRR P, T) I Below Dark Surfac	o (A11)	Marl (F10) (L			51)		Explain in R	emarks)
	rk Surface (A12)		Iron-Mangan				T) ³ Indica	ators of hvdi	rophytic vegetation and
	airie Redox (A16) (MLRA 150A)							gy must be present,
	lucky Mineral (S1) (Delta Ochric			, -,		-	d or problematic.
Sandy G	leyed Matrix (S4)		Reduced Ver						
	edox (S5)		Piedmont Flo						
	Matrix (S6)		Anomalous E	Bright Loai	my Soils (F20) (MLR	A 149A, 153C,	153D)	
	face (S7) (LRR P, S	-							
_	ayer (if observed)								
Туре:									,
Depth (inc	ches):						Hydric Soil	Present?	Yes No
Remarks:									
1									
1									

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02-20
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T1-14
	Section, Township, Range: S27 T1N R11W
Landform (hillslope, terrace, etc.): Slough	Local relief (concave, convex, none): Concave Slope (%): 1
Subregion (LRR or MLRA): P 133B Lat: 34.68	
Soil Map Unit Name: Ko - Keo silt loam, 0 to 1 percent slopes	
Are climatic / hydrologic conditions on the site typical for this time of yo	ear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ✔ No Hydric Soil Present? Yes ✔ No Wetland Hydrology Present? Yes ✔ No Remarks:	Is the Sampled Area within a Wetland? Yes <u>✓</u> No
Wetland slough. HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Sediment Deposits (B2)	3) Sparsely Vegetated Concave Surface (B8) 5) (LRR U) Drainage Patterns (B10) Dodor (C1) heres along Living Roots (C3) ced Iron (C4) Crayfish Burrows (C8) ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) (C7) Geomorphic Position (D2) Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No <u></u>	i): Wetland Hydrology Present? Yes <u>v</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial phot Remarks:	os, previous inspections), if available:

		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 1	(A)
2				Total Number of Dominant	
3				Species Across All Strata: 1	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100	(A/B)
6				Developer to develop to be of	
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	_
		= Total Cov	er	OBL species 50 x 1 = 50	_
50% of total cover:	20% o	f total cover:		FACW species 0 $x 2 = 0$	_
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $0 \times 3 = 0$	_
1. Cephalanthus occidentalis	50	~	OBL	FACU species $0 x 4 = 0$	_
2				UPL species $0 x 5 = 0$	_
3				Column Totals: 50 (A) 50	(B)
				10	
4				Prevalence Index = B/A = 1.0	_
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7		·		2 - Dominance Test is >50%	
8	50%			$\boxed{}$ 3 - Prevalence Index is $\leq 3.0^1$	
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explai	n)
50% of total cover: 25.0	20% o	f total cover:	10.0		
Herb Stratum (Plot size: <u>30 ft r</u>)				¹ Indicators of hydric soil and wetland hydrology n	nust
1				be present, unless disturbed or problematic.	
2				Definitions of Four Vegetation Strata:	
3				Tree Weedy plants evaluating vince 2 in (7.6.	
4				Tree – Woody plants, excluding vines, 3 in. (7.6 more in diameter at breast height (DBH), regardle	
5				height.	
6				Capling/Chruh Woody plants evaluating vince	
				Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
7					
8				Herb – All herbaceous (non-woody) plants, regar	rdless
9				of size, and woody plants less than 3.28 ft tall.	
10	·			Woody vine - All woody vines greater than 3.28	ft in
11		. <u> </u>		height.	
12	·				
		= Total Cov	er		
50% of total cover:	20% o	f total cover:			
Woody Vine Stratum (Plot size: 30 ft r)					
1					
2					
3					
4					
5				I hadro a bastio	
···		= Total Cov		Hydrophytic Vegetation	
50% of total cover:				Present? Yes <u>V</u> No	
		i total cover.			
Remarks: (If observed, list morphological adaptations belo	ow).				

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
-								
-								
				·		· <u> </u>		
						·		
-				·				
-								
-								
¹ Type: C=C	oncentration, D=Dep	pletion. RM=F	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
	Indicators: (Applic							for Problematic Hydric Soils ³ :
Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast P Sandy M	bipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P ucky Mineral (A7) (L esence (A8) (LRR L uck (A9) (LRR P, T) d Below Dark Surfac ark Surface (A12) rairie Redox (A16) (fucky Mineral (S1) (RR P, T, U) J) xe (A11) MLRA 150A)	Delta Ochric	rface (S9) y Mineral d Matrix (trix (F3) Surface (F k Surface essions (F RR U) nric (F11) ese Massi ce (F13) ((F17) (ML) (LRR S, (F1) (LRF F2) 6 (F7) 8) (MLRA 1 es (F12) ((LRR P, T .RA 151)	T, U) R O) 51) (LRR O, P, T T, U)	2 cm M Reduc Piedm Anoma (MLF Red P3 Very S Other of 3Indic wet	Muck (A9) (LRR O) Muck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T) alous Bright Loamy Soils (F20) RA 153B) arent Material (TF2) Shallow Dark Surface (TF12) (Explain in Remarks) eators of hydrophytic vegetation and tland hydrology must be present, ess disturbed or problematic.
	Bleyed Matrix (S4)		Reduced Ver					
	Redox (S5)		Piedmont Flo					4520)
	Matrix (S6) rface (S7) (LRR P, \$	s т II)	Anomalous B	inght Loar	my Solis (F20) (WLRA	a 149A, 153C	, 153D)
	Layer (if observed)	-						
Type:								
Depth (in	ches).						Hvdric Soil	Present? Yes 🖌 No
Remarks:								
No pit d	ug due to inı	undation	; hydric soil	s assu	ımed.			

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02-					
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T2-01					
	Section, Township, Range: S28 T1N R11W					
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ve. convex. none): None	Slope (%): 0			
,		,	Datum: WGS 84			
Soil Map Unit Name: <u>No - Norwood silty clay loan</u>		NWI classifica				
Are climatic / hydrologic conditions on the site typical for						
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology		If needed, explain any answe				
SUMMARY OF FINDINGS – Attach site ma						
Hudrophytic Vocatation Propert? Voc			-			
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No <u>/</u> Is the Sam					
Wetland Hydrology Present? Yes		etland? Yes	No			
Remarks:						
Agricultural field.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil	Cracks (B6)			
Surface Water (A1)	atic Fauna (B13)	Sparsely Veg	petated Concave Surface (B8)			
	Deposits (B15) (LRR U)		Drainage Patterns (B10)			
	rogen Sulfide Odor (C1)	=	Moss Trim Lines (B16)			
	lized Rhizospheres along Living R					
	ence of Reduced Iron (C4) ent Iron Reduction in Tilled Soils (Crayfish Burr				
	Muck Surface (C7)		sible on Aerial Imagery (C9) Position (D2)			
	er (Explain in Remarks)	Shallow Aqui				
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral				
Water-Stained Leaves (B9)		🔲 Sphagnum m	noss (D8) (LRR T, U)			
Field Observations:						
	Depth (inches):					
	Depth (inches):					
Saturation Present? Yes No	Depth (inches):	Wetland Hydrology Presen	t? Yes No			
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous inspec	ions), if available:				
Remarks:						

22.22	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: <u>30 x 30</u>)	% Cover	Species?	Status	Number of Dominant Species			
1				That Are OBL, FACW, or FAC: 0 (A)			
2				Total Number of Dominant			
3				Species Across All Strata: <u>1</u> (B)			
4							
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)			
6							
7				Prevalence Index worksheet:			
8				Total % Cover of: Multiply by:			
0	0% :	= Total Cov		OBL species <u>0</u> x 1 = <u>0</u>			
				FACW species 0 x 2 = 0			
50% of total cover: <u>0</u>	20% of	total cover	. 0	FAC species 25 x 3 = 75			
Sapling/Shrub Stratum (Plot size: <u>30 x 30</u>)	00		FAOL	FACU species 46 x 4 = 184			
1. Lolium perenne	20	<u> </u>	FACU	UPL species $0 \times 5 = 0$			
2. Cynodon dactylon	20	~	FACU				
3. Rumex crispus	15	 ✓ 	FAC	Column Totals: <u>71</u> (A) <u>259</u> (B)			
4. Glycine max	15	<u> </u>		Prevalence Index = $B/A = 3.65$			
_{5.} Ranunculus sp.	10			Hydrophytic Vegetation Indicators:			
6. Andropogon virginicus	10		FAC	1 - Rapid Test for Hydrophytic Vegetation			
7 Allium vineale	5		FACU				
8. Vicia americana	1		FACU	\square 2 - Dominance Test is >50%			
0	96%	= Total Cov		3 - Prevalence Index is ≤3.0 ¹			
50% of total array 18				Problematic Hydrophytic Vegetation ¹ (Explain)			
50% of total cover: <u>48</u>	20% of	total cover	19.2				
Herb Stratum (Plot size: 15 x 15)				¹ Indicators of hydric soil and wetland hydrology must			
1. Andropogon virginicus			FAC	be present, unless disturbed or problematic.			
2				Definitions of Four Vegetation Strata:			
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or			
4				more in diameter at breast height (DBH), regardless of			
5				height.			
6				Sapling/Shrub – Woody plants, excluding vines, less			
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
8							
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
10				Woody vine – All woody vines greater than 3.28 ft in			
11				height.			
12							
		= Total Cov	/er				
50% of total cover:	20% of	total cover	:				
Woody Vine Stratum (Plot size: 30 x 30)							
1							
2							
3							
4							
5				Hydrophytic Vegetation			
	= Total Cover			Vegetation Present? Yes No Yes			
	20% of total cover:						
Remarks: (If observed, list morphological adaptations bel	ow).						

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	n the absence	of indicators.)				
Depth	Matrix	0/		x Features	. 2	- (
<u>(inches)</u> 0 - 3	Color (moist) 5YR 3/3	%	Color (moist)	<u>% Type¹ Loc ²</u>		Loc	<u>Texture</u>	Remarks				
				20			Clay					
3 - 16	5YR 5/2	80	5YR 5/4	20	<u>C</u>	M	Clay					
		. <u> </u>										
-												
-												
-		<u> </u>			<u> </u>							
			Reduced Matrix, MS			ains.		PL=Pore Lining, M=Matrix.				
		able to all	LRRs, unless other					for Problematic Hydric Soils ³ :				
Histosol (. ,		Polyvalue Be		· / ·			luck (A9) (LRR O)				
Black His	bipedon (A2)		Thin Dark Su					luck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B)				
	n Sulfide (A4)		Loamy Gleye			. 0)		ont Floodplain Soils (F19) (LRR P, S, T)				
	Layers (A5)		Depleted Mat		()			lous Bright Loamy Soils (F20)				
	Bodies (A6) (LRR P	, T, U)	Redox Dark S	. ,	F6)			RA 153B)				
🔲 5 cm Mu	cky Mineral (A7) (Li	RR P, T, U)	Depleted Dar	k Surface	e (F7)			Red Parent Material (TF2)				
	esence (A8) (LRR U)	Redox Depre	•	-8)			hallow Dark Surface (TF12)				
	ck (A9) (LRR P, T)	- () ()	Marl (F10) (L			- 4 \	Other (Explain in Remarks)				
	l Below Dark Surfac ark Surface (A12)	e (ATT)	Depleted Och				T) ³ India	ators of hydrophytic vegetation and				
	airie Redox (A16) (I	MLRA 150						and hydrology must be present,				
	lucky Mineral (S1) (I		Delta Ochric			, -,		ess disturbed or problematic.				
	leyed Matrix (S4)		Reduced Ver			0A, 150B)	1					
	edox (S5)		Piedmont Flo	•	. ,	•						
	Matrix (S6)		Anomalous B	right Loa	imy Soils (F20) (MLR	A 149A, 153C	, 153D)				
	face (S7) (LRR P, S ayer (if observed):											
Type:												
	ches):						Hydric Soil	Present? Yes 🖌 No				
Remarks:												

Project/Site: Port of Little R	ock			City/County: Pul	aski Count	у	Sampling Date: 20	023-02-21	
Applicant/Owner: Port of Litt							Sampling Point: T		
Investigator(s): Jimmy Roge				Section, Townsh			<u>-</u>		
Landform (hillslope, terrace, et	cy. Ridge			Local relief (conc	ave convex	none). Convex	Slone	(%)· 20	
Subregion (LRR or MLRA): P			Lat: 34.6				Datur		
Soil Map Unit Name: RmC - I					Long			II. <u>1100 04</u>	
						NWI classifica			
Are climatic / hydrologic conditi									
Are Vegetation, Soil	, or Hyd	drology	significantl	y disturbed?	Are "Norma	I Circumstances" p	resent? Yes 🧹	No	
Are Vegetation, Soil	, or Hyd	drology	naturally p	roblematic?	(If needed, e	explain any answer	s in Remarks.)		
SUMMARY OF FINDING	∋S – Atta	ch site m	ap showin	g sampling po	oint locatio	ons, transects	, important fea	tures, etc.	
Hydrophytic Vegetation Prese Hydric Soil Present? Wetland Hydrology Present? Remarks:	ent?	Yes Yes Yes	No 🔽 No 🔽 No 🔽	- Is the Sar within a V	npled Area Vetland?	Yes	No		
HYDROLOGY									
Wetland Hydrology Indicato							tors (minimum of tw	<u>/o required)</u>	
Primary Indicators (minimum	of one is rec					Surface Soil			
Surface Water (A1)			uatic Fauna (B [.] rl Deposits (B1			Drainage Pat	etated Concave Su	mace (Bo)	
$\square Saturation (A3)$			drogen Sulfide			Moss Trim Li			
Water Marks (B1)			-	heres along Living	Roots (C3)		Vater Table (C2)		
Sediment Deposits (B2)			sence of Redu		()	Crayfish Burr			
Drift Deposits (B3)				ction in Tilled Soils	(C6)		sible on Aerial Imag	gery (C9)	
Algal Mat or Crust (B4)							Position (D2)		
Iron Deposits (B5)									
Inundation Visible on Aer	rial Imagery	(B7)				FAC-Neutral	Test (D5)		
Water-Stained Leaves (B	39)					Sphagnum m	oss (D8) (LRR T, U	J)	
Field Observations:									
Surface Water Present?	Yes	_ No 🖌	Depth (inche	s):					
Water Table Present?	Yes	No 🔽	Depth (inche	s):					
Saturation Present?	Yes	No 🔽	Depth (inche	s):	Wetland H	lydrology Presen	t? Yes	No 🖌	
(includes capillary fringe) Describe Recorded Data (stre	eam gauge,	monitoring v	vell, aerial pho	tos, previous inspe	ctions), if ava	ailable:			
, , , , , , , , , , , , , , , , , , ,	0 0 /	0	, I		,,				
Remarks:									
	Absolute	Dominant	Indicator	Dominance Test worksheet:					
--	----------	-------------	-----------	---					
Tree Stratum (Plot size: 30 x 30)	% Cover	Species?	Status	Number of Dominant Species					
1				That Are OBL, FACW, or FAC: 2 (A)					
2				Total Number of Dominant					
3				Species Across All Strata: <u>4</u> (B)					
4				Percent of Dominant Species					
5				That Are OBL, FACW, or FAC: 50 (A/B)					
6									
7				Prevalence Index worksheet:					
8				Total % Cover of: Multiply by:					
	:	= Total Cov	ver	OBL species $0 \times 1 = 0$					
50% of total cover:	20% of	total cover	:	FACW species $0 \times 2 = 0$					
Sapling/Shrub Stratum (Plot size: 30 x 30)				FAC species $\frac{30}{75}$ x 3 = $\frac{90}{200}$					
1. Quercus falcata	20	~	FACU	FACU species $\frac{75}{2}$ x 4 = $\frac{300}{2}$					
2. Liquidambar styraciflua	15	~	FAC	UPL species 0 x 5 = 0					
3. Quercus nigra	10	~	FAC	Column Totals: <u>105</u> (A) <u>390</u> (B)					
4				Prevalence Index = $B/A = 3.71$					
5									
6				Hydrophytic Vegetation Indicators:					
7				1 - Rapid Test for Hydrophytic Vegetation					
				└ 2 - Dominance Test is >50%					
8	45%	= Total Cov		\square 3 - Prevalence Index is $\leq 3.0^{1}$					
FOW of total accurate 22.5				Problematic Hydrophytic Vegetation ¹ (Explain)					
50% of total cover: <u>22.5</u>	20% 01	total cover	<u> </u>						
Herb Stratum (Plot size: <u>30 x 30</u>)				¹ Indicators of hydric soil and wetland hydrology must					
1				be present, unless disturbed or problematic.					
2				Definitions of Four Vegetation Strata:					
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or					
4				more in diameter at breast height (DBH), regardless of					
5				height.					
6				Sapling/Shrub – Woody plants, excluding vines, less					
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.					
8				Herb – All herbaceous (non-woody) plants, regardless					
9				of size, and woody plants less than 3.28 ft tall.					
10				Woody vine – All woody vines greater than 3.28 ft in					
11				height.					
12									
	:	= Total Cov	ver						
50% of total cover:		total cover							
Woody Vine Stratum (Plot size: 30 x 30)									
1. Lonicera japonica	50	~	FACU						
2 Rubus trivialis	5		FACU						
3. Smilax bona-nox	5		FAC						
4	·								
5	60%	= Total Cov		Hydrophytic Vegetation					
500/ - 54-4-1 30				Present? Yes No V					
50% of total cover: <u>30</u>		total cover	<u> </u>						
Remarks: (If observed, list morphological adaptations belo	w).								

Profile Desc	ription: (Describe	to the dept	n needed to docu	ment the i	ndicator	or confirm	n the absence	of indicators.)	
Depth	Matrix		Redo	x Features	5				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rem	arks
0 - 18	7.5YR 2.5/3	100					Silt		
-						·			
						·			<u> </u>
-						<u> </u>	. <u></u> .		
-									
						·			
-									
						·			<u> </u>
	oncentration, D=De					rains.		PL=Pore Lining, M	
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless othe	rwise note	ed.)		Indicators	for Problematic Hy	ydric Soils':
Histosol	(A1)		Polyvalue Be	elow Surfac	ce (S8) (I	LRR S, T, l	U) <u> </u> 1 cm N	/luck (A9) (LRR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9)	(LRR S,	T, U)	2 cm N	/luck (A10) (LRR S)	
Black Hi	stic (A3)		Loamy Muck				Reduc	ed Vertic (F18) (out	side MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	-					(F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		,			alous Bright Loamy S	
	Bodies (A6) (LRR I	P. T. U)	Redox Dark	. ,	6)			RA 153B)	
	icky Mineral (A7) (L		Depleted Da	•				arent Material (TF2)	
	esence (A8) (LRR I		Redox Depre		. ,			Shallow Dark Surface	
	ick (A9) (LRR P, T)		Marl (F10) (L		5)			(Explain in Remarks	, ,
	d Below Dark Surfa				(MI RA 1	51)			')
·	ark Surface (A12)	50 (7117)					T) ³ Indic	cators of hydrophytic	vegetation and
	rairie Redox (A16) (land hydrology mus	-
	lucky Mineral (S1)		Delta Ochric					ess disturbed or pro	
	Bleyed Matrix (S4)	LKK 0, 3)							
	Redox (S5)		Piedmont Flo	•		•		4500)	
=	Matrix (S6)	o T IN		Sright Loan	ny Solis ((F20) (IVILR	RA 149A, 153C	, 153D)	
	rface (S7) (LRR P,	-							
	Layer (if observed)):							
Туре:									
Depth (in	ches):						Hydric Soil	Present? Yes	No 🖌
Remarks:									

Project/Site: Port of Little Rock	City/County: Jefferson County Sampling Date: 2023-02-2					
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T2-03					
	Section, Township					
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ve. convex. none); None	Slope (%): 1			
		,	Datum: WGS 84			
Soil Map Unit Name: 28 - Pheba silt loam, 0 to 2 p	ercent slopes	NWI classifica				
Are climatic / hydrologic conditions on the site typical for						
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology		(If needed, explain any answer				
SUMMARY OF FINDINGS – Attach site ma						
	p showing sampling por		, important leatures, etc.			
Hydrophytic Vegetation Present? Yes	No Is the Sam	pled Area				
Hydric Soil Present? Yes	No within a W	etland? Yes	No 🖌			
Wetland Hydrology Present? Yes Remarks:	No					
Agricultural field						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil	Cracks (B6)			
	tic Fauna (B13)		jetated Concave Surface (B8)			
	Deposits (B15) (LRR U)	Drainage Pat				
	ogen Sulfide Odor (C1) zed Rhizospheres along Living F	Moss Trim Li	nes (B16) Water Table (C2)			
	ence of Reduced Iron (C4)	Crayfish Burr				
	nt Iron Reduction in Tilled Soils (sible on Aerial Imagery (C9)			
	Muck Surface (C7)	Geomorphic				
Iron Deposits (B5)	r (Explain in Remarks)	Shallow Aqui	tard (D3)			
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	. ,			
Water-Stained Leaves (B9)		Sphagnum m	noss (D8) (LRR T, U)			
Field Observations:	Donth (inchoo):					
	Depth (inches): Depth (inches):					
	Depth (inches):	Wetland Hydrology Presen	t?Yes No 🖌			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring we	II, aerial photos, previous inspec	tions), if available:				
Remarks:						

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 10 x 10)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				
8				$\begin{array}{c c} \hline Total \% Cover of: \\ \hline OBL species \\ 0 \\ x \\ 1 = 0 \\ \end{array}$
	:	= Total Cov	er	
50% of total cover:	20% of	total cover		FACW species $\frac{3}{72}$ x 2 = $\frac{6}{210}$
Sapling/Shrub Stratum (Plot size: 10 x 10)				FAC species $\frac{73}{7}$ x 3 = $\frac{219}{20}$
1				FACU species $\frac{7}{2}$ x 4 = $\frac{28}{2}$
2				UPL species $0 \times 5 = 0$
3				Column Totals: <u>83</u> (A) <u>253</u> (B)
4				Prevalence Index = $B/A = 3.05$
5				
				Hydrophytic Vegetation Indicators:
6				☐ 1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^1$
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover:		
Herb Stratum (Plot size: 10 x 10)	70			¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	70	<u> </u>	FAC	be present, unless disturbed or problematic.
2. unidentified aster	15			Definitions of Four Vegetation Strata:
3. Cynodon dactylon	5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Vicia villosa	3			more in diameter at breast height (DBH), regardless of
5. Dichanthelium clandestinum	3		FACW	height.
_{6.} Cerastium arvense	2		FACU	Sapling/Shrub – Woody plants, excluding vines, less
7. Dichanthelium dichotomum	2		FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
_{8.} Plantago major	1		FAC	Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in height.
12.				noight
	101%	= Total Cov	er	
50% of total cover: 50.5		total cover:		
Woody Vine Stratum (Plot size: 10 x 10)	20 /0 01			
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes V No
50% of total cover:	20% of	total cover:		
Remarks: (If observed, list morphological adaptations belo	w).			
1				

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	the absence	of indicato	ors.)	
Depth	Matrix		Redo	x Feature	S					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 1	5YR 3/1	100					Sand			
1 - 18	5YR 5/6	100					Sand			
					·					
-										
-										
¹ Type: C=C	oncentration, D=Dep	letion, RM=R	Reduced Matrix, MS	S=Masked	Sand Gr	ains.			ining, M=Mat	
Hydric Soil	Indicators: (Applic	able to all Ll	RRs, unless other	wise not	ed.)		Indicators	for Proble	matic Hydric	Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, U	J) 1 cm N	luck (A9) (L	.RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su				· _	luck (A10)		
Black Hi	stic (A3)		Loamy Muck	Mineral	(F1) (LRR	2 0)	Reduce	ed Vertic (F	18) (outside	MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)					Loamy Soils	(F20)
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F	6)			RA 153B)		
	ıcky Mineral (A7) (Li		Depleted Dar	k Surface	(F7)			arent Materi	. ,	
Muck Pr	esence (A8) (LRR U)	Redox Depre	ssions (F	8)		L Very S	hallow Dark	Surface (TF	12)
	ick (A9) (LRR P, T)		Marl (F10) (L	•			U Other (Explain in F	Remarks)	
	d Below Dark Surfac	e (A11)	Depleted Oct							
	ark Surface (A12)		Iron-Mangan				•		Irophytic vege	
	rairie Redox (A16) (I		—			, U)		-	ogy must be p	
	lucky Mineral (S1) (I	_RR O, S)	Delta Ochric					ess disturbe	d or problem	atic.
	Bleyed Matrix (S4)		Reduced Ver							
	Redox (S5)		Piedmont Flo							
	Matrix (S6)		Anomalous E	right Loar	ny Soils (F20) (MLR	A 149A, 153C,	, 153D)		
	rface (S7) (LRR P, S									
Restrictive	Layer (if observed)									
Туре:										
Depth (in	ches):						Hydric Soil	Present?	Yes	No 🖌
Remarks:										

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02-21
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T2-04
Investigator(s): Jimmy Rogers	Section, Township, Range: S28 T1N R11W
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope (%): 0
Subregion (LRR or MLRA): P 133B Lat: 34.67	· · · · · · · · · · · · · · · · · · ·
Soil Map Unit Name: Ko - Keo silt loam, 0 to 1 percent slopes	
Are climatic / hydrologic conditions on the site typical for this time of ye	
	disturbed? Are "Normal Circumstances" present? Yes <u>//</u> No
Are Vegetation, Soil, or Hydrology naturally pr	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes 🖌 No	
Hydric Soil Present? Yes No 🖌	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No _	within a wetland? Fes No
Remarks:	
HYDROLOGY	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1)	
High Water Table (A2)	
Saturation (A3)	
Water Marks (B1) Oxidized Rhizosph	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	tion in Tilled Soils (C6)
Algal Mat or Crust (B4)	
Iron Deposits (B5)	
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	р
Water Table Present? Yes <u>No</u> Depth (inches	
Saturation Present? Yes No 🖌 Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	s, previous inspections), if available:

00	00	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 20 x	20)		Species?		Number of Dominant Species
1. Liquidambar styraciflua		20	<u> </u>	FAC	That Are OBL, FACW, or FAC: <u>5</u> (A)
2. Quercus nigra		10	~	FAC	Total Number of Dominant
3. Albizia julibrissin		5			Species Across All Strata: 7 (B)
4					
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4 (A/B)
6.					
7.					Prevalence Index worksheet:
8					Total % Cover of: Multiply by:
· · · · · · · · · · · · · · · · · · ·		35%	= Total Cov	/or	OBL species $0 x 1 = 0$
	50% of total cover: 17.5				FACW species <u>15</u> x 2 = <u>30</u>
Oralian (Ohash Ohashara (Distain)		20% 01	total cover		FAC species 75 x 3 = 225
Sapling/Shrub Stratum (Plot siz	e: 20 x 20)	20	~	FAC	FACU species 20 x 4 = 80
1. Liquidambar styraciflua		30			UPL species $0 \times 5 = 0$
			 ✓ 	FAC	Column Totals: 110 (A) 335 (B)
3					
4					Prevalence Index = B/A = 3.05
5					Hydrophytic Vegetation Indicators:
6					1 - Rapid Test for Hydrophytic Vegetation
7					\checkmark 2 - Dominance Test is >50%
8				. <u></u>	\square 3 - Prevalence Index is $\leq 3.0^{1}$
· · ·			= Total Cov	/er	
	50% of total cover: 22.5				Problematic Hydrophytic Vegetation ¹ (Explain)
20 x		20% 01			
Herb Stratum (Plot size: 20 x 1 Arundinaria gigantea		15			¹ Indicators of hydric soil and wetland hydrology must
			<u> </u>	FACW	be present, unless disturbed or problematic.
2					Definitions of Four Vegetation Strata:
3					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4					more in diameter at breast height (DBH), regardless of
5					height.
6					Sapling/Shrub – Woody plants, excluding vines, less
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8					
					Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9					
10		·			Woody vine – All woody vines greater than 3.28 ft in
11		·			height.
12		450/			
			= Total Cov		
	50% of total cover: 7.5	20% of	total cover	: 3	
Woody Vine Stratum (Plot size:	20 x 20)				
_{1.} Lonicera japonica		15	~	FACU	
2. Rubus trivialis		5	~	FACU	
3					
4.					
		·			
5		20%	= Total Cov		Hydrophytic Vegetation
	500/ (L.L. 10				Present? Yes <u>V</u> No
	50% of total cover: 10		total cover	:	
Remarks: (If observed, list mor	phological adaptations belo	w).			

Profile Description	1: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature				
	lor (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3 5YR	2.5/2	100					Silt	
3 - 18 5YR	4/4	100					Silt	
·		·						
		·		<u> </u>	·	·		
-								
		·		·	· - <u></u>	·		
¹ Type: C=Concentr	ation, D=Dep	letion, RM=R	educed Matrix, MS	S=Masked	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil Indicat	ors: (Applic	able to all Ll	RRs, unless other	rwise not	ed.)		Indicators	for Problematic Hydric Soils ³ :
Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfid Stratified Layer Organic Bodies 5 cm Mucky Mi Muck Presence 1 cm Muck (A9 Depleted Below Thick Dark Surf Coast Prairie R Sandy Mucky M Sandy Gleyed	3) de (A4) s (A5) c (A6) (LRR P e (A6) (LRR U e (A8) (LRR U) (LRR P, T) v Dark Surface face (A12) edox (A16) (N /ineral (S1) (L Matrix (S4)	RR P, T, U)) e (A11) ILRA 150A)	Delta Ochric Reduced Ver	Irface (S9 y Mineral ed Matrix (trix (F3) Surface (F k Surface essions (F RR U) nric (F11) ese Mass ice (F13) (F17) (ML tic (F18)) (LRR S, (F1) (LRF (F2) =6) (F7) 8) (MLRA 1 (LRR P, T -RA 151) (MLRA 15	T, U) 2 O) 51) LRR O, P, 7 U) 50A, 150B)	2 cm l Reduc Piedm Anom (ML Red P Very S Other T) ³ India we unl	Muck (A9) (LRR O) Muck (A10) (LRR S) eed Vertic (F18) (outside MLRA 150A,B) nont Floodplain Soils (F19) (LRR P, S, T) alous Bright Loamy Soils (F20) RA 153B) Parent Material (TF2) Shallow Dark Surface (TF12) (Explain in Remarks) cators of hydrophytic vegetation and tland hydrology must be present, ess disturbed or problematic.
Sandy Redox (Piedmont Flo	•	• •	•		
Stripped Matrix	. ,		Anomalous E	Bright Loa	my Soils (F20) (MLR	A 149A, 153C	c, 153D)
Dark Surface (S							1	
Restrictive Layer (if observed):							
Туре:								
Depth (inches):							Hydric Soil	Present? Yes No _
Remarks:								

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02-21
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T2-05
	Section, Township, Range: S27 T1N R11W
	Local relief (concave, convex, none): Concave Slope (%): 2
Subregion (LRR or MLRA): P 133B Lat: 34.62	· · · · · · · · · · · · · · · · · · ·
Soil Map Unit Name: No - Norwood silty clay loam	NWI classification: Datum
Are climatic / hydrologic conditions on the site typical for this time of y	
	y disturbed? Are "Normal Circumstances" present? Yes <u>V</u> No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes 🖌 No	In the Completion
Hydric Soil Present? Yes Ves No	
Wetland Hydrology Present? Yes 🖌 No	
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1)	
High Water Table (A2)	
Saturation (A3)	
	heres along Living Roots (C3)
Sediment Deposits (B2)	ced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5)	
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 _ Yes _ No Depth (inchest)	a), 12
Water Table Present? Yes No _ Depth (inches) Saturation Present? Yes No Depth (inches)	
Saturation Present? Yes <u>No</u> Depth (inches (includes capillary fringe)	s): Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	

20 - 20		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 x 30</u>)		Species?		Number of Dominant Species
1. Populus deltoides	10	 ✓ 	FAC	That Are OBL, FACW, or FAC: _2 (A)
2. Celtis laevigata	10	 ✓ 	FACW	Total Number of Dominant
3. Nyssa sylvatica	10	~	FAC	Species Across All Strata: <u>2</u> (B)
4				
5				Percent of Dominant Species That Are OBL_EACW_ or EAC: 100 (A/B)
				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7			·	Total % Cover of: Multiply by:
8			·	OBL species 0 x 1 = 0
		= Total Co		FACW species $30 \times 2 = 60$
50% of total cover: <u>15</u>	20% of	total cover	r: 6	
Sapling/Shrub Stratum (Plot size: 30 x 30)				
1				FACU species 0 x 4 = 0
2				UPL species 0 x 5 = 0
				Column Totals: <u>55</u> (A) <u>135</u> (B)
3				0.45
4				Prevalence Index = $B/A = 2.45$
5				Hydrophytic Vegetation Indicators:
6			·	1 - Rapid Test for Hydrophytic Vegetation
7			. <u></u>	☑ 2 - Dominance Test is >50%
8				$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$
	0% :	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 0				
20 x 20	20 /0 01			1
	20	~	FACW	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
2	- <u> </u>		·	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10			·	Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
	20% :	= Total Co	ver	
50% of total cover: 10	20% of			
Woody Vine Stratum (Plot size: <u>30 x 30</u>)	2070.01		··	
Berchemia scandens	5		EAC	
··	<u> </u>		FAC	
2			·	
3				
4				
5.				Hydrophytic
·	5%	= Total Co	vor	Vegetation
50% of total cover: 2.5		total cover		Present? Yes <u>V</u> No
			· <u>·</u>	
Remarks: (If observed, list morphological adaptations below	ow).			

Profile Desc	cription: (Describe	to the dept	n needed to docum	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-		<u> </u>						
-								
-								
-								
-								
				·				
-				·				
	oncentration, D=De					ains.		PL=Pore Lining, M=Matrix.
	Indicators: (Appli	cable to all L	_					for Problematic Hydric Soils ³ :
Histosol	. ,		Polyvalue Be					luck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					luck (A10) (LRR S)
	istic (A3)		Loamy Mucky			(0)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye		(FZ)			ont Floodplain Soils (F19) (LRR P, S, T) lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR	р т ні	Redox Dark S		E 6)			RA 153B)
	ucky Mineral (A7) (L		Depleted Dark	`	,			arent Material (TF2)
	resence (A8) (LRR		Redox Depre					hallow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (L		•)			Explain in Remarks)
	d Below Dark Surfa		Depleted Och		(MLRA 1	51)	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Thick D	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P, 1	T) ³ Indica	ators of hydrophytic vegetation and
Coast P	rairie Redox (A16)	(MLRA 150A)	🛛 🔲 Umbric Surfa	ce (F13)	(LRR P, T	', U)	wetl	and hydrology must be present,
Sandy N	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (MI	LRA 151)		unle	ess disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5)		Piedmont Flo					
	d Matrix (S6)	- - ···	Anomalous B	Bright Loa	my Soils (F20) (MLR A	A 149A, 153C,	, 153D)
	urface (S7) (LRR P,	-						
_	Layer (if observed):						
Туре:								
Depth (in	ches):						Hydric Soil	Present? Yes 🥙 No
Remarks:								
No pit d	lug due to in	undatior	; hydric soil	s assi	umed.			
	J		, , ,					

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02-21
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T2-06
Investigator(s): Jimmy Rogers	Section, Township, Range: S27 T1N R11W
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope (%): 2
Subregion (LRR or MLRA): P 133B Lat: 34.67	
Soil Map Unit Name: No - Norwood silty clay loam	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	
	/ disturbed? Are "Normal Circumstances" present? YesNo
Are Vegetation, Soil, or Hydrology naturally pro	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>Ves</u> No	
Hydric Soil Present? Yes 🖌 No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Sediment Deposits (B2)	3) Sparsely Vegetated Concave Surface (B8) 5) (LRR U) Drainage Patterns (B10) Odor (C1) Moss Trim Lines (B16) neres along Living Roots (C3) Dry-Season Water Table (C2) ced Iron (C4) Crayfish Burrows (C8) ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) e (C7) Geomorphic Position (D2)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No _ Water Table Present? Yes No _ Saturation Present? Yes No _ Includes capillary fringe) Depth (inches Describe Recorded Data (stream gauge, monitoring well, aerial photo Remarks:	S): Wetland Hydrology Present? Yes No

Sampling Point:	T2-06
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		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 20 x	20)		Species?		Number of Dominant Species	
1. Liquidambar styraciflua	,	20	~	FAC		(A)
2. Ulmus americana		10	 ✓ 	FAC		(~)
		·	· · · · · · · · · · · · · · · · · · ·		Total Number of Dominant	
3. Celtis laevigata		10	<u> </u>	FACW	Species Across All Strata: 6	(B)
4 Quercus nigra		10	 ✓ 	FAC		
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 100	(A/B)
					That Ale OBL, FACW, OF FAC. 100	(A/D)
6					Prevalence Index worksheet:	
7		·			Total % Cover of: Multiply by:	
8						-
		50% :	= Total Cov	er		-
	50% of total cover: 25	20% of	total cover	10	FACW species 25 x 2 = 50	-
Sapling/Shrub Stratum (Plot siz					FAC species 50 x 3 = 150	_
	e: 20 x 20)	10		EVO	FACU species $0 x 4 = 0$	
1. Liquidambar styraciflua		10	<u> </u>	FAC	UPL species $0 \times 5 = 0$	-
2						-
3					Column Totals: <u>75</u> (A) <u>200</u>	(B)
4					Prevalence Index = B/A = 2.67	-
5		·			Hydrophytic Vegetation Indicators:	
6					1 - Rapid Test for Hydrophytic Vegetation	
7					\checkmark 2 - Dominance Test is >50%	
8.						
8					3 - Prevalence Index is ≤3.0 ¹	
	_		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain	ı)
	50% of total cover: 5	20% of	total cover:	2		
Herb Stratum (Plot size: 20 x	20)				¹ Indicators of hydric soil and wetland hydrology m	uet
		15	~	FACW	be present, unless disturbed or problematic.	usi
		5	~		Definitions of Four Vegetation Strata:	
2. <u>ourex sp.</u>		5			Definitions of Four vegetation Strata:	
3					Tree – Woody plants, excluding vines, 3 in. (7.6 c	m) or
4					more in diameter at breast height (DBH), regardle	
5					height.	
6					Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall.	less
7						
8					Herb – All herbaceous (non-woody) plants, regard	dless
9					of size, and woody plants less than 3.28 ft tall.	
10						
					Woody vine – All woody vines greater than 3.28 f	ft in
11		· <u> </u>			height.	
12		·				
		<u>20%</u> :	= Total Cov	er		
	50% of total cover: 10	20% of	total cover:	4		
Woody Vine Stratum (Plot size:						
1 unidentifed woody vine)	5				
			<u> </u>			
2						
3						
4.						
··· <u></u>		·				
5		F 0/			Hydrophytic	
			Total Cov		Vegetation Present? Yes V No	
	50% of total cover: 2.5	20% of	total cover:	1	Present? Yes Vo No	
Remarks: (If observed, list mor	phological adaptations belo	w).				
		/				

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature		- 2	- ,	5
<u>(inches)</u> 0 - 3	Color (moist) 5YR 2.5/1	<u>%</u> 100	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture Silty Clay	Remarks
3 - 16	5YR 5/1	60	5YR 4/3	40	С	М	Clay	
-				. <u> </u>				
-				<u></u>				
-								
-								
				·				
1 Type: C=Cc	ncentration D=Der	letion RM:	Reduced Matrix, MS	S=Maske	d Sand Gr	ains	² Location:	PL=Pore Lining, M=Matrix.
			LRRs, unless other			uiii3.		for Problematic Hydric Soils ³ :
Histosol (A1)		Polyvalue Be	low Surfa	ace (S8) (L	.RR S, T, U	J) 🛛 1 cm N	/luck (A9) (LRR O)
	ipedon (A2)		Thin Dark Su					/luck (A10) (LRR S)
Black His			Loamy Muck		· / ·	l O)		ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mai					alous Bright Loamy Soils (F20)
-	Bodies (A6) (LRR F cky Mineral (A7) (L I		Redox Dark S		,			RA 153B) arent Material (TF2)
	esence (A8) (LRR L		Redox Depre					hallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	,	Marl (F10) (L	RR U)	,			(Explain in Remarks)
	Below Dark Surfac	e (A11)	Depleted Oct		•			
	rk Surface (A12)							ators of hydrophytic vegetation and
	airie Redox (A16) (ucky Mineral (S1) (, U)		land hydrology must be present, ess disturbed or problematic.
	leyed Matrix (S4)	LKK 0, 3)	Delta Ochric			0A. 150B)		ess disturbed of problematic.
	edox (S5)		Piedmont Flo					
	Matrix (S6)						A 149A, 153C	, 153D)
	face (S7) (LRR P, S							
	ayer (if observed).	:						
Type: Depth (inc	hes).						Hydric Soil	Present? Yes 🖌 No
Remarks:							Tryano con	
riomanio.								

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-02-20
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Township		
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ve, convex, none): None	Slope (%): 0
Subregion (LRR or MLRA): P 133B	Lat: 34.6787	Long: -92.1829	Datum: WGS 84
Soil Map Unit Name: No - Norwood silty c		NWI classifica	
Are climatic / hydrologic conditions on the site			
Are Vegetation, Soil, or Hydrold			
Are Vegetation, Soil, or Hydrolo		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach		· · · ·	
Hydric Soil Present? Yes	S No V S No V S No V Within a W		No
Wetland Hydrology Present? Yes Remarks:	s No		
Agricultural field.			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil	
Surface Water (A1)	Aquatic Fauna (B13)		getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pat	· · ·
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Li	nes (B16)
Water Marks (B1)	Oxidized Rhizospheres along Living R	loots (C3) 🔟 Dry-Season V	Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burr	()
$\square Drift Deposits (B3)$	Recent Iron Reduction in Tilled Soils (sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	Geomorphic Shallow Aqui	Position (D2)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)		=	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes N	o 🖌 Depth (inches):		
Water Table Present? Yes N	o 🖌 Depth (inches):		
Saturation Present? Yes <u>N</u> (includes capillary fringe)	o 🖌 Depth (inches):	Wetland Hydrology Presen	t? Yes No 🖌
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, previous inspec	tions), if available:	
Remarks:			

Sampling Point: 1	[2-07
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	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata: 1 (B)
4				
5				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species 0 x 1 = 0
		= Total Co		FACW species 0 $x = 0$
50% of total cover:	20% of	f total cover	r:	FAC species $2 \times 3 = 6$
Sapling/Shrub Stratum (Plot size: 30 x 30)				
1			. <u></u>	
2				UPL species 0 $x 5 = 0$
3				Column Totals: <u>57</u> (A) <u>226</u> (B)
4				Provolonoo Indox = P/4 = 3.96
5				Prevalence Index = B/A = <u>3.96</u>
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7			·	2 - Dominance Test is >50%
8			· <u> </u>	\Box 3 - Prevalence Index is $\leq 3.0^1$
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	f total cover	r:	
Herb Stratum (Plot size: 20 x 20)				¹ Indicators of hydric soil and wetland hydrology must
_{1.} Poa annua	50	~	FACU	be present, unless disturbed or problematic.
_{2.} Paspalum sp.	30	~		Definitions of Four Vegetation Strata:
_{3.} Ranunculus sp.	10			
	<u>10</u> 5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4 Cardamine hirsuta	5			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
4. Cardamine hirsuta 5. Cerastium fontanum	5 2 2		FAC	more in diameter at breast height (DBH), regardless of height.
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa	5 2 2		FAC	more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
 <u>4</u> Cardamine hirsuta <u>5</u> Cerastium fontanum <u>6</u> Vicia villosa 7. 	5 2 2		FAC	more in diameter at breast height (DBH), regardless of height.
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7.	5 2 2		FAC	 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
 4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7. 	5 2 2		FAC	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.
 <u>4</u> Cardamine hirsuta <u>5</u> Cerastium fontanum <u>6</u> Vicia villosa 7. 8. 	5 2 2		FAC	 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.
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7.	5 2 2 		FAC	 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
A. Cardamine hirsuta Cerastium fontanum Vicia villosa . .	5 2 2 		FAC	 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
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7.	5 2 2 		FAC	 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
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7	5 2 2 	 = Total Co	FAC	 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
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7	5 2 2 	 = Total Co	FAC	 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
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7. 8. 9. 10. 11. 12. 50% of total cover: 49.5 Woody Vine Stratum (Plot size: 30 x 30))	5 2 2 	= Total Co	FAC	 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
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7. 8. 9. 10. 11. 12. 50% of total cover: 49.5 Woody Vine Stratum (Plot size: 30 x 30) 1.	5 2 2 	= Total Co f total cover	FAC	 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
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7	5 2 2 	= Total Co f total cover	FAC	 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
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 x 30 1. 2. 3.	5 2 2 	= Total Co	FAC	 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
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7. 8. 9. 10. 11. 12. 50% of total cover: 49.5 Woody Vine Stratum (Plot size: 30 x 30) 1. 2. 3. 4.	5 2 2 	= Total Co	FAC	 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
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7. 8. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 x 30 1. 2. 3.	5 2 2 	Total Co	FAC	 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
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7. 8. 9. 10. 11. 12. 50% of total cover: 49.5 Woody Vine Stratum (Plot size: 30 x 30) 1. 2. 3. 4.	5 2 2 	= Total Co	FAC	 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.
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7. 8. 9. 10. 11. 12. 50% of total cover: 49.5 Woody Vine Stratum (Plot size: 30 x 30) 1. 2. 3. 4.	5 2 2 	= Total Co f total cover	FAC	 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
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7. 8. 9. 10. 11. 12. 50% of total cover: 49.5 Woody Vine Stratum (Plot size: 30 x 30) 1. 2. 3. 4. 5. 50% of total cover:	5 2 2 2 	= Total Co f total cover	FAC	 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.
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7.	5 2 2 	= Total Co f total cover = Total Co f total cover	FAC	 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? Yes No
4. Cardamine hirsuta 5. Cerastium fontanum 6. Vicia villosa 7. 8. 9. 10. 11. 12. 50% of total cover: 49.5 Woody Vine Stratum (Plot size: 30 x 30) 1. 2. 3. 4. 5. 50% of total cover:	5 2 2 	= Total Co f total cover = Total Co f total cover = Total Co f total cover f total cover	FAC	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? Yes No ophytic vegetation assumed lacking

Profile Desc	ription: (Describe	to the depth	needed to d	locument the	indicator	or confirm	n the absence of ind	icators.)	
Depth	Matrix			Redox Featur		. 2			
(inches)	Color (moist)		Color (mois	t) <u>%</u>	Type ¹	Loc ²	Texture	Remark	<u>s</u>
0 - 18	5GY 5/3	100					Loam		
-						<u> </u>			
-									
_						. <u> </u>			
							·		
-						·	·		
-									
_						<u> </u>			
¹ Type: C=Co	oncentration, D=De	pletion, RM=R	Reduced Matri	ix, MS=Maske	ed Sand G	ains.	² Location: PL=P	ore Lining, M=Ma	atrix.
Hydric Soil I	Indicators: (Applie	cable to all Ll	RRs, unless	otherwise no	ted.)		Indicators for Pr	oblematic Hydr	ic Soils ³ :
Histosol	(A1)		Polyvalı	ue Below Surf	ace (S8) (I	LRR S, T, U	J) 1 cm Muck (A	9) (LRR O)	
Histic Ep	pipedon (A2)			rk Surface (S			2 cm Muck (#		
Black Hi				Mucky Minera		R O)			e MLRA 150A,B)
	n Sulfide (A4)		=	Gleyed Matrix	(F2)			• •	19) (LRR P, S, T)
	Layers (A5)			d Matrix (F3)				right Loamy Soil	s (F20)
-	Bodies (A6) (LRR F		=	Dark Surface (d Dark Surfac	. ,		(MLRA 153	aterial (TF2)	
	icky Mineral (A7) (L esence (A8) (LRR I			Depressions (. ,			Dark Surface (T	E12)
	ick (A9) (LRR P, T)			10) (LRR U)	10)			n in Remarks)	112)
	Below Dark Surfac			d Ochric (F11) (MLRA 1	51)		in in Remarks)	
	ark Surface (A12)			nganese Mas			T) ³ Indicators of	of hydrophytic ve	getation and
	rairie Redox (A16) (MLRA 150A)		Surface (F13)				/drology must be	e present,
Sandy M	lucky Mineral (S1) ((LRR O, S)	Delta O	chric (F17) (M	ILRA 151)		unless dis	turbed or proble	matic.
	eleyed Matrix (S4)			d Vertic (F18)					
	ledox (S5)			nt Floodplain					
	Matrix (S6)	-	Anomal	ous Bright Loa	amy Soils	(F20) (MLR	RA 149A, 153C, 153D)	
	rface (S7) (LRR P, _ayer (if observed)								
_	Layer (il Observed)								
Type:							Undrie Seil Dress	nt? Vee	No 🖌
Depth (inc	cnes):						Hydric Soil Prese	nt? Yes	NO
Remarks:									

Project/Site: Port of Little Rock		City/County: P	ulaski County	Sampling Date: 2023-02-27
Applicant/Owner: Port of Little Ro				nsas Sampling Point: T2-08
		Section, Towns		
Landform (hillslope, terrace, etc.): FI	at	ncave, convex, none): Nor	ne Slope (%): 0	
Subregion (LRR or MLRA): P 133B				Datum: WGS 84
Soil Map Unit Name: Ko - Keo silt				ssification: none
Are climatic / hydrologic conditions o				
Are Vegetation, Soil,		-		
Are Vegetation, Soil,		-	(If needed, explain any a	
			· · · ·	sects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	v		
Hydric Soil Present?	Yes No		ampled Area	
Wetland Hydrology Present?	Yes No		Wetland? Yes	No <u>/</u>
Agricultural field.				
HYDROLOGY				
Wetland Hydrology Indicators:	is required, sheak all that a	(malu)	_	Indicators (minimum of two required)
Primary Indicators (minimum of one			=	e Soil Cracks (B6)
Surface Water (A1)	Aquatic Faur	s (B15) (LRR U)		ely Vegetated Concave Surface (B8) ge Patterns (B10)
\square Saturation (A3)		llfide Odor (C1)		Frim Lines (B16)
Water Marks (B1)		zospheres along Livin		eason Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C4)		sh Burrows (C8)
Drift Deposits (B3)	Recent Iron I	Reduction in Tilled So	ils (C6) 📃 Satura	tion Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck St	. ,		orphic Position (D2)
Iron Deposits (B5)	· ·	in in Remarks)		w Aquitard (D3)
Inundation Visible on Aerial Im	agery (B7)			eutral Test (D5)
Water-Stained Leaves (B9)				num moss (D8) (LRR T, U)
	s No 🖌 Depth (ii	nches).		
	s No Depth (ii			
	s No <u>✓</u> Depth (ii			Present?Yes No 🖌
(includes capillary fringe) Describe Recorded Data (stream g				
Describe Recorded Data (stream g	auge, monitoring well, aeria	priotos, previous ins	Jections), il available.	
Remarks:				

Tree Stratum (Plot size: 30 x 30)		Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2 3				Total Number of Dominant Species Across All Strata: 1 (B)
4				· · · · · · · · · · · · · · · · · · ·
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov		OBL species 0 $x = 0$
50% of total cover:	20% of	total cover	:	FACW species $\frac{0}{2}$ x 2 = $\frac{0}{6}$
Sapling/Shrub Stratum (Plot size: 30 x 30)				FAC species $\frac{2}{25}$ x 3 = $\frac{6}{100}$
1				FACU species $\frac{25}{2}$ x 4 = $\frac{100}{2}$
2				UPL species $\frac{0}{27}$ x 5 = $\frac{0}{100}$
3				Column Totals: <u>27</u> (A) <u>106</u> (B)
4				Prevalence Index = $B/A = 3.93$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^1$
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
<u>Herb Stratum</u> (Plot size: <u>20 x 20</u>) 1. Glycine max	30			¹ Indicators of hydric soil and wetland hydrology must
2 Paspalum sp.	30	<u> </u>		be present, unless disturbed or problematic.
2. Paspaulii sp. 3. Poa annua	20			Definitions of Four Vegetation Strata:
	10	<u> </u>	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Ranunculus sp.	5			more in diameter at breast height (DBH), regardless of height.
5. Cardamine hirsuta 6. Cerastium fontanum	2		FACU	neight.
 <u>Cerastium fontanum</u> Vicia villosa 	2		FAC	Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
				Woody vine – All woody vines greater than 3.28 ft in
11	·			height.
12	00%	= Total Cov		
F00/ - 64-4-1 49 5				
50% of total cover: <u>49.5</u> <u>Woody Vine Stratum</u> (Plot size: <u>30 x 30</u>)	20% of	total cover	19.0	
1				
2				
3	·			
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes No V
50% of total cover:		total cover	:	
Remarks: (If observed, list morphological adaptations belo	w).			
One dominant herb not identified due	e to do	rmancy	. Hydro	ophytic vegetation assumed lacking
due to other vegetation and lack of h	ydrolo	gy/hyd	ric soil	S
U	-			

Profile Desc	ription: (Describe	to the depth	needed to docur	ment the	indicator	or confir	m the absence	of indicato	rs.)	
Depth	Matrix			x Feature			_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 18	5GY 5/3	100					Loam			
-										
-										
-										
-										
-					·	·	<u> </u>			
-										
¹ Type: C=Co	oncentration, D=Dep	pletion. RM=F	Reduced Matrix, M	S=Maske	d Sand G	ains.	² Location:	PL=Pore L	ining, M=Matr	ix.
	Indicators: (Applie								matic Hydric	
Histosol			Polyvalue Be			RRST		luck (A9) (L	-	
	oipedon (A2)		Thin Dark Su					luck (A3) (L		
Black Hi			Loamy Muck							MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	-		(0)) (LRR P, S, T)
	Layers (A5)		Depleted Ma		(• _)			•	Loamy Soils	
	Bodies (A6) (LRR F	р. т. U)	Redox Dark	. ,	-6)			RA 153B)		(1 20)
-	cky Mineral (A7) (L		Depleted Da	•	,			arent Materi	ial (TF2)	
	esence (A8) (LRR I		Redox Depre		. ,				Surface (TF	12)
	ck (A9) (LRR P, T)	,	Marl (F10) (L		- /			Explain in F	•	,
	Below Dark Surfac	ce (A11)	Depleted Oc		(MLRA 1	51)			,	
	ark Surface (A12)	()	Iron-Mangan				P, T) ³ Indic	ators of hyd	drophytic vege	etation and
Coast Pi	airie Redox (A16) (MLRA 150A)	Umbric Surfa	ace (F13)	(LRR P, 1	r, U)	wet	land hydrolo	ogy must be p	present,
Sandy N	lucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (MI	RA 151)		unle	ess disturbe	d or problema	atic.
Sandy G	leyed Matrix (S4)		Reduced Ver	rtic (F18)	(MLRA 1	50A, 150E	3)			
Sandy R	edox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 1	49A)			
Stripped	Matrix (S6)		Anomalous E	Bright Loa	my Soils ((F20) (ML	RA 149A, 153C	, 153D)		
	rface (S7) (LRR P,									
Restrictive I	_ayer (if observed)	:								
Туре:										
Depth (ind	ches):						Hydric Soil	Present?	Yes	No 🖌
Remarks:	,									

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-03-01
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T2-09
	Section, Township, Range: S27 T1N R11W
	Local relief (concave, convex, none): Concave Slope (%): 1
Subregion (LRR or MLRA): P 133B Lat: 34.6	· · · · · · · · · · · · · · · · · · ·
Soil Map Unit Name: Ko - Keo silt loam, 0 to 1 percent slopes	•
Are climatic / hydrologic conditions on the site typical for this time of y	
	y disturbed? Are "Normal Circumstances" present? Yes <u>//</u> No
Are Vegetation, Soil, or Hydrology naturally pr	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>Ves</u> No	Is the Sampled Area
Hydric Soil Present? Yes 🖌 No	
Wetland Hydrology Present? Yes <u>V</u> No	
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)	13)
High Water Table (A2) Marl Deposits (B1	5) (LRR U) Drainage Patterns (B10)
Saturation (A3)	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1)	heres along Living Roots (C3)
Sediment Deposits (B2)	iced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	e (C7)
Iron Deposits (B5) Other (Explain in F	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	s): <u>12+</u>
Water Table Present? Yes No 🔽 Depth (inches	s):
Saturation Present? Yes No <u>'</u> Depth (inches (includes capillary fringe)	s): Wetland Hydrology Present? Yes <u>/</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:
Remarks:	

Sampling Point: T	2-09
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	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2				
3				Total Number of Dominant Species Across All Strata: 1 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				$\begin{array}{c c c c c c c c c c c c c c c c c c c $
	;	= Total Cov	ver	FACW species 0 $x^2 = 0$
50% of total cover:	20% of	total cover	:	
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 0 $x = 0$ FAC U species 0 $x = 0$
1. Cephalanthus occidentalis	50	 ✓ 	OBL	
2	<u> </u>			UPL species $\frac{0}{50}$ x 5 = $\frac{0}{50}$
3				Column Totals: <u>50</u> (A) <u>50</u> (B)
4				Prevalence Index = B/A = <u>1.0</u>
5				Hydrophytic Vegetation Indicators:
6				 ✓ 1 - Rapid Test for Hydrophytic Vegetation
7				\square 2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^1$
	50%	= Total Cov	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 25.0				
Herb Stratum (Plot size: 30 ft r)				
1				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8 9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
50% (1.1.1		= Total Cov		
50% of total cover:	20% 01	total cover	:	
Woody Vine Stratum (Plot size: <u>30 ft r</u>)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	ver	Vegetation Present? Yes Ves No
50% of total cover:	20% of	total cover	:	Present? Yes V No
Remarks: (If observed, list morphological adaptations below	ow).			

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
-								
-								
-								
-								
-								
	oncentration, D=Dep					ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless othe	wise not	ed.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be) <u> </u>	luck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					luck (A10) (LRR S)
	stic (A3)		Loamy Muck	-		R O)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma					lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark	•	,			RA 153B)
	ucky Mineral (A7) (L		Depleted Da		. ,			arent Material (TF2)
	esence (A8) (LRR I	(ר			8)			hallow Dark Surface (TF12)
	uck (A9) (LRR P, T)	o (A11)	Marl (F10) (L	•		E4)		Explain in Remarks)
	d Below Dark Surfac ark Surface (A12)	le (ATT)	Depleted Ocl				T) ³ India	ators of hydrophytic vegetation and
	rairie Redox (A16) (MI RA 150A)						and hydrology must be present,
	/ucky Mineral (S1) (Delta Ochric			, 0)		ess disturbed or problematic.
	Bleyed Matrix (S4)		Reduced Ver			(0A 150R)	unic	
	Redox (S5)		Piedmont Flo				9A)	
	Matrix (S6)						A 149A, 153C,	153D)
	rface (S7) (LRR P, 3	S. T. U)		ingin Loui		. 20) (210		1002)
	Layer (if observed)	-						
Type:	,							
•••	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:	unco).							
No pit d	ug due to ini	undation	; hydric soll	s assu	imed.			

Project/Site: Port of Little Rock	_ City/County: Pulaski County Sampling Date: 2023-03-01						
Applicant/Owner: Port of Little Rock		State: Arkansas Sampling Point: T2-10					
Investigator(s): Jimmy Rogers	Section, Township, Range: S2						
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, none): None Slope (%): 1						
Subregion (LRR or MLRA): P 133B Lat: 34.6	7862 Lona: -9	92.17144 Datum: WGS 84					
Soil Map Unit Name: Ko - Keo silt loam, 0 to 1 percent slopes		NWI classification: none					
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🖌 No 🤇 (lf no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly							
Are Vegetation, Soil, or Hydrology naturally p		xplain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locatio	ns, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No							
Hydric Soil Present? Yes 🖌 No	is the balliplet Area	Yes V No					
Wetland Hydrology Present? Yes 🖌 No	within a wettand?	Yes No					
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	1	Surface Soil Cracks (B6)					
Surface Water (A1)		Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)		Drainage Patterns (B10)					
Saturation (A3)		Moss Trim Lines (B16)					
	heres along Living Roots (C3)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)		Crayfish Burrows (C8)					
Drift Deposits (B3)	ction in Tilled Soils (C6)	Geomorphic Position (D2)					
$\square \text{ Iron Deposits (B5)} \qquad \square \text{ Other (Explain in Lemma 2)}$	()	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	(charlo)	FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)					
Field Observations:							
Surface Water Present? Yes 🖌 No Depth (inches	s): <u>2</u>						
Water Table Present? Yes <u></u> No Depth (inches	s): <u>6</u>						
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches (includes capillary fringe)		ydrology Present? Yes 🖌 No					
Describe Recorded Data (stream gauge, monitoring well, aerial pho	os, previous inspections), if avai	lable:					
Remarks:							

		Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 2 ((A)
2				Total Number of Dominant	
3				Species Across All Strata: 2 ((B)
4				Percent of Dominant Species	
5					(A/B)
6				Prevalence Index worksheet:	
7					
8				$\begin{array}{c c} \hline Total & Cover of: \\ \hline OBL species \\ \hline 0 \\ \hline \end{array} \begin{array}{c} Multiply by: \\ x 1 = \\ \hline \end{array}$	
	:	= Total Co	ver		
50% of total cover:	20% of	total cover	:	FACW species 30 $x_2 = 60$ FAC species 40 $x_3 = 120$	
Sapling/Shrub Stratum (Plot size: 30 ft r)					
1				FACU species 0 $x 4 = 0$	
2				UPL species $0 \times 5 = 0$	
3				Column Totals: <u>70</u> (A) <u>180</u>	(B)
4				Prevalence Index = $B/A = 2.57$	
5					
6				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				\square 3 - Prevalence Index is ≤3.0 ¹	
				Problematic Hydrophytic Vegetation ¹ (Explain))
50% of total cover:	20% of	total cover	:		
Herb Stratum (Plot size: <u>15 ft r</u>)	20			¹ Indicators of hydric soil and wetland hydrology mu	ust
1. Rumex crispus	30	<u> </u>	FAC	be present, unless disturbed or problematic.	
2. Sesbania herbacea	30	~	FACW	Definitions of Four Vegetation Strata:	
3. Andropogon virginicus	10		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	n) or
4. Ranunculus sp.				more in diameter at breast height (DBH), regardles	
5. unidentified grass	10			height.	
_{6.} Geranium sp.	5			Sapling/Shrub – Woody plants, excluding vines, le	ess
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regard	less
9				of size, and woody plants less than 3.28 ft tall.	1000
10				We should a Allow should be made to the solution of the soluti	
11				Woody vine – All woody vines greater than 3.28 ft height.	in
12.	·			holght.	
	95%	= Total Co	ver		
50% of total cover: 47.5					
Woody Vine Stratum (Plot size: <u>30 ft r</u>)	20 /0 01				
1					
2					
3					
4					
5				Hydrophytic	
	:	= Total Co	ver	Vegetation Present? Yes Ves No	
50% of total cover:	20% of	total cover	:		
Remarks: (If observed, list morphological adaptations belo	w).			·	

Profile Desc	cription: (Describe	to the dep	th needed to docum	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			<pre>K Feature</pre>				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 4	5YR 4/3	100					Silt	
4 - 16	7.5YR 6/1	60	7.5YR 4/6	40	С	М	Sand	
_								
-								
-								
					·			
- ¹ Turney 0-0			- Deduced Metrix MC	Maaka			21	
			Reduced Matrix, MS LRRs, unless other			ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histosol Histic El Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Deplete Coast P Sandy M Sandy C Sandy F Strippec Dark Su	(A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P ucky Mineral (A7) (LI resence (A8) (LRR U uck (A9) (LRR P, T) d Below Dark Surface ark Surface (A12) rairie Redox (A16) (I Mucky Mineral (S1) (I Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S	^{9,} T, U) RR P, T, U) ^{J)} ^{MLRA 150/ LRR O, S) 5, T, U)}	 Polyvalue Bel Thin Dark Sun Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (L) Depleted Och Iron-Mangane A) Umbric Surfat Delta Ochric of Reduced Veri Piedmont Flo 	low Surfa rface (S9 / Mineral d Matrix (F3) Surface (F k Surface (F k Surface (F11) ese Mass ce (F13) (F17) (MI tic (F18) odplain S	(MLRA 15 (MLRA 15) (MLRA 15) (MLRA 15) (MLRA 15) (MLRA 15) (MLRA 15) (MLRA 15) (MLRA 15)	T, U) 2 O) LRR O, P, , U) 00A, 150B) (MLRA 14	 J) 1 cm M 2 cm M Reduce Piedmo Anoma (MLR Red Pa Very Sł Other (l T) ³ Indica wetł unle	luck (A9) (LRR O) luck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T) lous Bright Loamy Soils (F20) (A 153B) arent Material (TF2) hallow Dark Surface (TF12) Explain in Remarks) ators of hydrophytic vegetation and and hydrology must be present, ess disturbed or problematic.
Type:	Layer (if observed)	1						
	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:							inguite cont	

Project/Site: Port of Little Rock	Sampling Date: 2	023-03-01						
Applicant/Owner: Port of Little Rock				Sampling Point: T				
					<u>-</u>			
Landform (hillslope, terrace, etc.): Artificial L			ave, convex, none): Convex Slope (%): 0-40					
Subregion (LRR or MLRA): P 133B						. ,		
Soil Map Unit Name: LEV - Levee			Long	_NWI classifica				
Are climatic / hydrologic conditions on the site	tunical for this time of		lo (lf.					
Are Vegetation <u> </u>								
		-				NO		
Are Vegetation, Soil, or Hydrol				-	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach	site map showing	ng sampling poi	nt location	s, transects	, important fea	itures, etc.		
Hydrophytic Vegetation Present? Ye	s No							
Hydric Soil Present? Ye	s No 🖌	- Is the Sam	•	Vee	No 🖌			
	s No_	within a W	etiano ?	res				
Remarks:								
Levee.								
HYDROLOGY			0		1 (
Wetland Hydrology Indicators:	ad: aback all that apply	<u>م</u>	50 Г	7	tors (minimum of two Crocks (R6)	<u>vo requirea)</u>		
Primary Indicators (minimum of one is requir				Surface Soil				
Surface Water (A1) High Water Table (A2)	Aquatic Fauna (E Marl Deposits (B		F	Drainage Pa	getated Concave Su	ласе (ве)		
Saturation (A3)	Hydrogen Sulfide			-				
Water Marks (B1)		pheres along Living F	Proofs (C3) \Box	bots (C3) ☐ Moss Trim Lines (B16)				
Sediment Deposits (B2)	Presence of Red		(0013 (03) <u> </u>	Crayfish Bur				
$\square \text{ Drift Deposits (B2)}$		uction in Tilled Soils (-	sible on Aerial Ima	(C9)		
Algal Mat or Crust (B4)	Thin Muck Surfac			-	Position (D2)	Jery (C3)		
$\square \text{ Iron Deposits (B5)}$	Other (Explain in	()		Shallow Aqu	. ,			
Inundation Visible on Aerial Imagery (B7		(containe)		FAC-Neutral				
Water-Stained Leaves (B9)	/		Ē	=	noss (D8) (LRR T, I	J)		
Field Observations:								
Surface Water Present? Yes N	lo 🗹 Depth (inche	es):						
Water Table Present? Yes N	lo 🗹 Depth (inche	es):						
	lo 🗹 Depth (inche	es):	Wetland Hyd	Irology Preser	nt? Yes	No 🖌		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	nitoring well, aerial ph	otos, previous inspec	tions), if availa	ble:				
	internig tren, dendi pri	, p	,,					
Remarks:								

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
· · · · · · · · · · · · · · · · · · ·		= Total Cov		OBL species $0 x 1 = 0$
50% of total cover:				FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: _30 ft r)	20 % 01		·	FAC species <u>10</u> x 3 = <u>30</u>
				FACU species 70 x 4 = 280
1				UPL species 0 x 5 = 0
2				Column Totals: 80 (A) 310 (B)
3				
4				Prevalence Index = $B/A = 3.88$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:				
Herb Stratum (Plot size: 10 ft r)				
1. Galium aparine	30	~	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Cynodon dactylon	20		FACU	Definitions of Four Vegetation Strata:
3. Cardamine hirsuta	10		FACU	Demittoris of Four Vegetation Strata.
4. Geranium carolinianum	10		1700	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Rumex crispus	10		FAC	more in diameter at breast height (DBH), regardless of height.
	5			noight.
6. <u>Stellaria media</u>	5		FACU	Sapling/Shrub – Woody plants, excluding vines, less
7. Vicia caroliniana			FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8. unidentified greaa	5			Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	95% :	= Total Cov	ver	
50% of total cover: 47.5	20% of	total cover	19.0	
Woody Vine Stratum (Plot size: 30 ft r)				
1,				
2				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes No V
50% of total cover:	20% of	total cover	:	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	cription: (Describe	e to the dept	n needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
-						. <u> </u>		
-								
	-							
-								
-								
17				0 Maalaa			21	DL Deve Linice M Metric
	oncentration, D=De Indicators: (Appli					ains.		PL=Pore Lining, M=Matrix.
-		icable to all L						•
Histosol	. ,		Polyvalue Be					Muck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					Muck (A10) (LRR S)
	istic (A3)		Loamy Muck	-		R O)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma				L Anoma	alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR	· · ·	Redox Dark	Surface (I	F6)		•	RA 153B)
	ucky Mineral (A7) (I		Depleted Da	rk Surface	e (F7)			arent Material (TF2)
Muck Pr	resence (A8) (LRR	U)	Redox Depre	•	8)		L Very S	Shallow Dark Surface (TF12)
🔲 1 cm Μι	uck (A9) (LRR P, T))	Marl (F10) (L	.RR U)			Other	(Explain in Remarks)
Deplete	d Below Dark Surfa	ice (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) ((LRR O, P, 1	T) ³ Indic	cators of hydrophytic vegetation and
Coast P	rairie Redox (A16)	(MLRA 150A)) 🔲 Umbric Surfa	ace (F13)	(LRR P, T	', U)	wet	tland hydrology must be present,
Sandy N	/lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (MI	LRA 151)		unl	ess disturbed or problematic.
Sandy C	Gleyed Matrix (S4)		Reduced Ve	rtic (F18)	(MLRA 15	50A, 150B)		
Sandy F	Redox (S5)		Piedmont Flo	podplain S	Soils (F19)	(MLRA 149	ÐA)	
	I Matrix (S6)						A 149A, 153C	, 153D)
	rface (S7) (LRR P,	S, T, U)		0	,			· •
Restrictive	Layer (if observed):						
Type:								
	ches):						Hydric Soil	Present? Yes No 🖌
	cnes).						Tryune Son	
Remarks:								
No pit; r	nan made le	evee; soil	s assumed	non-h	ydric.			
		-			-			

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-03-01
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T2-12
	Section, Township, Range: S27 T1N R11W
	Local relief (concave, convex, none): <u>None</u> Slope (%): <u>2</u>
	34.67854 Dog:92.1706 Datum: WGS 84
Soil Map Unit Name: LEV - Levee	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation, Soil, or Hydrology signifi Are Vegetation, Soil, or Hydrology natura	· · · · · · · · · · · · · · · · · · ·
SUMMARY OF FINDINGS – Attach site map sho	wing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes _ ✓ _ No Hydric Soil Present? Yes _ ✓ _ No Wetland Hydrology Present? Yes _ ✓ _ No Remarks: Yes _ ✓ _ No	within a Watland? Ves V No
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	
Surface Water (A1)	
	s (B15) (LRR U) Drainage Patterns (B10)
Saturation (A3)	lfide Odor (C1) Moss Trim Lines (B16)
	zospheres along Living Roots (C3)
	Reduced Iron (C4)
	Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
	n in Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Vater-Stained Leaves (B9)	✓ FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes 🖌 No Depth (ii	nches): 12
Water Table Present? Yes No _ Cepth (ii	nches):
Saturation Present? Yes No 🖌 Depth (i	nches): Wetland Hydrology Present? Yes 🖌 No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial	photos previous inspections) if available:
Remarks:	

			nt Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	<u>% Cover</u>			Number of Dominant Species
1. Platanus occidentalis	20		FACW FACW	That Are OBL, FACW, or FAC: 3 (A)
2. Celtis laevigata	10	V		Total Number of Dominant
3. Populus deltoides	5		FAC	Species Across All Strata: <u>3</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
8				$\begin{array}{c c c c c c c c c c c c c c c c c c c $
17.5	35% :			FACW species 30 x 2 = 60
50% of total cover: <u>17.5</u>	20% of	total cove	er: <u>7.0</u>	FAC species 5 x 3 = 15
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 0 $x = 0$
1	·			$\frac{1}{\text{UPL species}} = \frac{1}{2} + \frac{1}{2} = \frac{1}{2}$
2	·			Column Totals: 35 (A) 75 (B)
3				
4				Prevalence Index = $B/A = 2.14$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	·			✓ 2 - Dominance Test is >50%
8	·			\checkmark 3 - Prevalence Index is $\leq 3.0^1$
	:	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	er:	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
11	·			Woody vine – All woody vines greater than 3.28 ft in height.
12.	0	~	FACW	noight.
	0% :	= Total Co		
50% of total cover: 0		total cove		
Woody Vine Stratum (Plot size: <u>30 ft r</u>)	2070 01			
	0	~		
1				
2				
3				
4	0			
5				Hydrophytic
		= Total Co		Vegetation Present? Yes <u>Ves</u> No
	20% of	total cove	er: <u>0</u>	
Remarks: (If observed, list morphological adaptations belo	ow).			
1				

Profile Desc	cription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix			x Feature	s	<u> </u>				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
-										
-										
						<u> </u>				
-						<u> </u>				
-										
-										
							·			
-										
-										
¹ Type: C=C	oncentration, D=De	oletion RM=F	educed Matrix MS	S=Masker	Sand Gr	ains	² Location	PI =Pore I i	ning, M=Matrix	(
	Indicators: (Applie								natic Hydric S	
Histosol			Polyvalue Be			DDCTIN		luck (A9) (L	-	
	pipedon (A2)		Thin Dark Su					luck (A9) (L luck (A10) (
	istic (A3)		Loamy Mucky							ILRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		. , .	(0)			in Soils (F19)	
	d Layers (A5)		Depleted Mat		12)				Loamy Soils (F	
	Bodies (A6) (LRR F	от IN	Redox Dark S		6)			RA 153B)		20)
	ucky Mineral (A7) (L		Depleted Dark	```	,			arent Materia	al (TE2)	
	resence (A8) (LRR I		Redox Depre						Surface (TF12	2)
	uck (A9) (LRR P, T)	,	Marl (F10) (L	•	0)			Explain in R	•	-)
	d Below Dark Surfac	ce (A11)	Depleted Och		(MI RA 1	51)			cinarks)	
	ark Surface (A12)		Iron-Mangane				³ Indic	ators of hvd	rophytic veget	ation and
	rairie Redox (A16) (MLRA 150A)							gy must be pr	
	/lucky Mineral (S1)		Delta Ochric			, -,		-	d or problemat	
	Gleyed Matrix (S4)	-,-,	Reduced Ver			0A. 150B)				
	Redox (S5)		Piedmont Flo				(A)			
	Matrix (S6)		Anomalous B					153D)		
	rface (S7) (LRR P,	S, T, U)	_	0	,	/ (,		
	Layer (if observed)	-								
Type:										
Depth (in	ches):						Hydric Soil	Procont?	Vos V	No
• •	chcs).							i resent :	103	<u> </u>
Remarks:										
No pit d	ug due to in	undation	; hydric soil	s assu	imed.					
-										

Project/Site: Port of Little Rock			_ City/County: Pula	ski County		Sampling Date: 2023-02-20
Applicant/Owner: Port of Little R						Sampling Point: T2-a
Investigator(s): Jimmy Rogers			_ Section, Township	, Range: S27	7 T1N R11W	
Landform (hillslope, terrace, etc.): _						Slope (%): 0
Subregion (LRR or MLRA): P 133						Datum: WGS 84
Soil Map Unit Name: Ko - Keo si						tion:
Are climatic / hydrologic conditions						emarks.)
Are Vegetation, Soil		-				resent? YesNo
Are Vegetation, Soil					olain any answei	
SUMMARY OF FINDINGS -					-	
Hydrophytic Vegetation Present?	Yes	No 🖌				
Hydric Soil Present?	Yes	No 🖌	- Is the Sam		N	No
Wetland Hydrology Present?		No 🖌	within a W	etiand?	res	NO
Agricultural field.						
HYDROLOGY						
Wetland Hydrology Indicators:				<u>S</u>	_	tors (minimum of two required)
Primary Indicators (minimum of or				<u>F</u>	Surface Soil	
Surface Water (A1)					Sparsely Veg Drainage Pat	etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1)					Moss Trim Li	
Water Marks (B1)	-	oheres along Living F	Roots (C3)	-	Water Table (C2)	
Sediment Deposits (B2)		esence of Redu			Crayfish Burr	
Drift Deposits (B3)		cent Iron Redu	uction in Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		in Muck Surfac	()	Ļ	Geomorphic	
Iron Deposits (B5)		her (Explain in	Remarks)	Ļ	Shallow Aqui	· ,
Inundation Visible on Aerial Ir Water-Stained Leaves (B9)	nagery (B7)			L	FAC-Neutral	lest (D5) loss (D8) (LRR T, U)
Field Observations:				L		
	es No 🖌	Depth (inche	es):			
	es No 🔽		-			
	es No 🔽	_ Depth (inche	es):	Wetland Hy	drology Presen	t? Yes No 🖌
(includes capillary fringe) Describe Recorded Data (stream		well aerial nho	ntos previous inspec	tions) if availa	ihle:	
	guuge, monitoring		noo, previous inspec	liono), n avanc		
Remarks:						

Sampling	Point:	T2-a
Camping		

20.41			Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30 ft r</u> 1)	% Cover			Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A	۸)	
2 3					Total Number of Dominant Species Across All Strata: 0 (B	3)	
4.						.,	
5					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>NaN</u> (A	VB)	
6					Prevalence Index worksheet:		
7					Total % Cover of:Multiply by:		
8			Total Ca		OBL species <u>0</u> x 1 = <u>0</u>		
50%	of total cover:				FACW species <u>0</u> x 2 = <u>0</u>		
		20% of	total cover		FAC species <u>5</u> x 3 = <u>15</u>		
Sapling/Shrub Stratum (Plot size: 30					FACU species 10 x 4 = 40		
1					UPL species 0 x 5 = 0		
2					Column Totals: 15 (A) 55 (A)	(B)	
3							
4					Prevalence Index = $B/A = 3.67$		
5					Hydrophytic Vegetation Indicators:		
6					1 - Rapid Test for Hydrophytic Vegetation		
7					2 - Dominance Test is >50%		
8					$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$		
		=	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)		
50% c	of total cover:	20% of	total cover	: <u> </u>	<u> </u>		
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology mus	st	
1 Andropogon virginicus	·	30	~		be present, unless disturbed or problematic.		
2. Allium vineale		25	~		Definitions of Four Vegetation Strata:		
3. Curly dock		10					
4. Paspalum sp		10			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless		
5 Poa annua		10		FACU	height.	. 01	
6 Elymus canadensis		5		FAC	One line (Ohmutha Misside elevate and elevate discussions de		
7. Geranium sp.		5			Sapling/Shrub – Woody plants, excluding vines, les than 3 in. DBH and greater than 3.28 ft (1 m) tall.	35	
8. Late goldenrod		5					
9. Hairy vetch		2			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	:SS	
10					Woody vine All woody vines greater than 3.28 ft is	n	
11.					Woody vine – All woody vines greater than 3.28 ft in height.		
12.							
		102% =	= Total Co	ver			
50% c	of total cover: 51.0	20% of					
Woody Vine Stratum (Plot size: 30 ft							
1							
2							
3							
4							
5					Hydrophytic		
500/		= Total Cover 20% of total cover:			Vegetation Present? Yes No V		
			total cover	:			
Remarks: (If observed, list morphologi	ical adaptations belo	w).					

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	n the absence	of indicators.)	
Depth Matrix Redox Features									
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	S
0 - 18	5YR 5/4	100					Loam		
-									
						·			
				·					
-									
-									
				·					
-							<u> </u>		
	oncentration, D=Dep					ains.		PL=Pore Lining, M=M	
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless other	wise not	ed.)		Indicators	for Problematic Hydr	ic Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, I	U) 1 cm M	/luck (A9) (LRR O)	
Histic Ep	bipedon (A2)		Thin Dark Su					luck (A10) (LRR S)	
Black Hi	stic (A3)		Loamy Mucky	y Mineral	(F1) (LRF	R O)	Reduce	ed Vertic (F18) (outsid	le MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)		Piedmo	ont Floodplain Soils (F	19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Mat	trix (F3)			L Anoma	alous Bright Loamy Soi	ls (F20)
Organic	Bodies (A6) (LRR P	P, T, U)	Redox Dark S	```	,		· ·	RA 153B)	
	icky Mineral (A7) (L l		Depleted Dar		. ,			arent Material (TF2)	
	esence (A8) (LRR L	J)	Redox Depre	•	8)			hallow Dark Surface (1	⁻ F12)
	ick (A9) (LRR P, T)		Marl (F10) (L				U Other ((Explain in Remarks)	
	Below Dark Surfac	e (A11)	Depleted Och						
	ark Surface (A12)		Iron-Mangane				•	ators of hydrophytic ve	-
	rairie Redox (A16) (I					, U)		land hydrology must be	•
	lucky Mineral (S1) (LRR 0, 5)				04 4500		ess disturbed or proble	matic.
	Bleyed Matrix (S4)		Reduced Ver						
	edox (S5) Matrix (S6)						49A) RA 149A, 153C,	152D)	
	rface (S7) (LRR P, \$	ат II)		ingrit Luai	Thy Solis ((A 149A, 133C,	, 1550)	
	_ayer (if observed)	-							
Type:		•							
								Decourt? Vee	No 🖌
	ches):						Hydric Soil	Present? Yes	NO
Remarks:									
1									
1									
1									

City/County: Pula	ski County	Sampling Date: 2023-02-21		
	State: Arkansas Sampling Point: T3-01			
Section. Township	Range: S33 T1N R11W			
Local relief (conca	ve. convex. none); None	Slope (%); 0		
		·		
No ✓ Is the Sam ✓ No within a W	•	No		
	Secondary Indica	tors (minimum of two required)		
Sediment Deposits (B2) Presence of Reduced Iron (C4) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Vater-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Water Table Present? Yes No V Depth (inches):				
Depth (inches):	Wetland Hydrology Presen	t? Yes No		
ring well, aerial photos, previous inspec	tions), if available:			
		Section, Township, Range: S33 T1N R11W		
	Absolute	Dominant	Indicator	Dominance Test worksheet:
--	----------	-----------------------	------------	---
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				
				Total Number of Dominant Species Across All Strata: 0 (B)
3				Species Across All Strata: 0 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>NaN</u> (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species $0 x 1 = 0$
50% of total cover: 0				FACW species 0 x 2 = 0
	20 % 01		. 🗕 🔤	FAC species <u>10</u> x 3 = <u>30</u>
Sapling/Shrub Stratum (Plot size: 30 x 30)				FACU species 6 x 4 = 24
1				UPL species 0 $x 5 = 0$
2				
3				Column Totals: <u>16</u> (A) <u>54</u> (B)
4				Prevalence Index = $B/A = 3.38$
5				
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^1$
	0%	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 0	20% of	total cover	: 0	
Herb Stratum (Plot size: 15 x 15)				¹ Indianters of hudrin call and water of hudrals are recent
1. Lolium perenne	20	~		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Cynodon dactylon	20	<u> </u>		
				Definitions of Four Vegetation Strata:
3. Rumex crispus	15	 ✓ 		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Glycine max	15	 ✓ 		more in diameter at breast height (DBH), regardless of
_{5.} Ranunculus sp.	10			height.
_{6.} Andropogon virginicus	10		FAC	Sapling/Shrub – Woody plants, excluding vines, less
7 Allium vineale	5		FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8. Vicia americana	1		FACU	
				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	96%	= Total Cov	/er	
50% of total cover: 48	20% of	total cover	19.2	
Woody Vine Stratum (Plot size: 30 x 30)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	/er	Vegetation
50% of total cover:				Present? Yes No 🖌
			·	
Remarks: (If observed, list morphological adaptations be	ow).			

Profile Desc	ription: (Describe	to the dep	oth needed to docum	nent the	indicator	or confir	m the absence	of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 3	5YR 3/3						Clay	
3 - 16	5YR 5/2	80	5YR 5/4	20	С	М	Clay	
							·	
-								
-								
_								
		lation PM	=Reduced Matrix, MS	S-Maska	d Sand Gr	aine	² Location:	PL=Pore Lining, M=Matrix.
			LRRs, unless other			aii 15.		for Problematic Hydric Soils ³ :
Histosol Histic Er Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleter Coast P Sandy M Sandy G Sandy F Stripped Dark Su	(A1) bipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR F ucky Mineral (A7) (L resence (A8) (LRR P, T) d Below Dark Surfac ark Surface (A12) rairie Redox (A16) (Mucky Mineral (S1) (Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S	P, T, U) RR P, T, U J) MLRA 150 LRR O, S) S, T, U)	 Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Mar Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Och Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo 	elow Surfa riface (SS y Mineral ed Matrix trix (F3) Surface (rk Surface essions (F .RR U) nric (F11) ese Mass ice (F13) (F17) (M tic (F18) podplain S	ace (S8) (L (FR S, (F1) (LRR S, (F1) (LRR (F2) F6) e (F7) F8) (MLRA 1 (LRR P, T LRA 151) (MLRA 15 Goils (F19)	T, U) 2 O) LRR O, P , U) 0A, 150B (MLRA 1	U) 1 cm M 2 cm M Reduce Piedmo Anoma (MLR Red Pa Very Sl Other (2, T) ³ Indica weth unle	Auck (A9) (LRR O) Auck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T) alous Bright Loamy Soils (F20) RA 153B) arent Material (TF2) hallow Dark Surface (TF12) Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present, ess disturbed or problematic.
	Layer (if observed)	:						
Туре:								
	ches):						Hydric Soil	Present? Yes V No
Remarks:								

Project/Site: Port of Little Rock	City/County: Pulaski Co	ounty	Sampling Date: 2023-02-21
Applicant/Owner: Port of Little Rock			Sampling Point: T3-02
Investigator(s): Jimmy Rogers	Section, Township, Range	S33 T1N R11W	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, con	vex none). Concave	Slope (%): 1
Subregion (LRR or MLRA): P 133B Lat: 34.67			Datum: WGS 84
Soil Map Unit Name: Me - Moreland silty clay	LON	NWI classifica	
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 pr	oblematic? (If need	ed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point loc	ations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes _ ✓ No Hydric Soil Present? Yes _ ✓ No Wetland Hydrology Present? Yes _ ✓ No Remarks: Yes _ ✓ No	Is the Sampled A within a Wetland?		No
HYDROLOGY			
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)	3)	Surface Soil	getated Concave Surface (B8)
High Water Table (A2)	,	tterns (B10)	
Saturation (A3)		Moss Trim Li	
	neres along Living Roots (C		Water Table (C2)
Sediment Deposits (B2)	ced Iron (C4)	Crayfish Bur	rows (C8)
Drift Deposits (B3)	tion in Tilled Soils (C6)	Saturation Vi	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Geomorphic	Position (D2)
Iron Deposits (B5)	Remarks)	Shallow Aqu	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:). C		
Surface Water Present? Yes			
Saturation Present? Yes No Present? Yes Depth (inches		nd Hydrology Preser	nt? Yes 🖌 No
(includes capillary fringe)	,		
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), i	f available:	
Remarks:			

20 - 20		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Dominant Species
1. Nyssa aquatica	40	<u> </u>	OBL	That Are OBL, FACW, or FAC: (A)
2. Ulmus americana	10	~	FAC	Total Number of Deminant
3				Total Number of Dominant Species Across All Strata: <u>4</u> (B)
4				
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species <u>53</u> x 1 = <u>53</u>
50% of total cover: 2				FACW species 0 $x 2 = 0$
				FAC species 10 x 3 = 30
Sapling/Shrub Stratum (Plot size: 30 x 30	<i>′</i>	,	0.01	FACU species 0 x 4 = 0
1. Nyssa aquatica	10	<u> </u>	OBL	UPL species 0 $x = 0$
2				
3				Column Totals: <u>63</u> (A) <u>83</u> (B)
4				
				Prevalence Index = $B/A = 1.32$
5				Hydrophytic Vegetation Indicators:
6			·	1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$
	400/	= Total Cov	/er	
50% of total cover: 5				Problematic Hydrophytic Vegetation ¹ (Explain)
	20% 01	IOIAI COVEI		
Herb Stratum (Plot size: <u>30 x 30</u>)			·	¹ Indicators of hydric soil and wetland hydrology must
1. Juncus effusus	3	<u> </u>	OBL	be present, unless disturbed or problematic.
2. Symphyotrichum sp.	1	~		Definitions of Four Vegetation Strata:
3. Isoetes lacustris	1	~		
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				noight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb All berbasseus (non weedu) plante, regardlage
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	5% :	= Total Cov	/er	
50% of total cover: 2	2.5 20% of	total cover	: 1	
Woody Vine Stratum (Plot size: 30 x 30)				
1				
2				
3				
4				
5				the decision of a
· · · · ·		= Total Cov		Hydrophytic Vegetation
				Present? Yes V No
50% of total cover:	20% of	total cover	:	
Remarks: (If observed, list morphological adaptations	below).			
1				

Profile Desc	cription: (Describe	to the depth	needed to docum	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
-								
						· ·		
						<u> </u>		
-								
-								
_								
						· ·		
-								
	oncentration, D=De					ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless other	wise not	ed.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be					luck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					luck (A10) (LRR S)
	istic (A3)		Loamy Mucky			R O)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat					llous Bright Loamy Soils (F20)
-	Bodies (A6) (LRR F		Redox Dark S	`	,			RA 153B)
	ucky Mineral (A7) (L		Depleted Dar					arent Material (TF2)
	esence (A8) (LRR I	(ר			8)			hallow Dark Surface (TF12)
	uck (A9) (LRR P, T)	0 (111)	Marl (F10) (L			E4)	Uther (Explain in Remarks)
	d Below Dark Surfac ark Surface (A12)	Je (ATT)	Depleted Oct				r) ³ India	ators of hydrophytic vegetation and
	rairie Redox (A16) (MI RA 150A)						and hydrology must be present,
	/ucky Mineral (S1) (Delta Ochric			, 0)		ess disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver			0A 150B)	unic	is a bialarbed of problematic.
	Redox (S5)		Piedmont Flo				Α)	
	I Matrix (S6)						A 149A, 153C	. 153D)
	rface (S7) (LRR P,	S, T, U)		0	J (- / (- ,	
	Layer (if observed)	-						
Type:								
	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:								
			I					
NO PIT O	ug due to ini	undation	; nyaric soli	s assi	imea.			

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02					
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T3-03					
vestigator(s): Jimmy Rogers Section, Township, Range: S33 T1N R11W						
Landform (hillslope, terrace, etc.); Flat	at Local relief (concave, convex, none): Concave Slope (%): 2					
			4 Datum: WGS 84			
Soil Map Unit Name: No - Norwood silty cl			lassification: none			
Are climatic / hydrologic conditions on the site ty						
Are Vegetation, Soil, or Hydrolo						
Are Vegetation, Soil, or Hydrolo	·· · · ·		answers in Remarks.)			
SUMMARY OF FINDINGS – Attach						
Hydric Soil Present? Yes	No	the Sampled Area ithin a Wetland? Ye	es No			
Agricultural field.						
Wetland Hydrology Indicators:		Secondar	ry Indicators (minimum of two required)			
	Aquatic Fauna (B13) Marl Deposits (B15) (LRR U Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alon Presence of Reduced Iron (Recent Iron Reduction in Til Thin Muck Surface (C7) Other (Explain in Remarks)) Spars Drain Moss g Living Roots (C3) Dry-S C4) Crayl led Soils (C6) Satur Geon Shall FAC-	ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2) ow Aquitard (D3) -Neutral Test (D5) agnum moss (D8) (LRR T, U)			
	Depth (inches): <u>10</u>					
Saturation Present? Yes <u>Ves</u> No (includes capillary fringe)	Depth (inches): <u>6</u>	Wetland Hydrology	Present? Yes <u>V</u> No			
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previo	us inspections), if available:				

· · · ·	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>1</u> (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8			· · · · · · · · · · · · · · · · · · ·	Total % Cover of: Multiply by:
	:	= Total Co	ver	OBL species 5 $x_1 = 5$
50% of total cover:				FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 x 30)	20 /0 01			FAC species 27 x 3 = 81
				FACU species <u>3</u> x 4 = <u>12</u>
1				UPL species $0 \times 5 = 0$
2				Column Totals: <u>35</u> (A) <u>98</u> (B)
3				
4				Prevalence Index = $B/A = 2.8$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	·			\square 3 - Prevalence Index is ≤3.0 ¹
	:	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	f total cove	r:	
Herb Stratum (Plot size: 15 x 15)				¹ Indicators of hydric soil and wetland hydrology must
_{1.} Carex sp.	25	~		be present, unless disturbed or problematic.
2. Rumex crispus	25	~	FAC	Definitions of Four Vegetation Strata:
_{3.} Ranunculus sp.	25	~		Tree Weedy plants evaluating vince 2 in (7.6 cm) or
_{4.} Juncus effusus	5		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Trifolium repens	3		FACU	height.
6. Juncus tenuis	2		FAC	Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	·			
10	·			Woody vine – All woody vines greater than 3.28 ft in
11				height.
12		= Total Co	<u> </u>	
50% of total cover: <u>42.5</u>	20% of	total cove	r: <u>17</u>	
Woody Vine Stratum (Plot size: <u>30 x 30</u>)				
1				
2	·			
3				
4		. <u></u>		
5				Hydrophytic
	:	= Total Co	ver	Vegetation
50% of total cover:			r:	Present? Yes 🖌 No
Remarks: (If observed, list morphological adaptations belo				1
				6 1 1 1 1 1 1 1 1 1
Two dominant herbs not identified to	o specie	es due	to time	or year; nydropnytic vegetation

assumed.

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confir	m the absence o	of indicators.)
Depth Matrix Redox Features						<u>.</u>		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0 - 18	10YR 5/1	85	5YR 4/4	15	С	М	Clay	
-								
_								
						·		
-						·		
-								
-								
¹ Type: C=C	oncentration, D=De	pletion, RM	Reduced Matrix, M	S=Maske	d Sand G	ains.	² Location: I	PL=Pore Lining, M=Matrix.
			LRRs, unless othe					or Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfa	ace (S8) (I	_RR S, T,	U) 1 cm Mi	uck (A9) (LRR O)
Histic Ep	pipedon (A2)		Thin Dark Su	urface (SS) (LRR S,	T, U)	2 cm Mi	uck (A10) (LRR S)
	istic (A3)		Loamy Muck	-		R O)		d Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			nt Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma	• •				ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark		,			A 153B) rent Material (TF2)
	ucky Mineral (A7) (L resence (A8) (LRR I		Depleted Da					nallow Dark Surface (TF12)
	uck (A9) (LRR P, T)	,	Marl (F10) (L	`	0)			Explain in Remarks)
	d Below Dark Surfac	ce (A11)	Depleted Oc) (MLRA 1	51)		
Thick Da	ark Surface (A12)		Iron-Mangan				P, T) ³ Indica	tors of hydrophytic vegetation and
	rairie Redox (A16) (A) 🔲 Umbric Surfa	ace (F13)	(LRR P, 1	r, U)		and hydrology must be present,
	/lucky Mineral (S1) (LRR O, S)	Delta Ochric					ss disturbed or problematic.
	Bleyed Matrix (S4)		Reduced Ve					
	Redox (S5)		Piedmont Flo					4520)
	l Matrix (S6) rface (S7) (LRR P, 3	ст II)		Bright Loa	imy Solis	(F20) (IVIL I	RA 149A, 153C,	153D)
	Layer (if observed)	-						
Type:		•						
	ches):						Hydric Soil F	Present? Yes 🖌 No
Remarks:	enco).							
Nemarks.								

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-0						
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T3-04						
Landform (hillslope, terrace, etc.): Flat	hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%):						
Subregion (LRR or MLRA): P 133B Lat: 34.67	7443 L	ong: -92.18705	Datum: WGS 84				
Soil Map Unit Name: No - Norwood silty clay loam		NWI classificat					
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No						
Are Vegetation, Soil, or Hydrology significantly							
Are Vegetation, Soil, or Hydrology naturally pro		eeded, explain any answer					
SUMMARY OF FINDINGS – Attach site map showing							
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓ Remarks: Yes Yes Yes Yes	Is the Samplec within a Wetlan		No				
Agricultural field.							
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B1 High Water Table (A2) Marl Deposits (B1) Saturation (A3) Hydrogen Sulfide (C) Water Marks (B1) Oxidized Rhizosph Sediment Deposits (B2) Presence of Reduct	(3) 5) (LRR U) Odor (C1) neres along Living Roots ced Iron (C4) ction in Tilled Soils (C6) e (C7) Remarks)	Surface Soil C Sparsely Veg Drainage Patt Moss Trim Lir S (C3) Dry-Season V Crayfish Burro Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	Cracks (B6) etated Concave Surface (B8) eerns (B10) hes (B16) Vater Table (C2) bws (C8) sible on Aerial Imagery (C9) Position (D2) ard (D3)				
Water Table Present? Yes No _ Depth (inches Saturation Present? Yes No _ Depth (inches (includes capillary fringe) Yes No _ Yes No _	s): We	etland Hydrology Present	? Yes No				
Describe Recorded Data (stream gauge, monitoring well, aerial photo Remarks:	os, previous inspections	s), if available:					

20 × 20		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 x 30</u>) 1		<u>Species?</u>		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>1</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				$\begin{array}{c} \hline \hline \\ $
		= Total Co		FACW species $0 \times 1 = 0$
50% of total cover:	20% of	total cover	:	FAC species 45 $x_3 = 135$
Sapling/Shrub Stratum (Plot size: 30 x 30)				FACU species 13 $x = 52$
1				UPL species $0 \times 5 = 0$
2				Column Totals: 58 (A) 187 (B)
3				
4				Prevalence Index = $B/A = 3.22$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				
8				\Box 3 - Prevalence Index is $\leq 3.0^1$
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 15 x 15)	20		540	¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	30	<u> </u>	FAC	be present, unless disturbed or problematic.
2. Ranunculus sp.	30	~		Definitions of Four Vegetation Strata:
3. Rumex crispus	15		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Trifolium repens	10		FACU	more in diameter at breast height (DBH), regardless of
5. Carex sp.	<u>10</u> 3		FAOL	height.
6. Solanum carolinense 7			FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				
10				Woody vine – All woody vines greater than 3.28 ft in
11 12.				height.
12.	98%	= Total Co		
50% of total cover: 49				
Woody Vine Stratum (Plot size: <u>30 x 30</u>)	2070.01			
4				
2				
3				
4				
5				Lludron butie
		= Total Co		Hydrophytic Vegetation
50% of total cover:				Present? Yes 🖌 No
Remarks: (If observed, list morphological adaptations bel				
	,			

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the i	ndicator	or confirn	n the absence o	f indicato	ors.)	
Depth	Matrix		Redo	x Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 18	2.5YR 4/2	100					Silty Clay			
				· ·						
-				<u> </u>						
-										
_										
				· ·						
-										
-										
							·			
-				· ·						
	oncentration, D=De					ains.			ining, M=Mati	
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless other	rwise not	ed.)		Indicators for	or Proble	matic Hydric	Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, I	U) 1 cm Mu	ick (A9) (L	.RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su					ick (A10)	(LRR S)	
Black Hi	stic (A3)		Loamy Muck							MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	-) (LRR P, S, T)
	Layers (A5)		Depleted Mat		,				Loamy Soils	
	Bodies (A6) (LRR F	P. T. U)	Redox Dark		-6)			A 153B)		· · ·
	icky Mineral (A7) (L		Depleted Dar		,		•	ent Materi	al (TF2)	
	esence (A8) (LRR I		Redox Depre						Surface (TF	12)
	ick (A9) (LRR P, T)	5)	Marl (F10) (L	•	0)			xplain in F	•	12)
	d Below Dark Surfac	CO (A11)				51)			(emarks)	
	ark Surface (A12)						T) ³ Indicat	tore of hyp	Irophytic vege	atation and
	rairie Redox (A16) (MI DA 150A						•	ogy must be p	
	lucky Mineral (S1) (, 0)		•	•••	
		LKK 0, 5)						s disturbe	d or problem	alic.
	Bleyed Matrix (S4)		Reduced Ver							
	Redox (S5)		Piedmont Flo							
	Matrix (S6)		Anomalous E	Bright Loai	my Soils (F20) (MLR	RA 149A, 153C, 1	153D)		
	rface (S7) (LRR P,	-								
Restrictive I	Layer (if observed)):								
Туре:										
Depth (in	ches):						Hydric Soil P	resent?	Yes	No 🖌
Remarks:										
1										

Project/Site: Port of Little Rock City/	County: Pulaski County Sampling Date: 2023-02-28					
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T3-05					
Investigator(s): Jimmy Rogers Section, Township, Range: S34 T1N R11W						
Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%)						
Subregion (LRR or MLRA): P 133B Lat: 34.67457	Long: -92.186 Datum: WGS 84					
Soil Map Unit Name: No - Norwood silty clay loam	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of year?						
Are Vegetation, Soil, or Hydrology significantly distu						
Are Vegetation, Soil, or Hydrology naturally problem						
	npling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes Yes	Is the Sampled Area within a Wetland? Yes No					
Planted cypress.						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
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 (Water Marks (B1) Oxidized Rhizospheres Sediment Deposits (B2) Presence of Reduced In Drift Deposits (B3) Recent Iron Reduction in Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remark Water-Stained Leaves (B9) Field Observations:	C1) Image: Moss Trim Lines (B16) along Living Roots (C3) Image: Dry-Season Water Table (C2) on (C4) Image: Crayfish Burrows (C8) in Tilled Soils (C6) Image: Saturation Visible on Aerial Imagery (C9) Image: 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, pro-	Wetland Hydrology Present? Yes No					
Remarks:						

		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1. Taxodium distichum		Species?	<u>Status</u> OBL	Number of Dominant Species
	70	<u> </u>		That Are OBL, FACW, or FAC: _4(A)
2. Fraxinus pennsylvanica	5		FACW	Total Number of Dominant
3. Liquidambar styraciflua	5		FAC	Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	80%	= Total Cov	er	OBL species $\frac{70}{5}$ x 1 = $\frac{70}{10}$
50% of total cover: 40.0	20% of	total cover:	16.0	FACW species 5 $x_2 = 10$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species <u>52</u> x 3 = <u>156</u>
1. Liquidambar styraciflua	5	~	FAC	FACU species $0 x 4 = 0$
2. Ligustrum sinense	2		FAC	UPL species $0 \times 5 = 0$
				Column Totals: <u>127</u> (A) <u>236</u> (B)
3				
4				Prevalence Index = $B/A = 1.86$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				
8				\square 3 - Prevalence Index is $\leq 3.0^1$
	7% :	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 3.5	20% of	total cover:	1.4	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11	. <u> </u>			height.
12				
	:	= Total Cov	er	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1. Rubus argutus	40	~	FAC	
2				
3				
4	······			
- J	40%	Tatal Cau		Hydrophytic Vegetation
		= Total Cov		Present? Yes <u>/</u> No
		total cover:	8.0	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	the absence of	of indicators.)	
Depth	Matrix			x Feature	s				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	3
0 - 2	7.5YR 3/3	100					Silty Clay		
2 - 18	7.5YR 4/3	100					Silty Clay		
						·			
-									
-									
¹ Type: C=Co	ncentration, D=Dep	bletion, RM=F	Reduced Matrix, MS	S=Masked	I Sand Gr	ains.	² Location:	PL=Pore Lining, M=Ma	ıtrix.
	ndicators: (Applic							for Problematic Hydri	
Histosol ((A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, L	J) 1 cm M	uck (A9) (LRR O)	
Histic Ep	ipedon (A2)		Thin Dark Su	rface (S9)) (LRR S,	T, U)	2 cm M	uck (A10) (LRR S)	
Black His			Loamy Mucky			R O)		ed Vertic (F18) (outside	
	n Sulfide (A4)		Loamy Gleye		F2)			ont Floodplain Soils (F1	
	Layers (A5)		Depleted Mat	• •				lous Bright Loamy Soils	s (F20)
	Bodies (A6) (LRR F cky Mineral (A7) (L		Redox Dark S					A 153B) Irent Material (TF2)	
	esence (A8) (LRR U		Redox Depre					nallow Dark Surface (T	F12)
	ck (A9) (LRR P, T)	-)	Marl (F10) (L		0)			Explain in Remarks)	(2)
	Below Dark Surfac	ce (A11)	Depleted Och		(MLRA 1	51)	<u> </u>	F /	
	rk Surface (A12)		Iron-Mangane				T) ³ Indica	ators of hydrophytic ve	getation and
	airie Redox (A16) (', U)		and hydrology must be	
	ucky Mineral (S1) (LRR O, S)	Delta Ochric					ss disturbed or probler	natic.
	leyed Matrix (S4)		Reduced Ver						
	edox (S5) Matrix (S6)						эд) А 149А, 153С,	153D)	
	face (S7) (LRR P, \$	S. T. U)		ingin Loai			A 143A, 133C,	1550)	
	ayer (if observed)	-							
Type:									
Depth (inc	hes):						Hydric Soil I	Present? Yes	No 🖌
Remarks:	,						-		

Project/Site: Port of Little Rock City	/County: Pulaski County Sa	ampling Date: 2023-02-28
Applicant/Owner: Port of Little Rock	State: Arkansas Sa	
	tion, Township, Range: S34 T1N R11W	
Landform (hillslope, terrace, etc.): Flat Loc	al relief (concave, convex, none): None	Slope (%); 0
Subregion (LRR or MLRA): P 133B Lat: 34.67436		
Soil Map Unit Name: RmC - Rilla silt Ioam, 3 to 5 percent slopes	NWI classification	
Are climatic / hydrologic conditions on the site typical for this time of year?		
Are Vegetation, Soil, or Hydrology significantly dist		
Are Vegetation, Soil, or Hydrology naturally probler		
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, ir	nportant features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes	No
Remarks:		
Planted oak.		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators	s (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (L1 Saturation (A3) Hydrogen Sulfide Odor Water Marks (B1) Oxidized Rhizospheres Drift Deposits (B3) Presence of Reduced I Algal Mat or Crust (B4) Thin Muck Surface (C7 Iron Deposits (B5) Other (Explain in Remained Leaves (B9) Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Depth (inches): Gaturation Present? Yes No Depth (inches): Cincludes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	RR U) Drainage Pattern (C1) Moss Trim Lines along Living Roots (C3) Dry-Season Wa ron (C4) Crayfish Burrow in Tilled Soils (C6) Saturation Visible) Geomorphic Pos urks) Shallow Aquitare Sphagnum most Wetland Hydrology Present?	ated Concave Surface (B8) ns (B10) s (B16) ter Table (C2) s (C8) le on Aerial Imagery (C9) sition (D2) d (D3) st (D5) s (D8) (LRR T, U)
Beschoe Recorded Data (Stream gauge, monitoring well, actual photos, p		
Remarks:		

20.4		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	_	Species?	-	Number of Dominant Species
1. Quercus nigra	35	<u> </u>	FAC	That Are OBL, FACW, or FAC: 2 (A)
2. Quercus phellos	35	~	FACW	Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4	_			
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species 0 x 1 = 0
25.0		= Total Cov		FACW species 35 x 2 = 70
50% of total cover: <u>35.0</u>	20% of	total cover:	14.0	FAC species 35 x 3 = 105
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species $0 \times 4 = 0$
1				
2				UPL species 0 $x = 0$
3				Column Totals: <u>70</u> (A) <u>175</u> (B)
4				Prevalence Index = $B/A = 2.50$
5				
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^1$
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	f total cover		
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2	<u> </u>			Definitions of Four Vegetation Strata:
3				Tree Meedy plants evoluting visco 2 in (7.0 cm) or
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
				Conting (Chrysh - Weady plants availating vines loss
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	:	= Total Cov	er	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1 /				
2			FAC	
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation Present? Yes <u>V</u> No
50% of total cover:	20% of	total cover		
Remarks: (If observed, list morphological adaptations bel	ow).			
Pow planted				
Row planted.				

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 2	5YR 5/2	100					Silty Clay	
2 - 18	5YR 5/2	60	5YR 4/4	40	С	М	Silty Clay	
			•				<u> </u>	
				·	·			
-				·				
-								
-								
		·						
					. <u></u>		2	
			Reduced Matrix, MS			ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
								-
Histosol (. ,		Polyvalue Be					luck (A9) (LRR O)
	bipedon (A2)		Thin Dark Su					luck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B)
Black Hi	· · ·		Loamy Mucky			0)		
	n Sulfide (A4)		Loamy Gleye		(FZ)			ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)	T 11	Depleted Mat	. ,	-6)			lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark S	•			· ·	RA 153B) arent Material (TF2)
	cky Mineral (A7) (Ll esence (A8) (LRR L				. ,			hallow Dark Surface (TF12)
	ck (A9) (LRR C	')	Redox Depre		0)			Explain in Remarks)
	Below Dark Surfac	م (۵11)	Depleted Och			51)		
	rk Surface (A12)						T) ³ Indice	ators of hydrophytic vegetation and
	airie Redox (A12)	MI RA 150						and hydrology must be present,
	lucky Mineral (S1) (Delta Ochric			, 0)		ess disturbed or problematic.
	leyed Matrix (S4)	Litit 0, 0,	Reduced Ver			0A. 150B)		
	edox (S5)		Piedmont Flo					
	Matrix (S6)						A 149A, 153C,	. 153D)
	face (S7) (LRR P, S	S, T, U)			(,,	,,
	ayer (if observed)							
Type:	,							
	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:							Tryane con	
Remarks.								

Project/Site: Port of Little Rock	City/County: PL	ılaski County	Sampling Date: 2023-02-28
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Townsl		
Landform (hillslope, terrace, etc.): Flat	Local relief (con	cave. convex. none); None	Slope (%): 0
		Long: -92.1822	
Soil Map Unit Name: RmC - Rilla silt Ioam, 3		NWI classifica	
Are climatic / hydrologic conditions on the site typi			
Are Vegetation, Soil, or Hydrology			present? YesNo
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach si			
Hydrophytic Vegetation Present? Yes	No Is the Sa	impled Area	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No v within a	Wetland? Yes	No 🔽
Remarks:			
Planted oak.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil	
Surface Water (A1)	Aquatic Fauna (B13)		getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pa	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim L	· · · ·
Water Marks (B1)	Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	\Box Crayfish Bur	Water Table (C2)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soil	= '	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aqu	()
Inundation Visible on Aerial Imagery (B7)	- · · · · ·	FAC-Neutral	
Water-Stained Leaves (B9)		🔲 Sphagnum r	noss (D8) (LRR T, U)
Field Observations:			
	✓ Depth (inches):		
Water Table Present? Yes No _	✓ Depth (inches):	-	
Saturation Present? Yes <u>No</u> (includes capillary fringe)	Depth (inches):	Wetland Hydrology Preser	nt? Yes No 🖌
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous insp	ections), if available:	
Remarks:			

Sampling Point:	ГЗ-07
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		Dominan		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)		Species		Number of Dominant Species
1. Quercus nigra	70	 ✓ 	FAC	That Are OBL, FACW, or FAC: 1 (A)
2			·	Total Number of Dominant
3			·	Species Across All Strata: <u>1</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
		= Total Co	ver	OBL species $0 x_1 = 0$
50% of total cover: 35.0				FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 70 x 3 = 210
				FACU species $0 x 4 = 0$
1				UPL species $0 x 5 = 0$
2				Column Totals: <u>70</u> (A) <u>210</u> (B)
4				Prevalence Index = $B/A = 3.00$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				 ✓ Propin rest for hydrophydro vegetation ✓ 2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^{1}$
		= Total Co		
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30 ft r)				1
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1				
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				neight.
6			·	Sapling/Shrub – Woody plants, excluding vines, less
7	·			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9			·	of size, and woody plants less than 3.28 ft tall.
10			·	Woody vine – All woody vines greater than 3.28 ft in
11			·	height.
12				
		= Total Co	ver	
50% of total cover:	20% of	f total cove	r:	
Woody Vine Stratum (Plot size: 30 ft r)				
1 /				
2				
3			FAC	
4			·	
5				Hydrophytic
50% (1.1.1		= Total Co		Vegetation Present? Yes <u>V</u> No
50% of total cover:		r total cove	r:	
Remarks: (If observed, list morphological adaptations belo	ow).			
Row planted.				

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	n the absence	of indicators	s.)		
Depth	Matrix			x Feature							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0 - 18	7.5YR 4/4	100					Silt				
-											
						·					
-						·					
-											
						·					
						·					
-											
-											
	oncentration, D=Dep	letion RM=F	Peduced Matrix M	S=Masker	1 Sand Gr	ains	² Location:	PL=Pore Lin	ina M=Matri	iv	
	ndicators: (Applic					uno.		for Problem			
			Polyvalue Be			ррети		luck (A9) (LF	-		
	pipedon (A2)		Thin Dark Su					luck (A9) (Lr luck (A10) (L			
Black Hi								ed Vertic (F1			50 A B)
	n Sulfide (A4)		=	-		(U)		ont Floodplai			
	()				(FZ)			alous Bright L	, ,	•	, 3, 1)
	Layers (A5)	. т ну	Depleted Ma	. ,	-6)			-	Damy Solis (F20)	
-	Bodies (A6) (LRR F		=	•	,			RA 153B)			
	cky Mineral (A7) (L		Depleted Da					arent Materia			
	esence (A8) (LRR L	(ר			8)			hallow Dark	,	2)	
	ck (A9) (LRR P, T)		Marl (F10) (L				<u> </u> Other (Explain in Re	emarks)		
—	Below Dark Surfac	ce (A11)	Depleted Oc				3				
	ark Surface (A12)		Iron-Mangan					ators of hydro			ld
	airie Redox (A16) (land hydrolog			
	lucky Mineral (S1) (LRR O, S)	Delta Ochric					ess disturbed	or problema	tic.	
Sandy G	leyed Matrix (S4)		Reduced Ver								
Sandy R	edox (S5)		Piedmont Flo	odplain S	ioils (F19)	(MLRA 14	49A)				
	Matrix (S6)		Anomalous E	Bright Loa	my Soils ((F20) (MLF	RA 149A, 153C	, 153D)			
	face (S7) (LRR P, S										
Restrictive I	ayer (if observed)	:									
Туре:											
Depth (ind	ches):						Hydric Soil	Present?	Yes	No	~
Remarks:	,						-				
r tomanto.											

Project/Site: Port of Little Rock	City/County: Pulas	ski County	Sampling Date: 2023-02-20
Applicant/Owner: Port of Little Rock		State: Arkansas	Sampling Point: T3-08
	Section, Township,		
	Local relief (concav	e, convex, none); None	Slope (%); 0
Subregion (LRR or MLRA): P 133B			Datum: WGS 84
Soil Map Unit Name: RmC - Rilla silt Ioam, 3 to 5 percent		NWI classificat	
Are climatic / hydrologic conditions on the site typical for this			
Are Vegetation, Soil, or Hydrologys		re "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology n		f needed, explain any answer	
SUMMARY OF FINDINGS – Attach site map			
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes No	within a We		No
Agricultural field.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)
Sediment Deposits (B2) Presence Drift Deposits (B3) Recent I Algal Mat or Crust (B4) Thin Muter Iron Deposits (B5) Other (E Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Drainage Pat Drainage Pat Moss Trim Lir Dry-Season V Crayfish Burn C6) Saturation Vis Geomorphic I Shallow Aquit FAC-Neutral	etated Concave Surface (B8) terns (B10) nes (B16) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3)	
	oth (inches): oth (inches):		
	oth (inches):	Wetland Hydrology Present	t? Yes No
Remarks:			

	0		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 x 30			Species?		Number of Dominant Species	(
					That Are OBL, FACW, or FAC: 0	(A)
2					Total Number of Dominant	(5)
3					Species Across All Strata: 2	(B)
4					Percent of Dominant Species	
5					That Are OBL, FACW, or FAC: 0	(A/B)
6					Prevalence Index worksheet:	
7					Total % Cover of: Multiply by:	_
8					OBL species 0 x 1 = 0	
_			= Total Cov		FACW species 0 x 2 = 0	-
	50% of total cover:	20% of	total cover		FAC species 15 x 3 = 45	
Sapling/Shrub Stratum (Plot size:					FACU species 73 x 4 = 292	-
1					UPL species $0 \times 5 = 0$	-
2					Column Totals: 88 (A) 337	(B)
3						(2)
4					Prevalence Index = $B/A = 3.83$	-
5					Hydrophytic Vegetation Indicators:	
6				<u> </u>	1 - Rapid Test for Hydrophytic Vegetation	
7			<u> </u>		2 - Dominance Test is >50%	
8					\square 3 - Prevalence Index is $\leq 3.0^1$	
		=	Total Cov	rer	Problematic Hydrophytic Vegetation ¹ (Explain	ו)
	50% of total cover:	20% of	total cover	·		
Herb Stratum (Plot size: 20 x 20	0)				¹ Indicators of hydric soil and wetland hydrology m	ust
1. Cynodon dactylon		40	~	FACU	be present, unless disturbed or problematic.	
2. Festuca rubra		30	~	FACU	Definitions of Four Vegetation Strata:	
3. Andropogon virginicus		15		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 c	m) or
4. Ranunculus sp.		3			more in diameter at breast height (DBH), regardle	
5. Cerastium arvense		2		FACU	height.	
6. Cardamine hirsuta		1		FACU	Sapling/Shrub – Woody plants, excluding vines,	less
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8					Herb – All herbaceous (non-woody) plants, regard	
9.					of size, and woody plants less than 3.28 ft tall.	11622
10						. .
11					Woody vine – All woody vines greater than 3.28 theight.	ft in
12.					noight.	
		91% =	= Total Cov	er		
5	50% of total cover: 45.5					
Woody Vine Stratum (Plot size:		207001				
1						
2						
3						
4						
5					Hydrophytic	
			= Total Cov		Vegetation Present? Yes No	
	50% of total cover:		total cover			
Remarks: (If observed, list morph	nological adaptations below	w).				

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks 0 - 2 5YR 3/3 100 Silt Silt
0-2 5YR 3/3 100 Silt
2 - 18 5YR 4/6 100 Silt - - - - - - - -
-
¹ Turney C=Concentration D=Depletion DM=Deduced Matrix MC=Meeted Cand Oreing
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
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 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)
Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F9) (LKK P, 3, 1)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)
Muck Presence (A8) (LRR U)
$\square 1 \text{ cm Muck (A9) (LRR P, T)} \qquad \square \text{ Marl (F10) (LRR U)} \qquad \square \text{ Other (Explain in Remarks)}$
Depleted Below Dark Surface (A11)
Thick Dark Surface (A12)
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)
Sandy Redox (S5)
Stripped Matrix (S6)
Dark Surface (S7) (LRR P, S, T, U)
Restrictive Layer (if observed):
Туре:
Depth (inches): No 🗸
Remarks:

Project/Site: Port of Little Rock		City/County: Pul	aski County	_ Sampling Date: 2023-03-01
Applicant/Owner: Port of Little Rock			State: Arkansa	
			p, Range: S27 T1N R11W	
Landform (hillslope, terrace, etc.): Flat		Local relief (conc	ave, convex, none): None	Slope (%): 0
	Lat:		·	Datum: WGS 84
Soil Map Unit Name: Ko - Keo silt Ioam,				cation: none
Are climatic / hydrologic conditions on the sit				
Are Vegetation, Soil, or Hydr		-		
Are Vegetation, Soil, or Hydr		-		
SUMMARY OF FINDINGS – Attac				
Livelander the Manadation Dresset 2		<u> </u>		
Hydrophytic Vegetation Present?	′es No ′es No	✓ Is the Sar	npled Area	
Wetland Hydrology Present?	′es No	✓ within a V	Vetland? Yes	No
Remarks:				
Cattle pasture.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is requ	ired; check all that	apply)	Surface Sc	il Cracks (B6)
Surface Water (A1)	Aquatic Fau	. ,	Sparsely V	egetated Concave Surface (B8)
High Water Table (A2)		ts (B15) (LRR U)		Patterns (B10)
Saturation (A3)	— · · ·	ulfide Odor (C1)	_	Lines (B16)
Water Marks (B1)		izospheres along Living Reduced Iron (C4)		n Water Table (C2) urrows (C8)
Sediment Deposits (B2) Drift Deposits (B3)		Reduction in Tilled Soils	= '	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck S			ic Position (D2)
Iron Deposits (B5)		in in Remarks)		juitard (D3)
Inundation Visible on Aerial Imagery (E	37)		FAC-Neutr	al Test (D5)
Water-Stained Leaves (B9)			Sphagnum	moss (D8) (LRR T, U)
Field Observations:				
		inches):		
		inches):		
Saturation Present? Yes (includes capillary fringe)	No V Depth (inches):	Wetland Hydrology Pres	ent? Yes No
Describe Recorded Data (stream gauge, m	onitoring well, aeria	l photos, previous inspe	ctions), if available:	
Remarks:				

20 # *		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r) 1.)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2 3				Total Number of Dominant Species Across All Strata: 1 (B)
4 5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0 (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species 0 x 1 = 0
50% of total cover:	20% of	total cover	:	FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 15 x 3 = 45
1 /				FACU species <u>72</u> x 4 = <u>288</u>
2				UPL species <u>0</u> x 5 = <u>0</u>
3.				Column Totals: <u>87</u> (A) <u>333</u> (B)
4				Prevalence Index = $B/A = 3.83$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 20 ft r) 1. Cynodon dactylon	55	~	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 Andropogon virginicus	15		FAC	Definitions of Four Vegetation Strata:
3. Ranunculus sp.	15			
4 Trifolium repens	15		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5 Cyperus sp.	2			height.
6 Houstonia pusilla	2		FACU	Senling/Shrub Weedy plants evoluting vince loss
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	10.4%			
52.0		= Total Cov		
50% of total cover: <u>52.0</u>	20% of	total cover	20.8	
Woody Vine Stratum (Plot size: <u>30 ft r</u>)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes No V
50% of total cover:		total cover	:	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	n the absence	of indicator	rs.)		
Depth	Matrix			x Feature							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0 - 18	5YR 5/3	100					Silt Loam				
-											
					·		·				
-											
-											
-											
-											
	oncentration, D=De	nletion RM=6	educed Matrix M	S=Masker	d Sand Gr	aine	² Location:	PI =Pore Liu	ning, M=Matr	iv	
	Indicators: (Applie					airi5.			natic Hydric		
-						DD 0 T 1			-	0013.	
			Polyvalue Be					luck (A9) (L			
	pipedon (A2)		Thin Dark Su					luck (A10) (I			A D)
Black Hi	()		Loamy Muck	-		(O)			18) (outside		
	n Sulfide (A4)		Loamy Gleye		(F2)			•	in Soils (F19)	•	, I)
	d Layers (A5)		Depleted Ma					-	Loamy Soils ((F20)	
-	Bodies (A6) (LRR F		Redox Dark		,			A 153B)			
	ıcky Mineral (A7) (L		Depleted Da		. ,			arent Materia			
	esence (A8) (LRR I		Redox Depre	•	8)				Surface (TF1	12)	
	ıck (A9) (LRR P, T)		Marl (F10) (L				U Other (Explain in R	(emarks)		
	d Below Dark Surfac	ce (A11)	Depleted Oc								
	ark Surface (A12)		Iron-Mangan						rophytic vege		
	rairie Redox (A16) (Umbric Surfa	ace (F13)	(LRR P, 1	r, U)		-	ogy must be p		
Sandy M	lucky Mineral (S1) (LRR O, S)	Delta Ochric					ess disturbed	d or problema	atic.	
Sandy C	Bleyed Matrix (S4)		Reduced Ver	rtic (F18) ((MLRA 15	50A, 150B))				
Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	49A)				
Stripped	Matrix (S6)		Anomalous E	Bright Loai	my Soils ((F20) (MLR	RA 149A, 153C,	153D)			
Dark Su	rface (S7) (LRR P,	S, T, U)									
Restrictive I	Layer (if observed)):							-		
Type:											
Depth (inc	ches).						Hydric Soil	Present?	Yes	No 🖌	
Remarks:											_
Remarks.											

	_ City/County: Pulaski Coun	ty	Sampling Date: 2023-03-01
ough	Local relief (concave. convex	. none): Concave	Slope (%); 1
n the site typical for this time of	year? Yes 🖌 No	(If no, explain in R	emarks.)
	-		
or Hydrology naturally p	problematic? (If needed,	explain any answe	rs in Remarks.)
Attach site map showir	ng sampling point locati	ons, transects	, important features, etc.
Yes 🖌 No	- within a Wetland?	Yes 🔽	No
		Secondary Indica	tors (minimum of two required)
Aquatic Fauna (E Marl Deposits (B Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Thin Muck Surfac Other (Explain in agery (B7)	B13) 15) (LRR U) e Odor (C1) oheres along Living Roots (C3) uced Iron (C4) uction in Tilled Soils (C6) ce (C7) Remarks) es): <u>12+</u> es):	Drainage Pat Moss Trim Li Dry-Season Crayfish Burr Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Sphagnum m	getated Concave Surface (B8) tterns (B10) nes (B16) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) noss (D8) (LRR T, U)
auge, monitoring well, aerial pho	otos, previous inspections), if av	ailable:	
	ough Lat: 34.6 loam, 0 to 1 percent slope n the site typical for this time of or Hydrology significant or Hydrology naturally p Attach site map showin Yes No Yes Yes No Presence of Red Recent Iron Red Other (Explain in agery (B7) Substantiation Depth (inchestion) Substantiation Depth (inchestion) Yes Depth (inchestion)	seck	Section, Township, Range: S27 T1N R11W ough Local relief (concave, convex, none): Concave Lat: 34.67406 Long: -92.17033 loam, 0 to 1 percent slopes, rarely flooded NWI classifica n the site typical for this time of year? Yes No (If no, explain in R or Hydrology

FO f +		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 50 ft r)		Species?		Number of Dominant Species	
_{1.} Carya aquatica	10	 ✓ 	OBL	That Are OBL, FACW, or FAC: <u>3</u> (A	۹)
2				Total Number of Deminent	
3				Total Number of Dominant Species Across All Strata: <u>3</u> (E	3)
4					,
				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100 (A	\ /В)
6				Prevalence Index worksheet:	
7					
8				Total % Cover of: Multiply by:	
	10% :	= Total Cov	/er	OBL species <u>89</u> x 1 = <u>89</u>	
50% of total cover: 5.0				FACW species <u>4</u> x 2 = <u>8</u>	
	20 % 01			FAC species $0 x 3 = 0$	
Sapling/Shrub Stratum (Plot size: 50 ft r)	50			FACU species 0 x 4 = 0	
1. Cephalanthus occidentalis	50	<u> </u>	OBL	UPL species 0 $x = 0$	
2					
3				Column Totals: <u>93</u> (A) <u>97</u>	(B)
4				Developer lader D/A 104	
				Prevalence Index = $B/A = 1.04$	
5					
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				\square 3 - Prevalence Index is ≤3.0 ¹	
	50% :	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover: 25.0					
	207001		·		
Herb Stratum (Plot size: 50 ft r)	20			¹ Indicators of hydric soil and wetland hydrology mus	st
1. Ludwigia alternifolia	20	 	OBL	be present, unless disturbed or problematic.	
2. Juncus effusus	5		OBL	Definitions of Four Vegetation Strata:	
3. Callitriche stagnalis	2		OBL	Tree Mandu plants such discuires 2 is (7.0 see	\ ~~
4. Cyperus polystachyos	2		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless	
5 Panicum verrucosum	2		FACW	height.	5 01
···	1		OBL		
6. Callitriche palustris				Sapling/Shrub – Woody plants, excluding vines, le	SS
7. Lemna minor	1		OBL	than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regardle	285
9				of size, and woody plants less than 3.28 ft tall.	500
10				Woody vine – All woody vines greater than 3.28 ft	in
11				height.	
12					
	33% :	= Total Cov	/er		
50% of total cover: 16.5	20% of	total cover	<u>:</u> 6.6		
Woody Vine Stratum (Plot size: 50 ft r)					
1, ,					
2					
3					
4					
5				Hydrophytic	
		= Total Cov		Vegetation	
50% of total cover:				Present? Yes Vo No	
			•		
Remarks: (If observed, list morphological adaptations belo	w).				

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	the absence	of indicator	rs.)	
Depth	Matrix		Redo	x Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
-										
-										
					·					
-				·						
-										
-										
				<u></u>	·					
-										
	oncentration, D=De					ains.			ning, M=Matrix	
-	Indicators: (Applie	cable to all L	_						natic Hydric S	ioils°:
Histosol	· · ·		Polyvalue Be					luck (A9) (Li		
	oipedon (A2)		Thin Dark Su					luck (A10) (L		
Black Hi			Loamy Muck	-	. , .	l O)			8) (outside M	
	en Sulfide (A4)		Loamy Gleye		(F2)				in Soils (F19)	
	d Layers (A5)		Depleted Ma	. ,	-0)			-	Loamy Soils (F	20)
	Bodies (A6) (LRR F		Redox Dark	•	,			A 153B) arent Materia		
	icky Mineral (A7) (L		Depleted Dar		. ,				Surface (TF12	
	esence (A8) (LRR I))	Redox Depre		0)			Explain in R	•	<u>(</u>)
	ick (A9) (LRR P, T) d Below Dark Surfac	CO (A11)	Marl (F10) (L Depleted Ocl			51)		схріані ні к	emarks)	
	ark Surface (A12)		Iron-Mangan				T) ³ Indice	ators of hydr	rophytic vegeta	ation and
	rairie Redox (A16) (MI RA 150A)						-	gy must be pre	
	lucky Mineral (S1)		Delta Ochric			, 0)		•	d or problemati	
	Bleyed Matrix (S4)	,,,	Reduced Ver			0A. 150B)	anne			
	Redox (S5)		Piedmont Flo				ĐA)			
	Matrix (S6)						, A 149A, 153C,	153D)		
Dark Su	rface (S7) (LRR P,	S, T, U)		0	,					
Restrictive I	Layer (if observed)):								
Туре:										
Depth (in	ches):						Hydric Soil	Present?	Yes 🖌	No
Remarks:										
No nit d	ug due to in	undation	• hydric soil	c 2001	ımed					
no pit u	ug uue to int	undation	, frydric 30fi	5 0550	inicu.					

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-03-01
Applicant/Owner: Port of Little Rock		State: Arkansas	Sampling Point: T3-11
	Section, Township	, Range: S34 T1N R11W	
Landform (hillslope, terrace, etc.): Terrace	Local relief (conca		Slope (%): <u>1</u>
Subregion (LRR or MLRA): P 133B	_{Lat:} 34.67399	Long: -92.1704	Datum: WGS 84
Soil Map Unit Name: BPI - Pits, borrow			tion: PFO1A
Are climatic / hydrologic conditions on the site typical for th	is time of year? Yes 🖌 N		
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map		· · · -	
Hydrophytic Vegetation Present? Yes I Hydric Soil Present? Yes I Wetland Hydrology Present? Yes I	No <u>v</u> within a W		No
Remarks:			
Cattle pasture.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
High Water Table (A2) Marl Date Saturation (A3) Hydrog Water Marks (B1) Oxidize Sediment Deposits (B2) Presen Drift Deposits (B3) Recent Algal Mat or Crust (B4) Thin M Iron Deposits (B5) Other (Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Detection	c Fauna (B13) eposits (B15) (LRR U) gen Sulfide Odor (C1) ed Rhizospheres along Living F ace of Reduced Iron (C4) t Iron Reduction in Tilled Soils (uck Surface (C7) Explain in Remarks)	C6) Capton Control Con	yetated Concave Surface (B8) terns (B10) nes (B16) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3)
	epth (inches):		
Saturation Present? Yes No De (includes capillary fringe)	epth (inches):	Wetland Hydrology Presen	t? Yes No 🔽
Describe Recorded Data (stream gauge, monitoring well, Remarks:	aerial photos, previous inspec	tions), if available:	

		Absolute	Dominant	Indicator	Dominance Test worksheet	t:	
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	<u>Status</u>	Number of Dominant Species		
					That Are OBL, FACW, or FA	C: <u>0</u>	(A)
2					Total Number of Dominant		
3					Species Across All Strata:	1	(B)
4				·	Percent of Dominant Species	2	
5				·	That Are OBL, FACW, or FA		(A/B)
6						-4-	
7					Prevalence Index workshee		
8					Total % Cover of:		-
		:	= Total Cov	/er	OBL species 0		_
509	% of total cover:	20% of	total cover	:	FACW species 2		_
Sapling/Shrub Stratum (Plot size:	30 ft r)				FAC species 0		-
1					FACU species 77		-
2						x 5 = 0	_
3.					Column Totals: 79	(A) <u>312</u>	(B)
4.					Prevalence Index = B/	A - 3.95	
5							
6					Hydrophytic Vegetation Inc		
					1 - Rapid Test for Hydro		
7					2 - Dominance Test is >		
8					3 - Prevalence Index is ≤		
500			= Total Cov		Problematic Hydrophytic	Vegetation ¹ (Expla	in)
	% of total cover:	20% of	total cover	·			
)	70			¹ Indicators of hydric soil and	wetland hydrology r	nust
1. Cynodon dactylon		70	<u> </u>	FACU	be present, unless disturbed	•	
2. Ranunculus sp.		10	. <u> </u>		Definitions of Four Vegetat	ion Strata:	
3. Croton capitatus		5			Tree – Woody plants, exclud	ing vines, 3 in. (7.6	cm) or
4. Poa annua		5		FACU	more in diameter at breast he	eight (DBH), regard	ess of
_{5.} Allium canadense		2		FACU	height.		
_{6.} Rumex pulcher		2		FACW	Sapling/Shrub – Woody plan		
7					than 3 in. DBH and greater th	nan 3.28 ft (1 m) tall	-
8					Herb – All herbaceous (non-	woody) plants, rega	rdless
9					of size, and woody plants les	s than 3.28 ft tall.	
10					Woody vine – All woody vine	es greater than 3.28	t ft in
11					height.		
12							
		94% :	= Total Cov	ver			
509	% of total cover: 47.0	20% of	total cover	18.8			
Woody Vine Stratum (Plot size: 30)ftr)						
1							
2.							
3.							
4.							
5							
			= Total Cov		Hydrophytic Vegetation		
500	% of total cover:				Present? Yes	No 🖌	
				·			
Remarks: (If observed, list morphol	ogical adaptations belo	w).					

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the in	ndicator	or confirm	the absence of ir	ndicators.)	
Depth	Matrix			x Features	.	1 2	Tautum	Demender	
<u>(inches)</u> 0 - 2	Color (moist) 5YR 4/4	<u>%</u>	Color (moist)	%	<u>I ype</u>	Loc ²	Texture	Remarks	
2 - 17	5YR 5/4	100					Silt		<u> </u>
2-17	5TK 5/4	100		·			<u> </u>		
-		·		·					
		·		·					
				·			·		
		·		·					
-							2		
	ncentration, D=Dep ndicators: (Applic					ains.		Pore Lining, M=Matr Problematic Hydric	
Histosol (Histic Ep Black His Hydroge Stratified Organic 5 cm Mu Muck Pro 1 cm Mu Depleted Thick Da Coast Pr Sandy M Sandy R Sandy R Stripped	(A1) bipedon (A2)	, T, U) RR P, T, U)) e (A11) MLRA 150A) ⊾RR O, S)	 Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Oct Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo 	low Surfac rface (S9) y Mineral (d Matrix (F trix (F3) Surface (F k Surface ssions (F8 RR U) nric (F11) (ese Masse ce (F13) (I (F17) (ML tic (F18) (I odplain So	ce (S8) (L (LRR S, F1) (LRR 5, F1) (LRR 5, F2) 6) (F7) 8) (MLRA 1 ces (F12) (LRR P, T RA 151) MLRA 15 bills (F19)	T, U) 2 O) LRR O, P, , U) 20A, 150B) (MLRA 14	 1 cm Muck 2 cm Muck Reduced V Piedmont F Anomalous (MLRA 1 Red Parent Very Shalld Other (Expl T) ³ Indicators wetland unless compared to the second se	(A9) (LRR O) (A10) (LRR S) (ertic (F18) (outside I) Floodplain Soils (F19) Bright Loamy Soils (53B) t Material (TF2) ow Dark Surface (TF1 lain in Remarks) s of hydrophytic vege hydrology must be p disturbed or problema	MLRA 150A,B) (LRR P, S, T) (F20) (2) tation and resent,
	ayer (if observed):								
Type:	ches):						Hydric Soil Pres	sent? Yes	No 🖌
Remarks:									

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-0	3-01
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T3-12	
	Section, Township, Range: S34 T1N R11W	
• • • •	Local relief (concave, convex, none): Concave Slope (%): 1	
	2'404 Long: -92.17012 Datum: WG	S 84
Soil Map Unit Name: BPI - Pits, borrow	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of ye		
	disturbed? Are "Normal Circumstances" present? YesNo	~
Are Vegetation, Soil, or Hydrology naturally pr		
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features	, etc.
Hydrophytic Vegetation Present? Yes 🗹 No	In the Completion	
Hydric Soil Present? Yes 🖌 No	Is the Sampled Area within a Wetland? Yes <u>V</u> No No	
Wetland Hydrology Present? Yes <u>V</u> No		
Remarks:		
Linear drainage at toe of levee.		
HYDROLOGY		I
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two requ	ired)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)	<u>Ieu</u>
Surface Water (A1)		38)
High Water Table (A2)		50,
Saturation (A3)		
	eres along Living Roots (C3) Dry-Season Water Table (C2)	
Sediment Deposits (B2)	ced Iron (C4)	
	tion in Tilled Soils (C6)))
Algal Mat or Crust (B4)		
Iron Deposits (B5)		
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)	
Surface Water Present? Yes <u>V</u> No <u>Depth</u> (inches): 2	
Water Table Present? Yes No Compared Depth (inches		
Saturation Present? Yes No V Depth (inches		
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), ir available:	
Remarks:		

		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 1	(A)
2			. <u> </u>	Total Number of Dominant	
3				1	(B)
4				Percent of Dominant Species	
5					(A/B)
6					· /
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
		= Total Cov		OBL species $65 x 1 = 65$	
50% of total cover:				FACW species <u>10</u> x 2 = <u>20</u>	
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $0 \times 3 = 0$	
				FACU species 0 x 4 = 0	
1				UPL species $0 \times 5 = 0$	
2				Column Totals: 75 (A) 85	(B)
3					(2)
4			<u> </u>	Prevalence Index = $B/A = 1.13$	
5				Hydrophytic Vegetation Indicators:	
6				✓ 1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				\square 3 - Prevalence Index is $\leq 3.0^1$	
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)	\ \
50% of total cover:	20% of	total cover)
Herb Stratum (Plot size: 10 ft r)				1	
1 Ludwigia alternifolia	50	~	OBL	¹ Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.	ust
2. Carex sp.	15		000		
3. Eragrostis elliottii	10		FACW	Definitions of Four Vegetation Strata:	
Juncus effusus	10			Tree - Woody plants, excluding vines, 3 in. (7.6 cm	
			OBL	more in diameter at breast height (DBH), regardles	ss of
5. Callitriche stagnalis	5		OBL	height.	
6				Sapling/Shrub – Woody plants, excluding vines, le	ess
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regard	less
9				of size, and woody plants less than 3.28 ft tall.	1000
10					
11				Woody vine – All woody vines greater than 3.28 ft height.	(IN
12.				noight.	
12.	90%	= Total Cov			
500/ aftertal array 15 0					
50% of total cover: <u>45.0</u>	20% of	total cover	10.0		
Woody Vine Stratum (Plot size: 30 ft r)					
1					
2					
3					
4					
5				Hydrophytic	
		= Total Cov		Vegetation	
50% of total cover:				Present? Yes <u>V</u> No	
			·		
Remarks: (If observed, list morphological adaptations belo	w).				

Profile Description: (Describe to the d	pth needed to docun	nent the i	indicator	or confirm	the absence of	of indicators.)
Depth <u>Matrix</u>						
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
<u>0-16</u> 7.5YR 6/1 70	7.5YR 5/6	30	С	M	Silty Clay	
-						
						·
·			·		<u> </u>	
<u> </u>					· <u> </u>	
-						
¹ Type: C=Concentration, D=Depletion, R	M=Reduced Matrix. MS	-Masked	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to a						for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Be	low Surfa	ce (S8) (I	.RR S, T, U	J) 1 cm M	uck (A9) (LRR O)
Histic Epipedon (A2)	Thin Dark Su		. , .			uck (A10) (LRR S)
Black Histic (A3)	Loamy Mucky			R O)	Reduce	ed Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleye		(F2)			nt Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Mat					lous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark S	•	,			A 153B)
5 cm Mucky Mineral (A7) (LRR P, T, Muck Presence (A8) (LRR U)	U) Depleted Dar		• •			rent Material (TF2) nallow Dark Surface (TF12)
\square 1 cm Muck (A9) (LRR P, T)	Marl (F10) (L		0)			Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Och		(MLRA 1	51)		
Thick Dark Surface (A12)	Iron-Mangane	ese Mass	es (F12) (LRR O, P,	T) ³ Indica	ators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 15		ce (F13)	(LRR P, 1	', U)	wetla	and hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S						ss disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Ver					
Sandy Redox (S5) Stripped Matrix (S6)	Piedmont Flo				9A) A 149A, 153C,	1520)
Dark Surface (S7) (LRR P, S, T, U)		ngni Luai	iny Solis (A 149A, 155C,	1550)
Restrictive Layer (if observed):						
Туре:						
Depth (inches):					Hydric Soil I	Present? Yes 🖌 No
Remarks:					-	

Project/Site: Port of Little Rock	City/County: Pula	aski County Sampling Date: 2023-03-01			
Applicant/Owner: Port of Little Rock		as Sampling Point: T3-13			
	Section, Township				
Landform (hillslope, terrace, etc.): Artificial Levee	E Local relief (conca		Slope (%) [.] 0-40		
Subregion (LRR or MLRA): P 133B					
Soil Map Unit Name: BPI - Pits, borrow		NWI classifica			
Are climatic / hydrologic conditions on the site typica					
Are Vegetation, Soil, or Hydrology _					
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS – Attach site	map showing sampling poi	nt locations, transects	s, important features, etc.		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No V Is the Sam	•			
	No within a W	etland? Yes	No		
Remarks:					
Levee.					
HYDROLOGY					
Wetland Hydrology Indicators:	<u> </u>	Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is required; ch	neck all that apply)		Cracks (B6)		
Surface Water (A1)		getated Concave Surface (B8)			
High Water Table (A2)	Drainage Patterns (B10)				
Saturation (A3)	Moss Trim Lines (B16)				
□ Water Marks (B1)	coots (C3) Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Crayfish Burrows (C8)				
Drift Deposits (B3)	C6) Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aqu	itard (D3)		
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	Test (D5)		
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)				
Field Observations:					
	Depth (inches):				
	Depth (inches):				
Saturation Present? Yes No _	Depth (inches):	Wetland Hydrology Prese	nt? Yes No 🖌		
Describe Recorded Data (stream gauge, monitorin	ig well, aerial photos, previous inspec	tions), if available:			
Remarks:					
			t Indicator	Dominance Test worksheet:	
---	-----------	----------------	-------------	---	
Tree Stratum (Plot size: 30 ft r) 1.)		<u>Species</u>		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)	
2					
3.				Total Number of Dominant Species Across All Strata: <u>2</u> (B)	
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 0 (A/B)	
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8				$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
				FACW species $0 \times 1 = 0$	
50% of total cover:	20% of	total cove	r:		
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 0 $x_3 = 0$	
1				FACU species $\frac{87}{2}$ x 4 = $\frac{348}{2}$	
2				UPL species 0 $x 5 = 0$	
3				Column Totals: <u>87</u> (A) <u>348</u> (B)	
4				Prevalence Index = B/A = 4.0	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				\square 2 - Dominance Test is >50%	
8					
··				\square 3 - Prevalence Index is $\leq 3.0^{1}$	
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)	
10 ft r	20 % 01		··		
Herb Stratum (Plot size: 10 It I	50	~	FACU	¹ Indicators of hydric soil and wetland hydrology must	
2. Trifolium repens	30			be present, unless disturbed or problematic.	
		V	FACU	Definitions of Four Vegetation Strata:	
3. Croton capitatus				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or	
4. Stellaria media	5		FACU	more in diameter at breast height (DBH), regardless of	
5. Geranium carolinianum	3			height.	
_{6.} Houstonia pusilla	2		FACU	Sapling/Shrub – Woody plants, excluding vines, less	
7. Lepidium sp.	2			than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
9			·		
10			·	Woody vine – All woody vines greater than 3.28 ft in	
11				height.	
12	102% :	Tatal Oa	- <u></u>		
50% ()) 51					
50% of total cover: <u>51</u>	.0 20% of	total cove	r: 20.4		
Woody Vine Stratum (Plot size: 30 ft r)					
1					
2					
3					
4					
5				Hydrophytic	
	:	= Total Co	ver	Vegetation	
50% of total cover:	20% of	total cove	r:	Present? Yes No V	
Remarks: (If observed, list morphological adaptations b	elow).			-	
	,				

Profile Desc	cription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	the absence of	of indicato	ors.)	
Depth	Matrix		Redo	x Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
-										
-										
				·		<u> </u>				
-										
-										
_				<u> </u>	·					_
-				<u> </u>						
	oncentration, D=Dep					ains.			ining, M=Matr	
Hydric Soil	Indicators: (Applic	able to all Li	RRs, unless other	rwise not	ed.)		Indicators f	for Proble	matic Hydric	Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, U)) <u> </u> 1 cm M	uck (A9) (L	.RR O)	
Histic E	pipedon (A2)		Thin Dark Su	rface (S9) (LRR S,	T, U)	2 cm M	uck (A10) ((LRR S)	
Black H	istic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduce	ed Vertic (F	18) (outside	MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix ((F2)) (LRR P, S, T)
	d Layers (A5)		Depleted Ma	. ,				-	Loamy Soils ((F20)
	Bodies (A6) (LRR P		Redox Dark		,			A 153B)		
	ucky Mineral (A7) (L l		Depleted Dar					rent Materi	· ·	
	resence (A8) (LRR L	J)	Redox Depre		8)				CSurface (TF1	12)
	uck (A9) (LRR P, T)		Marl (F10) (L				U Other (B	Explain in F	Remarks)	
	d Below Dark Surfac	e (A11)					-) 31			tetter end
	ark Surface (A12)		Iron-Mangan						drophytic vege	
	rairie Redox (A16) (I		—			, 0)		-	ogy must be p	
	/lucky Mineral (S1) (Gleyed Matrix (S4)	LKK (), 5)	Delta Ochric			0A 150D)	unie	ss disturbe	d or problema	auc.
	Redox (S5)		Reduced Ver				201			
	Matrix (S6)						A 149A, 153C,	153D)		
	Inface (S7) (LRR P, \$	ат IN		ngni Loai			- 143A, 133C,	1550)		
	Layer (if observed)	-								
Type:		-								
							Undria Cail I	Dreeent?	Vaa	
Depth (in	ches).						Hydric Soil I	Present?	Yes	No <u>v</u>
Remarks:										
No pit; r	nan made lev	vee; soils	s assumed i	non-h	ydric.					
-										

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-03-01
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Township		
		ve, convex, none): None	Slope (%) [.] 3
Subregion (LRR or MLRA): P 133B Lat			Datum: WGS 84
Soil Map Unit Name: BPI - Pits, borrow		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this			
Are Vegetation, Soil, or Hydrology sig			
Are Vegetation, Soil, or Hydrology na	turally problematic? (If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing sampling poin	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes <u>/</u> No			
Hydric Soil Present? Yes <u>V</u> No	is the ball		
Wetland Hydrology Present? Yes <u>V</u> No	within a we	etland? Yes <u></u>	, No
Remarks:			
Terrace between levee and backwate	er lake.		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all th	at apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	auna (B13)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	osits (B15) (LRR U)	🔲 Drainage Pa	tterns (B10)
	Sulfide Odor (C1)	🔲 Moss Trim L	ines (B16)
Water Marks (B1)	Rhizospheres along Living R	oots (C3) 🔲 Dry-Season	Water Table (C2)
Sediment Deposits (B2)	of Reduced Iron (C4)	Crayfish Bur	rows (C8)
Drift Deposits (B3)	on Reduction in Tilled Soils (C6) 🗹 Saturation V	isible on Aerial Imagery (C9)
	k Surface (C7)	Geomorphic	Position (D2)
	plain in Remarks)	Shallow Aqu	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	, ,
Water-Stained Leaves (B9)		Sphagnum r	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes <u>V</u> No Dept			
Water Table Present? Yes <u>No</u> Dept			
Saturation Present? Yes No Ves Dept (includes capillary fringe)	n (inches):	Wetland Hydrology Prese	nt? Yes 🚩 No
Describe Recorded Data (stream gauge, monitoring well, as	erial photos, previous inspect	ions), if available:	
Demoslus			
Remarks:			

20 (1	.		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft	<u>r)</u>		Species?		Number of Dominant Species
1. Populus deltoides		40	<u> </u>	FAC	That Are OBL, FACW, or FAC: <u>5</u> (A)
2. Platanus occidentalis		15		FACW	Total Number of Dominant
3. Ulmus americana		15	<u> </u>	FAC	Species Across All Strata: (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 83.3 (A/B)
6					Prevalence Index worksheet:
7					Total % Cover of:Multiply by:
8					$\begin{array}{c} \hline \hline \\ $
			= Total Cov		FACW species 35 $x 2 = 70$
	50% of total cover: 35.0	20% of	total cover	<u>: 14.0</u>	FAC species 60 x 3 = 180
Sapling/Shrub Stratum (Plot siz	e: <u>30 ft r</u>)				FACU species 5 $x 4 = 20$
1					$\begin{array}{c} \text{PACU Species} \underline{0} \\ \text{UPL species} \underline{0} \\ \text{X 5 = } \\ 0 \\ \end{array}$
2					
3					Column Totals: <u>100</u> (A) <u>270</u> (B)
4					Prevalence Index = $B/A = 2.7$
5					Hydrophytic Vegetation Indicators:
6					1 - Rapid Test for Hydrophytic Vegetation
7					2 - Dominance Test is >50%
8					$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$
			= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
	50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30 ft	r)				¹ Indicators of hydric soil and wetland hydrology must
1. Equisetum hyemale		20	~	FACW	be present, unless disturbed or problematic.
2.					Definitions of Four Vegetation Strata:
3					
4.					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5					height.
6					Sapling/Shrub – Woody plants, excluding vines, less
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8					
					Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9					
10					Woody vine – All woody vines greater than 3.28 ft in
			·		height.
12		20% :	Tatal Oa		
	50% of total cover: 10.0		 Total Cov total cover 		
		20% of	total cover	4.0	
Woody Vine Stratum (Plot size: 1 Lonicera japonica	<u> </u>	5			
··		5		FACU	
2. Smilax bona-nox			~	FAC	
3		. <u> </u>		. <u> </u>	
4			<u> </u>		
5					Hydrophytic
			= Total Cov		Vegetation Present? Yes <u>Ves</u> No
	50% of total cover: 5.0	20% of	total cover	<u>:</u> 2.0	
Remarks: (If observed, list mor	phological adaptations belo	w).			

Profile Desc	cription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	the absence	of indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
-									
-									
					·				
-									
-									
_									
-									
	oncentration, D=Dep					ains.		PL=Pore Lining, M=Matrix	
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless other	rwise not	ed.)		_	for Problematic Hydric S	Soils':
Histosol			Polyvalue Be					luck (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su					luck (A10) (LRR S)	
	istic (A3)		Loamy Muck	-		R O)		ed Vertic (F18) (outside N	
	en Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F19)	
	d Layers (A5)		Depleted Ma					lous Bright Loamy Soils (F	-20)
	Bodies (A6) (LRR P		Redox Dark	`	,			A 153B)	
	ucky Mineral (A7) (Ll		Depleted Dar					arent Material (TF2)	
	resence (A8) (LRR L))	Redox Depre		8)			hallow Dark Surface (TF12 Explain in Remarks)	2)
	uck (A9) (LRR P, T) d Below Dark Surfac	ο (Δ11)	Marl (F10) (L Depleted Ocl		/MI PA 1	51)		Explain in Remarks)	
	ark Surface (A12)		Iron-Mangan				T) ³ Indic	ators of hydrophytic veget	ation and
	rairie Redox (A16) (I	MLRA 150A)						and hydrology must be pr	
	/lucky Mineral (S1) (Delta Ochric			, -,		ess disturbed or problemat	
	Gleyed Matrix (S4)	-,-,	Reduced Ver			0A, 150B)		·····	
	Redox (S5)		Piedmont Flo				9A)		
	Matrix (S6)						A 149A, 153C,	153D)	
Dark Su	rface (S7) (LRR P, S	S, T, U)							
Restrictive	Layer (if observed)								
Туре:									
Depth (in	ches):						Hydric Soil	Present?Yes 🖌	No
Remarks:	,						-		
	ua dua ta ini	undation	, budria aail		umad				
NO PIL O	ug due to inu	indation	; nyane son	s assi	imea.				

Project/Site: Port of Little Roc	k	City/County: Pulaski County Sampling Date: 2023-03-					
Applicant/Owner: Port of Little	Sampling Point: T4-01						
nvestigator(s): Jimmy Rogers S33 T1N R11W							
Landform (hillslope, terrace, etc.):	Flat	Local	relief (concave, convex,	_{none):} Undulati	ng Slope (%): 2		
Subregion (LRR or MLRA): P 13					Datum: WGS 84		
Soil Map Unit Name: No - Norw	vood silty clay loa	m		NWI classifica			
Are climatic / hydrologic condition			/esNo				
Are Vegetation, Soil							
Are Vegetation, Soil				explain any answe			
SUMMARY OF FINDINGS					·		
Hydrophytic Vegetation Present	? Yes	No 🖌					
Hydric Soil Present?	Yes	No 🖌	Is the Sampled Area	N	No		
Wetland Hydrology Present?		No 🖌	within a Wetland?	Yes			
Agricultural field.							
Wetland Hydrology Indicators				Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of		k all that apply)		Surface Soil			
Surface Water (A1)		uatic Fauna (B13)			jetated Concave Surface (B8)		
High Water Table (A2)		rl Deposits (B15) (LR	R U)	Drainage Pat			
Saturation (A3)		drogen Sulfide Odor (Moss Trim Li			
Water Marks (B1)	Oxi	idized Rhizospheres a	along Living Roots (C3)	Dry-Season	Nater Table (C2)		
Sediment Deposits (B2)		esence of Reduced Irc	. ,	Crayfish Burr	rows (C8)		
Drift Deposits (B3)		cent Iron Reduction in	Tilled Soils (C6)		sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		in Muck Surface (C7)			· · /		
Iron Deposits (B5)		ner (Explain in Remarl	KS)	Shallow Aqui			
Water-Stained Leaves (B9)	•••				noss (D8) (LRR T, U)		
Field Observations:				<u> </u>			
Surface Water Present?	Yes No 🔽	Depth (inches):					
Water Table Present?	Yes No 🔽	Depth (inches):					
	res No 🖌	Depth (inches):	Wetland H	lydrology Presen	t? Yes No 🖌		
(includes capillary fringe) Describe Recorded Data (stream	n gauge, monitoring v	well, aerial photos, pre	evious inspections), if ava	ilable:			
-							
Remarks:							

-	-	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft	<u>r</u>)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species	
1					That Are OBL, FACW, or FAC: 1	(A)
2					Total Number of Dominant	
3					Species Across All Strata: 2	(B)
4						. ,
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 50	(A/B)
6						(708)
7					Prevalence Index worksheet:	
8.					Total % Cover of: Multiply by:	_
·			= Total Cov		OBL species 0 x 1 = 0	_
	50% of total cover:				FACW species 0 x 2 = 0	_
Sapling/Shrub Stratum (Plot size		207001		·	FAC species <u>45</u> x 3 = <u>135</u>	_
					FACU species <u>55</u> x 4 = <u>220</u>	_
1					UPL species $0 \times 5 = 0$	_
2					Column Totals: <u>100</u> (A) <u>355</u>	(B)
3						_ 、 /
4					Prevalence Index = $B/A = 3.55$	_
5					Hydrophytic Vegetation Indicators:	
6					1 - Rapid Test for Hydrophytic Vegetation	
7					2 - Dominance Test is >50%	
8					\square 3 - Prevalence Index is $\leq 3.0^1$	
		:	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explai	in)
	50% of total cover:	20% of	total cover	:		<i>,</i>
Herb Stratum (Plot size: 15 ft	<u>r)</u>				¹ Indicators of hydric soil and wetland hydrology n	nust
1. Lolium perenne		55	~	FACU	be present, unless disturbed or problematic.	nuot
2. Rumex crispus		25	~	FAC	Definitions of Four Vegetation Strata:	
3. Ranunculus sardous		20		FAC	The subscription of the state o	
4. Lamium purpureum		3			Tree – Woody plants, excluding vines, 3 in. (7.6 more in diameter at breast height (DBH), regardle	
5 Andropogon virginicus				FAC	height.	000 01
6					Contine (Charthe Mandu plants availating vines	1
7					Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8					Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.	rdless
9						
10					Woody vine – All woody vines greater than 3.28	ft in
11					height.	
12		100%				
	54 5		= Total Cov			
	50% of total cover: 51.5	20% of	total cover	20.6		
Woody Vine Stratum (Plot size:	<u>30 ft r</u>)					
1						
2						
3						
4						
5					Hydrophytic	
		:	= Total Cov	/er	Vegetation	
	50% of total cover:	20% of	total cover	:	Present? Yes No 🖌	
Remarks: (If observed, list mor	phological adaptations belo	w).				
		,				

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the absence of	indicators.)	
Depth	Matrix			K Features	<u>s</u>	. 2			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	l ype	Loc ²	<u>Texture</u>	Remarks	
0 - 16	7.5YR 3/3	100					Silty Clay		
				. <u> </u>					
-									
-									
-									
$\frac{1}{1}$ Type: C=C	oncentration, D=Dep	olotion PM-E	Aducad Matrix MS	-Maskod	Sand Gr	aine	² Location: Pl	L=Pore Lining, M=Matr	iv.
	ndicators: (Applic					airi5.		r Problematic Hydric	
Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast Pr Sandy M Sandy G Sandy R	bipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) Bodies (A6) (LRR P cky Mineral (A7) (LI esence (A8) (LRR L ck (A9) (LRR P, T) I Below Dark Surfac irk Surface (A12) rairie Redox (A16) (I lucky Mineral (S1) (eleyed Matrix (S4) edox (S5)	RR P, T, U) J) ce (A11) MLRA 150A)	Delta Ochric (Reduced Vert Piedmont Flor	rface (S9) / Mineral (d Matrix (I rix (F3) Surface (F k Surface ssions (F8 RR U) pric (F11) ese Masse ce (F13) ((F17) (ML tic (F18) (odplain So	(LRR S, (F1) (LRF F2) 6) (F7) 3) (MLRA 1 es (F12) (LRR P, T .RA 151) MLRA 15 oils (F19)	T, U) 2 O) LRR O, P, , U) 20A, 150B) (MLRA 14	2 cm Muc Reduced Piedmont Anomalou (MLRA Red Pare Very Sha Other (Ex T) ³ Indicato wetlan unless 9A)	ent Material (TF2) Ilow Dark Surface (TF cplain in Remarks) ors of hydrophytic vege nd hydrology must be p s disturbed or problema	(LRR P, S, T) (F20) 12) etation and resent,
=	Matrix (S6)	ст. II)	Anomalous B	right Loar	ny Soils (F20) (MLR	A 149A, 153C, 1	53D)	
	face (S7) (LRR P, S ayer (if observed)						1		
Type:		•							
	ches):						Hydric Soil Pr	resent? Yes	No 🖌
Remarks:									· ···· <u></u>

Project/Site: Port of Little Rock	City/County: Pulask	i County	Sampling Date: 2023-03-07
Applicant/Owner: Port of Little Rock		State: Arkansas	
Investigator(s): Jimmy Rogers			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave	, convex, none): Concave	Slope (%): 1
Subregion (LRR or MLRA): P 133B Lat: 34		. ,	Datum: WGS 84
Soil Map Unit Name: <u>No - Norwood silty clay loam</u>		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time o	fvear? Yes 🖌 No		
Are Vegetation, Soil, or Hydrology significal			
Are Vegetation, Soil, or Hydrology attraction Are Vegetation, Soil, or Hydrology naturally	-	needed, explain any answer	
SUMMARY OF FINDINGS – Attach site map show			
Hydrophytic Vegetation Present? Yes <u></u> No	- Is the Sample		
Hydric Soil Present? Yes 🖌 No	- within a Wetl		No
Wetland Hydrology Present? Yes <u>Ves</u> No <u>Present</u>			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	•	Surface Soil	
Surface Water (A1)	,		etated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Marl Deposits (└── Drainage Pat	
	spheres along Living Roc	—	Water Table (C2)
	duced Iron (C4)	Crayfish Burr	
	duction in Tilled Soils (C6	= .	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	ace (C7)	Geomorphic	Position (D2)
Iron Deposits (B5)	n Remarks)	Shallow Aqui	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	, ,
Water-Stained Leaves (B9) Field Observations:		C Spnagnum m	oss (D8) (LRR T, U)
Surface Water Present? Yes <u>V</u> No <u>Depth</u> (incl	nes) [.] 2-4		
Water Table Present? Yes <u>No</u> Depth (incl			
Saturation Present? Yes No V Depth (incl		Vetland Hydrology Presen	t?Yes 🖌 No
(includes capillary fringe)	·		
Describe Recorded Data (stream gauge, monitoring weil, aenai pr	iolos, previous inspectior	ns), il avallable.	
Remarks:			

Sampling Point: T4	4-02
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00 ft		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r) 1.)	% Cover			Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2 3				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
4 5			·	Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				$\begin{array}{c c} \hline Total \% Cover of: \\ \hline OBL species \\ 10 \\ \hline x 1 = \\ 10 \\ \hline \end{array}$
	:	Total Co	ver	
50% of total cover:	20% of	total cove	r:	FACW species0 $x 2 = 0$ FAC species60 $x 3 = 180$
Sapling/Shrub Stratum (Plot size: 30 ft r)				
1				FACU species 0 $x 4 = 0$
2				
3				Column Totals: <u>70</u> (A) <u>190</u> (B)
4				Prevalence Index = $B/A = 2.71$
5				Hydrophytic Vegetation Indicators:
6				☐ 1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^1$
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	r:	
Herb Stratum (Plot size: 20 ft r) 1. Rumex crispus	60	~	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Juncus effusus	10		OBL	Definitions of Four Vegetation Strata:
3. Ranunculus sp.	5			
4. unidentified grass	5			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
6			·	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7 8				Herb – All herbaceous (non-woody) plants, regardless
9 10				of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.	80% =	= Total Co	ver	
50% of total cover: 40.0				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)	2070.01			
1				
2				
3				
4				
5				Hydrophytic
	=			Vegetation Present? Yes <u>V</u> No
50% of total cover:		total cove	r:	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	cription: (Describe	to the depth	needed to docum	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
-								
						· ·		
						<u> </u>		
-								
-								
_								
						· ·		
-								
	oncentration, D=De					ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless other	wise not	ed.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be					luck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					luck (A10) (LRR S)
	istic (A3)		Loamy Mucky			R O)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat					llous Bright Loamy Soils (F20)
-	Bodies (A6) (LRR F		Redox Dark S	`	,			RA 153B)
	ucky Mineral (A7) (L		Depleted Dar					arent Material (TF2)
	esence (A8) (LRR I	(ר			8)			hallow Dark Surface (TF12)
	uck (A9) (LRR P, T)	0 (111)	Marl (F10) (L			E4)	Uther (Explain in Remarks)
	d Below Dark Surfac ark Surface (A12)	Je (ATT)	Depleted Oct				r) ³ India	ators of hydrophytic vegetation and
	rairie Redox (A16) (MI RA 150A)						and hydrology must be present,
	/ucky Mineral (S1) (Delta Ochric			, 0)		ess disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver			0A 150B)	unic	is a bialarbed of problematic.
	Redox (S5)		Piedmont Flo				Α)	
	I Matrix (S6)						A 149A, 153C	. 153D)
	rface (S7) (LRR P,	S, T, U)		0	J (-/ (- ,	
	Layer (if observed)	-						
Type:								
	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:								
			I					
NO PIT O	ug due to ini	undation	; nyaric soli	s assi	imea.			

Project/Site: Port of Little Rock			City/	County: Pulas	ki County		Sampling Date	2023-03-07
-	Port of Little Rock City/County: Pulaski County Sampling Date: 2023-03-0 oplicant/Owner: Port of Little Rock State: Arkansas Sampling Point: T4-03							
nvestigator(s): Jimmy Rogers Section, Township, Range: S33 T1N R11W								
Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Undulating Slope (%): 2								ope (%): 2
Subregion (LRR or MLRA): P 133B Lat: 34.67005 Long: -92.18585 Datum: WGS &								• • • •
Soil Map Unit Name: No - Norwo	od silty clay loa	m				NWI classifica		
Are climatic / hydrologic conditions of			e of year?	Yes 🖌 No	(If			
Are Vegetation, Soil								✓ No
Are Vegetation, Soil						lain any answe		
SUMMARY OF FINDINGS -						-	,	
Hydrophytic Vegetation Present?	Yes	No	~					
Hydric Soil Present?	Yes	No	~	Is the Samp		Vee		
Wetland Hydrology Present?	Yes			within a Wet	land?	Yes	No	—
Agricultural field.								
Wetland Hydrology Indicators:					S	econdary Indica	tors (minimum)	of two required)
Primary Indicators (minimum of on	e is required: chec!	k all that a	apply)		<u>с</u>	Surface Soil		<u>or two requiredy</u>
Surface Water (A1)					E	-		e Surface (B8)
Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10)							0 00.1000 (20)	
$\Box \text{ Saturation (A3)} \qquad \Box \text{ Hydrogen Sulfide Odor (C1)} \qquad \Box \text{ Moss Trim Lines (B16)}$								
Water Marks (B1)	🛄 Oxi	dized Rhi	izospheres	along Living Ro	ots (C3)	Dry-Season	Water Table (C2	2)
Sediment Deposits (B2)			Reduced Ire	. ,	Ļ	Crayfish Burr	rows (C8)	
Drift Deposits (B3)				n Tilled Soils (C	6) <u> </u>	-	sible on Aerial I	magery (C9)
Algal Mat or Crust (B4)			Surface (C7)			Geomorphic	()	
Iron Deposits (B5)		ier (Expla	ain in Remar	rks)		Shallow Aqui		
Water-Stained Leaves (B9)	lagery (D7)				F	=	noss (D8) (LRR	т. U)
Field Observations:						1 - 3 -	(-)(, -,
Surface Water Present? Ye	es No 🔽	Depth (i	inches):					
Water Table Present? Ye	es No 🔽	Depth (i	inches):					
Saturation Present? Ye (includes capillary fringe)	es No 🔽	Depth (i	inches):		Wetland Hyd	drology Presen	t? Yes	No
Describe Recorded Data (stream g	gauge, monitoring v	vell, aeria	I photos, pr	revious inspectio	ons), if availa	ble:		
Remarks:								

		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
1 2				、,
3.				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
4				Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: 50 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species 0 x 1 = 0
		= Total Cov		FACW species $0 \times 2 = 0$
50% of total cover:	20% 01	total cover		FAC species 35 x 3 = 105
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species $60 \times 4 = 240$
1				UPL species 0 $x 5 = 0$
2				Column Totals: <u>95</u> (A) <u>345</u> (B)
3				
4				Prevalence Index = B/A = <u>3.63</u>
5	·			Hydrophytic Vegetation Indicators:
6	·			1 - Rapid Test for Hydrophytic Vegetation
7	·			2 - Dominance Test is >50%
8			FACU	$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$
		= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover		
Herb Stratum (Plot size: 15 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Lolium perenne	60	~	FACU	be present, unless disturbed or problematic.
2. Ranunculus sardous	20	~	FAC	Definitions of Four Vegetation Strata:
3. Rumex crispus	10		FAC	The Aller de stants and discussions. O is (7.0 sm) as
4. Andropogon virginicus	5		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Lamium purpureum	3			height.
6	·			Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	·			
	98%	= Total Cov	er	
50% of total cover: 49.0	20% of	total cover:	19.6	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Illudeenbutie
···		= Total Cov		Hydrophytic Vegetation
50% of total cover:				Present? Yes No 🖌
Remarks: (If observed, list morphological adaptations belo			·	
	Jvv).			

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature	S1			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 16	7.5YR 3/3	100					Silty Clay	
-					. <u>.</u>			
-								
-								
				·	·	·		
				·		·		
-				·				
-				·			<u> </u>	
	oncentration, D=Dep					ains.		PL=Pore Lining, M=Matrix.
	ndicators: (Applic	able to all L	RRs, unless other	wise not	ed.)			for Problematic Hydric Soils ³ :
Histosol (. ,		Polyvalue Be				· 🗖	luck (A9) (LRR O)
	hipedon (A2)		Thin Dark Su	•				Auck (A10) (LRR S)
Black His	n Sulfide (A4)		Loamy Muck	-		(0)		ed Vertic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat		(12)			alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	, T, U)	Redox Dark	. ,	-6)			RA 153B)
🔲 5 cm Mu	cky Mineral (A7) (L l	RR P, T, U)	Depleted Dar	k Surface	e (F7)			arent Material (TF2)
	esence (A8) (LRR L	J)	Redox Depre		8)			hallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	/ .	Marl (F10) (L				U Other ((Explain in Remarks)
	l Below Dark Surfac Irk Surface (A12)	e (A11)	Depleted Och				T) ³ India	ators of hydrophytic vegetation and
	airie Redox (A16) (I	MI RA 150A)						land hydrology must be present,
	lucky Mineral (S1) (Delta Ochric			, .,		ess disturbed or problematic.
	leyed Matrix (S4)		Reduced Ver			0A, 150B)		
	edox (S5)		Piedmont Flo					
	Matrix (S6)		Anomalous E	Bright Loa	my Soils (F20) (MLR	A 149A, 153C,	, 153D)
	face (S7) (LRR P, S	-						
	ayer (if observed).							
Type:	hoo);						Uvdria Cail	Dresent2 Vec No V
	:hes):						Hydric Soil	Present? Yes No V
Remarks:								

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-02-20							
Applicant/Owner: Port of Little Rock State: Arkansas Sampling Point: T4-04								
Investigator(s): Jimmy Rogers Section, Township, Range: S34 T1N R11W								
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope (%): 0							
Subregion (LRR or MLRA): P 133B Lat: 34.67	7 Long: -92.18169 Datum: WGS 84							
Soil Map Unit Name: RmA - Rilla silt Ioam, 0 to 1 percent slop								
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 pro-								
	g sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No							
Agricultural field.								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Sediment Deposits (B2)	13) Sparsely Vegetated Concave Surface (B8) 5) (LRR U) Drainage Patterns (B10) Odor (C1) Moss Trim Lines (B16) heres along Living Roots (C3) Dry-Season Water Table (C2) ced Iron (C4) Crayfish Burrows (C8) ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) e (C7) Geomorphic Position (D2) Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)							
Water Table Present? Yes No _ ✓ _ Depth (inches Saturation Present? Yes No _ ✓ _ Depth (inches (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photom)	s): Wetland Hydrology Present? Yes No							
Remarks:								

20 20			Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Dominant Species
1					That Are OBL, FACW, or FAC: 1 (A)
2					Total Number of Dominant
3					Species Across All Strata: <u>2</u> (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 50 (A/B)
6					,
7					Prevalence Index worksheet:
8					Total % Cover of: Multiply by:
			= Total Cov	er	OBL species $0 x 1 = 0$
50%	6 of total cover:	20% of	total cover:		FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 3					FAC species 55 x 3 = 165
1					FACU species <u>30</u> x 4 = <u>120</u>
2					UPL species $0 x 5 = 0$
					Column Totals: <u>85</u> (A) <u>285</u> (B)
3					
4					Prevalence Index = $B/A = 3.35$
5					Hydrophytic Vegetation Indicators:
6					1 - Rapid Test for Hydrophytic Vegetation
7					2 - Dominance Test is >50%
8					\square 3 - Prevalence Index is ≤3.0 ¹
			Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50%	6 of total cover:	20% of	total cover:		
Herb Stratum (Plot size: 15 x 15)				¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus		50	~	FAC	be present, unless disturbed or problematic.
2. Cynodon dactylon		25	~	FACU	Definitions of Four Vegetation Strata:
3. unidentified grass		5			
4 Geranium carolinianum		5			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Setaria pumila		5		FAC	height.
6. Solanum carolinense		3		FACU	
7. Erigeron canadensis		2		FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8					Herb – All herbaceous (non-woody) plants, regardless
9					of size, and woody plants less than 3.28 ft tall.
10					Woody vine – All woody vines greater than 3.28 ft in
11					height.
12		0.5%			
			Total Cov		
	6 of total cover: 47.5	20% of	total cover:	19	
Woody Vine Stratum (Plot size: 30	x 30)				
1					
2					
3					
4					
5					Hydrophytic
			= Total Cov		Vegetation
50%	6 of total cover:				Present? Yes No V
Remarks: (If observed, list morpholo					
		••).			

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the absence	of indicator	rs.)	
Depth	Matrix			K Features			- .		– ,	
<u>(inches)</u> 0 - 1	Color (moist) 5YR 4/3	<u>%</u> 100	Color (moist)	%	Type ¹	Loc 2	<u>Texture</u> Silt		Remarks	
1 - 18	5YR 5/4	100					Silt Loam			
				·	·	·				
-						. <u></u>				
-										
-										
-										
	oncentration, D=Dep					ains.			ning, M=Matrix	
	ndicators: (Applic	able to all Li			•				natic Hydric S	soils":
Histosol (A1) ipedon (A2)		Polyvalue Bel					1uck (A9) (Ll 1uck (A10) (l		
Black His			Loamy Mucky							/LRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			- /				(LRR P, S, T)
	Layers (A5)		Depleted Mat	rix (F3)				-	Loamy Soils (F	- 20)
	Bodies (A6) (LRR P		Redox Dark S	•	,			RA 153B)		
	cky Mineral (A7) (LF esence (A8) (LRR U		Depleted Dar		. ,			arent Materia	al (1F2) Surface (TF1)	2)
	ck (A9) (LRR P, T)	,	Marl (F10) (L	•	5)			Explain in R	•	-)
	Below Dark Surface	e (A11)	Depleted Och		(MLRA 1	51)			,	
	rk Surface (A12)		Iron-Mangane					-	rophytic veget	
	airie Redox (A16) (N					, U)		•	gy must be pr	
	lucky Mineral (S1) (L leyed Matrix (S4)	.RR 0, 5)	Delta Ochric (0A 150B)		ess disturbed	d or problemat	IC.
	edox (S5)		Piedmont Flo							
	Matrix (S6)						A 149A, 153C,	, 153D)		
	face (S7) (LRR P, S	-					-			
	ayer (if observed):									
Type:								-		
	ches):						Hydric Soil	Present?	Yes	No 🔽
Remarks:										

Project/Site: Port of Little Ro	ock	City/C	_{County:} Pulaski County	У	Sampling Date: 2023-03-01		
Applicant/Owner: Port of Litt			-		Sampling Point: T4-05		
Investigator(s): Jimmy Roge		Section					
Investigator(s): Jimmy Rogers Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 0							
Subregion (LRR or MLRA): P 1	,	Lat: 34.6699			Datum: WGS 84		
Soil Map Unit Name: RmA - R			Long	NWI classifica			
Are climatic / hydrologic condition	ons on the site typi	cal for this time of year? Y	′es No ((If no, explain in R	emarks.)		
Are Vegetation 🔽 , Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? YesNo		
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If needed, e	explain any answe	rs in Remarks.)		
-					, important features, etc.		
Hydrophytic Vegetation Prese	ent? Yes	No 🖌					
Hydric Soil Present?	Yes	No <u><</u> No <u><</u>	Is the Sampled Area				
Wetland Hydrology Present?	Yes	No 🖌	within a Wetland?	Yes	No		
Remarks:							
Agricultural field.							
HYDROLOGY							
Wetland Hydrology Indicato					tors (minimum of two required)		
Primary Indicators (minimum o	of one is required;			Surface Soil			
Surface Water (A1)	⊢	Aquatic Fauna (B13)			etated 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)							
Saturation (A3)	Ē	Oxidized Rhizospheres a	,		Water Table (C2)		
Sediment Deposits (B2)		Presence of Reduced Iro		Crayfish Burr			
Drift Deposits (B3)		Recent Iron Reduction in			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Thin Muck Surface (C7)		Geomorphic			
Iron Deposits (B5)		Other (Explain in Remark	(S)	Shallow Aqui			
Inundation Visible on Aer	••••			FAC-Neutral	· ,		
Water-Stained Leaves (B	9)			Sphagnum m	noss (D8) (LRR T, U)		
Field Observations:	Mar No	· Darth (inches)					
Surface Water Present?		Depth (inches):					
Water Table Present? Saturation Present?		 Depth (inches): Depth (inches): 		lydrology Presen	t?Yes No 🖌		
(includes capillary fringe)							
Describe Recorded Data (stre	am gauge, monito	ring well, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:							

Sampling Point: T4-05

00 ft -		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r) 1.)	<u>% Cover</u>			Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2 3				Total Number of Dominant Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5 6				That Are OBL, FACW, or FAC: 0 (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
·	;		ver	OBL species 0 x 1 = 0
50% of total cover:				FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $0 x 3 = 0$
1				FACU species 93 x 4 = 372
2				UPL species $0 x 5 = 0$
3				Column Totals: <u>93</u> (A) <u>372</u> (B)
4				Prevalence Index = B/A = 4.0
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				$\boxed{\square}$ 3 - Prevalence Index is $\leq 3.0^{1}$
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 20 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Lolium perenne	90	~	FACU	be present, unless disturbed or problematic.
2. Glycine max	5			Definitions of Four Vegetation Strata:
3. Cardamine hirsuta	3		FACU	
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6 7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9 10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	98% =	= Total Co	ver	
50% of total cover: 49.0	20% of	total cover	_{":} 19.6	
Woody Vine Stratum (Plot size: 30 ft r)				
1,				
2				
3				
4				
5				
5		= Total Co		Hydrophytic Vegetation
50% of total cover:				Present? Yes No V
			·	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	the absence of	of indicators.)
Depth	Matrix			x Feature			_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 18	7.5YR 5/3	100					Silt Loam	
-								
							·	
-								
-					· . <u> </u>			
-								
·							·	
					·	·	·	
-								
¹ Type: C=Co	ncentration, D=De	oletion, RM=F	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applie	able to all L	RRs, unless othe	rwise not	ed.)			for Problematic Hydric Soils ³ :
Histosol (A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S. T. L	J) 1 cm M	uck (A9) (LRR O)
	ipedon (A2)		Thin Dark Su				· _	uck (A10) (LRR S)
Black His			Loamy Muck					ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	-		,		ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma					lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F	P. T. U)	Redox Dark	· · ·	-6)			A 153B)
	cky Mineral (A7) (L		Depleted Da	•	,			rent Material (TF2)
	esence (A8) (LRR I		Redox Depre	essions (F	8)			nallow Dark Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10) (L	•	,			Explain in Remarks)
	Below Dark Surfac	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
Thick Da	rk Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	T) ³ Indica	ators of hydrophytic vegetation and
Coast Pr	airie Redox (A16) (MLRA 150A)	Umbric Surfa	ce (F13)	(LRR P, T	', U)	wetla	and hydrology must be present,
Sandy M	ucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (ML	RA 151)		unle	ss disturbed or problematic.
Sandy G	leyed Matrix (S4)		Reduced Ver	rtic (F18) ((MLRA 15	60A, 150B)		
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)	
Stripped	Matrix (S6)		Anomalous E	Bright Loa	my Soils (F20) (MLR	A 149A, 153C,	153D)
Dark Sur	face (S7) (LRR P, 3	S, T, U)						
Restrictive L	ayer (if observed).	:						
Туре:								
Depth (inc	hes):						Hydric Soil I	Present?Yes No 🖌
Remarks:	/						,	
Remarks.								

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-03-01					
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T4-06					
Investigator(s): Jimmy Rogers	Section, Township, Range: S34 T1N R11W					
	Local relief (concave, convex, none): Convex Slope (%): 0-15					
Subregion (LRR or MLRA): P 133B Lat: 34.60	· · · · · · · · · · · · · · · · · · ·					
Soil Map Unit Name: Ko - Keo silt loam, 0 to 1 percent slopes						
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 significantly	y disturbed? Are "Normal Circumstances" present? Yes <u>/</u> No					
Are Vegetation, Soil, or Hydrology naturally pr						
	g sampling point locations, transects, important features, etc.					
	J sampling point locations, transects, important leatures, 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 _						
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)						
High Water Table (A2)						
Saturation (A3)						
	pheres along Living Roots (C3) Dry-Season Water Table (C2)					
Sediment Deposits (B2)						
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)					
$\square \text{ Iron Deposits (B5)} \qquad \square \text{ Other (Explain in F})$						
Inundation Visible on Aerial Imagery (B7)	Remarks) FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)					
Field Observations:						
Surface Water Present? Yes No Depth (inches	3):					
Water Table Present? Yes No 🖌 Depth (inches						
Saturation Present? Yes <u>No</u> Depth (inches (includes capillary fringe)	s): Wetland Hydrology Present? Yes No					

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

Remarks:

15 ft r			t Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>15 ft r</u>)	-	Species		Number of Dominant Species
1. Celtis laevigata	15		FACW	That Are OBL, FACW, or FAC: <u>6</u> (A)
2. Ulmus americana	10		FAC	Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>75</u> (A/B)
6				Descelares Index workshoet
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	25%	= Total Co	over	OBL species $\frac{0}{25}$ x 1 = $\frac{0}{50}$
50% of total cover: <u>12.5</u>	20% of	total cove	er: <u>5.0</u>	FACW species $\frac{25}{50}$ x 2 = $\frac{50}{150}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species $\frac{50}{15}$ x 3 = $\frac{150}{20}$
1. Ligustrum sinense	15	~	FAC	FACU species 15 x 4 = 60
2. Celtis laevigata	10	~	FACW	UPL species 0 x 5 = 0
3.				Column Totals: <u>90</u> (A) <u>260</u> (B)
4				Prevalence Index = $B/A = 2.89$
5.				
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8		= Total Co		\square 3 - Prevalence Index is $\leq 3.0^1$
				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>12.5</u>	20% of	total cove	er: <u>3.0</u>	
Herb Stratum (Plot size: 15 ft r)	15		F AO	¹ Indicators of hydric soil and wetland hydrology must
1. Osmorhiza longistylis		<i>v</i>	FAC	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
	15%	= Total Co	over	
50% of total cover: 7.5	20% of	total cove	er: 3.0	
Woody Vine Stratum (Plot size: 15 ft r)				
1 Lonicera japonica	10	~	FACU	
2 Toxicodendron radicans	10	~	FAC	
3. Rosa multiflora	5	~	FACU	
5	25%	Tatal Ca		Hydrophytic Vegetation
50% of tastal array 12 5		= Total Control Total Contr		Present? Yes <u>V</u> No
50% of total cover: <u>12.5</u>		total cove	er: <u>0.0</u>	
Remarks: (If observed, list morphological adaptations be	ow).			

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the absence o	of indicators.)		
Depth	Matrix		Redo	x Features	3					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	F	Remarks	
0 - 2	7.5YR 2.5/2	100					Silt			
2 - 17	7.5R 5/4	100					Sand			
						·				<u> </u>
-										
-										
-										
1 Type: C=Cc	oncentration, D=Dep	letion RM=R	educed Matrix MS	S=Masked	Sand Gr	ains	² Location:	PL=Pore Lining	n M=Matrix	
	ndicators: (Applic							or Problemati		s³:
Histosol ((A1)		Polyvalue Be	low Surfac	ce (S8) (L	.RR S. T. U	J) 1 cm Mi	uck (A9) (LRR	0)	
	ipedon (A2)		Thin Dark Su					uck (A10) (LRF		
Black His			Loamy Muck	• •	•			d Vertic (F18)	•	A 150A,B)
	n Sulfide (A4)		Loamy Gleye		• • •	,		nt Floodplain S		
	Layers (A5)		Depleted Mat		,			ous Bright Loa		
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)			A 153B)		
🔲 5 cm Mu	cky Mineral (A7) (L	RR P, T, U)	Depleted Dar	k Surface	(F7)		Red Par	rent Material (1	TF2)	
Muck Pre	esence (A8) (LRR l	J)	Redox Depre	ssions (F8	8)		U Very Sh	allow Dark Su	rface (TF12)	
	ck (A9) (LRR P, T)		Marl (F10) (L	RR U)			U Other (E	Explain in Rem	arks)	
	Below Dark Surfac	e (A11)	Depleted Och				2			
	rk Surface (A12)		Iron-Mangan					itors of hydropl		
	airie Redox (A16) (', U)		and hydrology		nt,
	lucky Mineral (S1) (LRR 0, S)						ss disturbed or	problematic.	
	leyed Matrix (S4)		Reduced Ver							
	edox (S5) Matrix (S6)						A 149A, 153C,	152D)		
	face (S7) (LRR P, S	зти)		ngni Luan			A 143A, 1330,	1550)		
	ayer (if observed)	-								
Type:	,									
	ches):						Hydric Soil F	Present? Ye	esN	o 🗸
Remarks:									<u> </u>	• <u> </u>
Remarks.										

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-03-01						
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T4-07						
Investigator(s): Jimmy Rogers	_ Section, Township, Range: S34 TIN R11W						
	Local relief (concave, convex, none): Concave Slope (%): 1						
Subregion (LRR or MLRA): P 133B Lat: 34.60	6998 Long: -92.1742 Datum: WGS 84						
Soil Map Unit Name: Ko - Keo silt loam, 0 to 1 percent slopes	s, rarely flooded						
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 significantly	y disturbed? Are "Normal Circumstances" present? YesNo						
Are Vegetation, Soil, or Hydrology naturally pr							
	g sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes <u>Ves</u> No							
Hydric Soil Present? Yes <u>✓</u> No	within a Wetland? Yes 🗸 No						
Wetland Hydrology Present? Yes <u>V</u> No	·						
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)							
Surface Water (A1)							
High Water Table (A2)							
Saturation (A3)							
Water Marks (B1) Oxidized Rhizospl	heres along Living Roots (C3) 🔲 Dry-Season Water Table (C2)						
Sediment Deposits (B2)	iced Iron (C4)						
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4)	e (C7)						
Iron Deposits (B5)	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 <u>V</u> No Depth (inches	·						
Water Table Present? Yes No <u>v</u> Depth (inches	,						
Saturation Present? Yes <u>No</u> Depth (inchest (includes capillary fringe)	s): Wetland Hydrology Present? Yes <u>V</u> No						
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:						
Remarks:							
1							

		Dominant		Dominance Test worksheet:			
<u>Tree Stratum</u> (Plot size: <u>20 ft r</u>)		Species?	Status FAC	Number of Dominant Species			
1. Ulmus americana	<u>10</u> 5	<u>~</u>	FAC	That Are OBL, FACW, or FAC: _4(A)			
2. Celtis laevigata				Total Number of Dominant			
3				Species Across All Strata: <u>4</u> (B)			
4				Percent of Dominant Species			
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)			
6				Prevalence Index worksheet:			
7	·			Total % Cover of: Multiply by:			
8	450/			$\begin{array}{c} \hline \hline \\ OBL species \\ \hline \\ 0 \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ 0 \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ 0 \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ 0 \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ 0 \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \hline \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ 1 = \\ \end{array} \\ \begin{array}{c} \hline \\ x \\ x \\ \end{array} \\ \end{array} \\ \begin{array}{c} \hline \\ x \\$			
7.5		= Total Cov		FACW species $10 x 2 = 20$			
50% of total cover: 7.5	20% of	total cover:	3.0	FAC species 15 x 3 = 45			
Sapling/Shrub Stratum (Plot size: 20 ft r)	-			FACU species $0 \times 4 = 0$			
1. Celtis laevigata	5	<u> </u>	FACW	UPL species 0 $x 5 = 0$			
2. Ulmus americana		 ✓ 	FAC	Column Totals: 25 (A) 65 (B)			
3							
4				Prevalence Index = $B/A = 2.6$			
5				Hydrophytic Vegetation Indicators:			
6	·			1 - Rapid Test for Hydrophytic Vegetation			
7				☑ 2 - Dominance Test is >50%			
8				\square 3 - Prevalence Index is $\leq 3.0^1$			
	<u>10%</u> :	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)			
50% of total cover: 5.0	20% of	total cover:	2.0				
Herb Stratum (Plot size: 20 ft r)				¹ Indicators of hydric soil and wetland hydrology must			
1				be present, unless disturbed or problematic.			
2				Definitions of Four Vegetation Strata:			
3				Tree Meedu dente evolution vince 2 in (7.0 cm) er			
4				 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 			
5				height.			
6				Sapling/Shrub – Woody plants, excluding vines, less			
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
8							
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
10							
11				Woody vine – All woody vines greater than 3.28 ft in height.			
				neight.			
12		= Total Cov					
50% of total cover:							
50% of total cover:	20% 01	total cover.	·				
Woody Vine Stratum (Plot size: 20 ft r)							
1							
2							
3							
4							
5				Hydrophytic			
		= Total Cov		Vegetation Present? Yes <u>V</u> No			
50% of total cover:	20% of	total cover:					
Remarks: (If observed, list morphological adaptations belo	ow).						

Profile Desc	cription: (Describe	to the dept	h needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
-								
						<u> </u>		
-								
-								
_				·				
						<u> </u>		
-				·	<u></u>			
	oncentration, D=De					ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all I	RRs, unless other	wise not	ed.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be					luck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					luck (A10) (LRR S)
	istic (A3)		Loamy Muck	-		R O)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat					lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark	`	,			RA 153B)
	ucky Mineral (A7) (L		Depleted Dar					arent Material (TF2)
	resence (A8) (LRR		Redox Depre		8)			hallow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (L			E4)	Uther (Explain in Remarks)
	d Below Dark Surfa ark Surface (A12)	Le (ATT)	Depleted Och				T) ³ Indic	ators of hydrophytic vegetation and
	rairie Redox (A16)	MI RA 150A						and hydrology must be present,
	Aucky Mineral (S1)		Delta Ochric			, 0)		ess disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver			0A. 150B)	diffe	
	Redox (S5)		Piedmont Flo				9A)	
	Matrix (S6)						A 149A, 153C,	153D)
	Inface (S7) (LRR P,	S. T. U)				, (, ,	
	Layer (if observed)	-						
Type:								
	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:								·····
No pit d	ug due to in	undation	n; hydric soll	s assi	umed.			

Project/Site: Port of Little Rock	City/County: Pulaski County Sampling Date: 2023-03-0				
Applicant/Owner: Port of Little Rock	State: Arkansas Sampling Point: T4-08				
Investigator(s): Jimmy Rogers	_ Section, Township, Range: S34 T1N R11W				
	Local relief (concave, convex, none): Convex Slope (%): 0-15				
Subregion (LRR or MLRA): P 133B Lat: 34.					
Soil Map Unit Name: Ko - Keo silt Ioam, 0 to 1 percent slope					
Are climatic / hydrologic conditions on the site typical for this time of					
Are Vegetation, Soil, or Hydrology significar					
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? Yes V Hydric Soil Present? Yes No	— Is the Sampled Area				
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	within a Wetland? Yes No				
Remarks:	<u> </u>				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that appl					
Surface Water (A1)					
High Water Table (A2)					
Saturation (A3)					
	pheres along Living Roots (C3) Dry-Season Water Table (C2)				
Sediment Deposits (B2)					
Drift Deposits (B3)	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	ice (C7)				
Iron Deposits (B5)	n 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 (inch	es):				
Water Table Present? Yes No 🖌 Depth (inch	es):				
	es): Wetland Hydrology Present? Yes No				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph					

Remarks:

1E ft	M		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 15 ft	r)		Species?		Number of Dominant Species
1. Ulmus americana		10	<u> </u>	FAC	That Are OBL, FACW, or FAC: 4 (A)
		5	~	FACW	Total Number of Dominant
3				·	Species Across All Strata: 6 (B)
4					Percent of Dominant Species
5				. <u> </u>	That Are OBL, FACW, or FAC: 66.7 (A/B)
6					
7					Prevalence Index worksheet:
8					Total % Cover of: Multiply by:
		15% =	= Total Co	ver	OBL species 0 $x = 0$
	50% of total cover: 7.5	20% of	total cover	r: 3.0	FACW species <u>5</u> x 2 = <u>10</u>
Sapling/Shrub Stratum (Plot siz					FAC species <u>35</u> x 3 = <u>105</u>
1. Ligustrum sinense		15	~	FAC	FACU species <u>45</u> x 4 = <u>180</u>
		10	~	FAC	UPL species $0 \times 5 = 0$
					Column Totals: <u>85</u> (A) <u>295</u> (B)
3					
4					Prevalence Index = B/A = <u>3.47</u>
5					
6					1 - Rapid Test for Hydrophytic Vegetation
7					☑ 2 - Dominance Test is >50%
8				. <u> </u>	$\boxed{1}$ 3 - Prevalence Index is $\leq 3.0^{1}$
		25% =	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
	50% of total cover: 12.5	20% of	total cover	_{r:} 5.0	
Herb Stratum (Plot size: 15 ft	r)				¹ Indicators of hydric soil and wetland hydrology must
1					be present, unless disturbed or problematic.
2					Definitions of Four Vegetation Strata:
					bennitons of Four Vegetation official
3					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4					more in diameter at breast height (DBH), regardless of height.
5					noight.
6				·	Sapling/Shrub – Woody plants, excluding vines, less
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				·	Herb – All herbaceous (non-woody) plants, regardless
9					of size, and woody plants less than 3.28 ft tall.
10					Woody vine – All woody vines greater than 3.28 ft in
11				. <u></u>	height.
12		0	~		
		0% =	= Total Co	ver	
	50% of total cover: 0	20% of	total cover	r: 0	
Woody Vine Stratum (Plot size:					
1 Rosa multiflora	/	30	~	FACU	
2 Lonicera japonica		10	~	FACU	
$_{3.}$ Rubus trivialis		5		FACU	
		<u> </u>		1400	
4				·	
5		450/		·	Hydrophytic
	•		= Total Co		Vegetation Present? Yes <u>Ves</u> No
	50% of total cover: 22.5	20% of	total cover	r: <u>9.0</u>	
Remarks: (If observed, list mor	phological adaptations belo	w).			

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the absence o	of indicators.)		
Depth	Matrix		Redo	x Features	3					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	F	Remarks	
0 - 2	7.5YR 2.5/2	100					Silt			
2 - 17	7.5R 5/4	100					Sand			
						·				<u> </u>
-										
-										
-										
1 Type: C=Cc	oncentration, D=Dep	letion RM=R	educed Matrix MS	S=Masked	Sand Gr	ains	² Location:	PL=Pore Lining	n M=Matrix	
	ndicators: (Applic							or Problemati		s³:
Histosol ((A1)		Polyvalue Be	low Surfac	ce (S8) (L	.RR S. T. U	J) 1 cm Mu	uck (A9) (LRR	0)	
	ipedon (A2)		Thin Dark Su					uck (A10) (LRF		
Black His			Loamy Muck	• •	•			d Vertic (F18)	•	A 150A,B)
	n Sulfide (A4)		Loamy Gleye		• • •	,		nt Floodplain S		
	Layers (A5)		Depleted Mat		,			ous Bright Loa		
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)			A 153B)		
🔲 5 cm Mu	cky Mineral (A7) (L	RR P, T, U)	Depleted Dar	k Surface	(F7)		Red Par	rent Material (1	TF2)	
Muck Pre	esence (A8) (LRR l	J)	Redox Depre	ssions (F8	8)		U Very Sh	allow Dark Su	rface (TF12)	
	ck (A9) (LRR P, T)		Marl (F10) (L	RR U)			U Other (E	Explain in Rem	larks)	
	Below Dark Surfac	e (A11)	Depleted Och				2			
	rk Surface (A12)		Iron-Mangan					itors of hydropl		
	airie Redox (A16) (', U)		and hydrology		nt,
	lucky Mineral (S1) (LRR 0, S)						ss disturbed or	problematic.	
	leyed Matrix (S4)		Reduced Ver							
	edox (S5) Matrix (S6)						A 149A, 153C,	152D)		
	face (S7) (LRR P, S	зти)		ngni Luan			A 143A, 1330,	1550)		
	ayer (if observed)	-								
Type:	,									
	ches):						Hydric Soil F	Present? Ye	esN	o 🗸
Remarks:									<u> </u>	• <u> </u>
Remarks.										

Project/Site: Port of Little Rock		City/County: Pulaski County Sampling Date: 2023-03						03-01	
Applicant/Owner: Port of Little Rock		State: Arkansas Sampling Point: T4-09							
			Se			4 T1N R11W			
Landform (hillslope, terrace, etc.): Flat			Loc	al relief (conca	ve. convex. r	_{ione):} None		Slope (%):	0
				•		92.17273		/ _	
Soil Map Unit Name: RmA - Rilla silt lo						NWI classifica			
Are climatic / hydrologic conditions on the				Yes 🖌 N	lo (I				
Are Vegetation, Soil, or Hy						Circumstances" p		es 🖌 No	
Are Vegetation, Soil, or Hy						kplain any answe			
SUMMARY OF FINDINGS - Atta									s, etc.
Liverante tic Verstetion Dresent?	Vee	- N-	~			·	-		
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes			Is the Sam	•				
Wetland Hydrology Present?	Yes			within a W	etland?	Yes	No	<u> </u>	
Remarks:									
Agricultural field.									
HYDROLOGY									
Wetland Hydrology Indicators:						Secondary Indica	tors (minimu	um of two reg	uired)
Primary Indicators (minimum of one is re	<u>quired; checl</u>	c all that	apply)			Surface Soil	Cracks (B6)	1	
Surface Water (A1)	🔲 Aqı	atic Fa	una (B13)		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		rl Depos	sits (B15) (L	.RR U)		Drainage Pat	terns (B10)		
Saturation (A3)		-	Sulfide Odo	. ,	•	Moss Trim Li	. ,		
Water Marks (B1)				s along Living F	Roots (C3)	Dry-Season		(C2)	
Sediment Deposits (B2)			f Reduced			Crayfish Burr	. ,		
Drift Deposits (B3)				in Tilled Soils	(C6)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)			Surface (C7	,		Geomorphic		<u>'</u>)	
Iron Deposits (B5)		еі (шхр	lain in Rem	arks)		Shallow Aqui			
Water-Stained Leaves (B9)	(67)					Sphagnum m	, ,	.RR T. U)	
Field Observations:								, -,	
Surface Water Present? Yes	No 🖌	Depth	(inches):						
Water Table Present? Yes	No 🔽	Depth	(inches):						
	No	Depth	(inches):		Wetland Hy	ydrology Presen	t? Yes	No	~
(includes capillary fringe) Describe Recorded Data (stream gauge,	monitoring v	vell aer	ial photos r	previous inspec	tions) if avail	able.			
			p		,,				
Remarks:									

		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2 3				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
6				()
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov		OBL species 0 $x = 0$
50% of total cover:	20% of	total cover	:	FACW species 0 $x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{20}{20}$ x 3 = $\frac{60}{244}$
1				FACU species $\underline{86}$ x 4 = $\underline{344}$
2				UPL species 0 x 5 = 0
3				Column Totals: <u>106</u> (A) <u>404</u> (B)
4				Prevalence Index = B/A = <u>3.81</u>
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\Box 3 - Prevalence Index is $\leq 3.0^1$
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 20 ft r) 1 Lolium perenne	80	~	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Ranunculus sardous	20		FAC	Definitions of Four Vegetation Strata:
3. Poa annua	5		FACU	
4 Cardamine hirsuta	1		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6 7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	100%			
E2 0		= Total Cov		
50% of total cover: <u>53.0</u>	20% of	total cover	<u> </u>	
Woody Vine Stratum (Plot size: <u>30 ft r</u>)				
1				
2				
3				
4				
5				Hydrophytic
	:	= Total Cov	/er	Vegetation Present? Yes No V
50% of total cover:	20% of	total cover	:	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	n the absence of	of indicators.)		
Depth	Matrix			x Feature						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	F	Remarks	
0 - 18	7.5YR 5/4	100					Silt Loam			
-										
						·				
-										
-										
						·				
-										
-										
	oncentration, D=Dep	pletion RM=6	Peduced Matrix M	S=Masker	1 Sand Gr	aine	² Location:	PL=Pore Lining	M=Matrix	
	Indicators: (Applic					unis.		for Problemati		ils ³ .
-						прети			-	
Histosol	oipedon (A2)		Polyvalue Be					uck (A9) (LRR uck (A10) (LRR		
Black Hi								ed Vertic (F18) (PA 150A P)
	n Sulfide (A4)		=	-		(0)		ont Floodplain S		
	Layers (A5)		Loamy Gleye		(FZ)			lous Bright Loar	• • •	
		. т ну		. ,	-6)			-	Thy Solis (F2	0)
-	Bodies (A6) (LRR F			•	,			A 153B)		
	cky Mineral (A7) (L		Depleted Da					rent Material (T		
	esence (A8) (LRR L))		•	8)			hallow Dark Sur	· · ·	
	ck (A9) (LRR P, T)		Marl (F10) (L				U Other (I	Explain in Rema	arks)	
	Below Dark Surfac	ce (A11)	Depleted Oc							
	ark Surface (A12)		Iron-Mangan				•	ators of hydroph		
	rairie Redox (A16) (r, U)		and hydrology r		
	lucky Mineral (S1) (LRR O, S)	Delta Ochric					ss disturbed or	problematic	
	leyed Matrix (S4)		Reduced Ver							
	edox (S5)		Piedmont Flo							
	Matrix (S6)		Anomalous E	Bright Loar	my Soils ((F20) (MLR	RA 149A, 153C,	153D)		
	rface (S7) (LRR P, \$									
Restrictive I	_ayer (if observed)	:								
Туре:										
Depth (ind	ches):						Hydric Soil	Present? Ye	s	No 🖌
Remarks:							-			

Project/Site: Port of Little Rock	City/County: Pula	ski County	Sampling Date: 2023-03-01		
Applicant/Owner: Port of Little Rock		State: Arkansas			
	Section, Township				
	Local relief (concav		ng Slope (%): 0-15		
Subregion (LRR or MLRA): P 133B		,	Datum: WGS 84		
Soil Map Unit Name: LEV - Levee		NWI classifica			
Are climatic / hydrologic conditions on the site typical for th	nis time of vear? Yes 🖌 N				
Are Vegetation, Soil, or Hydrology					
Are Vegetation, Soil, or Hydrology		If needed, explain any answe			
SUMMARY OF FINDINGS – Attach site map			·		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No Is the Sam No within a We		No		
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:			tors (minimum of two required)		
High Water Table (A2) Arr I Marl D Saturation (A3)	c Fauna (B13) eposits (B15) (LRR U) gen Sulfide Odor (C1)	Sparsely Veg Drainage Pa Moss Trim L	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16)		
	ed Rhizospheres along Living R		Dry-Season Water Table (C2) Crayfish Burrows (C8)		
	nce of Reduced Iron (C4)		· · · ·		
	t Iron Reduction in Tilled Soils (luck Surface (C7)		Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)		
	(Explain in Remarks)	Shallow Aqu	· · · ·		
Inundation Visible on Aerial Imagery (B7)	, , , , , , , , , , , , , , , , , , ,	FAC-Neutral			
Water-Stained Leaves (B9)		🔲 Sphagnum n	noss (D8) (LRR T, U)		
Field Observations:					
	epth (inches):				
	epth (inches):				
Saturation Present? Yes No _ Do	epth (inches):	Wetland Hydrology Preser	nt? Yes No 🖌		
Describe Recorded Data (stream gauge, monitoring well	, aerial photos, previous inspect	ions), if available:			
Remarks:					

1E ft	v		Dominant		Dominance Test worksheet:				
Tree Stratum (Plot size: <u>15 ft r</u>)			Species?	Status FAC	Number of Dominant Species				
1. Ulmus americana		20 5	~	FAC	That Are OBL, FACW, or FAC: 3 (A)				
2. Gleditsia triacanthos		5		FAC	Total Number of Dominant				
3. Quercus nigra				·	Species Across All Strata: <u>5</u> (B)				
4					Percent of Dominant Species				
5					That Are OBL, FACW, or FAC: <u>60</u> (A/B)				
6					Prevalence Index worksheet:				
7				·	Total % Cover of:Multiply by:				
8				·	$\begin{array}{c} \hline \hline \\ OBL species \\ \hline 0 \\ \hline \\ x 1 = \\ \hline \end{array}$				
			= Total Co		FACW species 0 $x^2 = 0$				
50% of total cover: <u>15.0</u>			total cove	r: <u>6.0</u>	FAC species 45 x 3 = 135				
Sapling/Shrub Stratum (Plot size: 15 ft r)				F AQ	FACU species 20 $x = 80$				
1. Quercus nigra		10	<u> </u>	FAC	UPL species 0 $x = 0$				
2. Ligustrum sinense		5	~	FAC	Column Totals: <u>65</u> (A) <u>215</u> (B)				
3									
4					Prevalence Index = $B/A = 3.31$				
5					Hydrophytic Vegetation Indicators:				
6				1 - Rapid Test for Hydrophytic Vegetation					
7				·	☑ 2 - Dominance Test is >50%				
8				·	\square 3 - Prevalence Index is $\leq 3.0^1$				
<u>15%</u> = Total Cover					Problematic Hydrophytic Vegetation ¹ (Explain)				
	50% of total cover: 7.5	20% of	total cove	r: <u>3.0</u>					
Herb Stratum (Plot size: 15 ft	<u>r</u>)				¹ Indicators of hydric soil and wetland hydrology must				
1				·	be present, unless disturbed or problematic.				
2				·	Definitions of Four Vegetation Strata:				
3				·	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or				
4			more in diameter at breast height (DBH), rega						
5					height.				
6					Sapling/Shrub – Woody plants, excluding vines, less				
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.				
8					Herb – All herbaceous (non-woody) plants, regardless				
9					of size, and woody plants less than 3.28 ft tall.				
10					Woody vine – All woody vines greater than 3.28 ft in				
11					height.				
12		0	~						
		0% =	= Total Co	ver					
	50% of total cover: 0	20% of	total cove	r: 0					
Woody Vine Stratum (Plot size:	15 ft r)								
_{1.} Lonicera japonica		15	~	FACU					
2. Rubus trivialis		5	~	FACU					
3		0							
4									
5					Hydrophytic				
		<u>20%</u> = Total Cover 20% of total cover: <u>4</u>			Vegetation Present? Yes <u>V</u> No				
	50% of total cover: 10								
Remarks: (If observed, list mor	phological adaptations below	w).							

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the	indicator	or confirm	the absence	of indicators.)				
Depth	Matrix		Redo	ox Feature	es							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks				
0 - 3	5YR 2.5/2	100					Silt					
3 - 18	5YR 4/4	100					Silty Clay					
	011(4)4	100					oncy oldy					
-												
						·						
-						·	·					
-												
_												
1						·	2					
	oncentration, D=Dep					rains.		PL=Pore Lining, M=Matrix.				
Hydric Soil	ndicators: (Applic	able to all L	RRs, unless othe	rwise not	ted.)		Indicators	for Problematic Hydric Soils ³ :				
Histosol	(A1)		Polyvalue Be	elow Surfa	ace (S8) (I	LRR S, T, U	л) <u>Ц</u> 1 ст М	luck (A9) (LRR O)				
Histic Ep	pipedon (A2)		Thin Dark Su	urface (S9) (LRR S,	T, U)	2 cm Muck (A10) (LRR S)					
Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRF	R O)	Reduced Vertic (F18) (outside MLRA 150A,B)					
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Piedmo	ont Floodplain Soils (F19) (LRR P, S, T)				
Stratified	I Layers (A5)		Depleted Ma	trix (F3)			📙 Anoma	lous Bright Loamy Soils (F20)				
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (I	F6)		(MLR	A 153B)				
	cky Mineral (A7) (L		Depleted Da	rk Surface	e (F7)			arent Material (TF2)				
	esence (A8) (LRR l		Redox Depr		. ,			hallow Dark Surface (TF12)				
	ck (A9) (LRR P, T)	,	Marl (F10) (I		- /			Explain in Remarks)				
	Below Dark Surfac	ce (A11)	Depleted Oc		(MLRA 1	51)	<u> </u>					
·	ark Surface (A12)	· · ·	Iron-Mangar				T) ³ Indica	ators of hydrophytic vegetation and				
	airie Redox (A16) (MLRA 150A)			• •	• • •		and hydrology must be present,				
	lucky Mineral (S1) (Delta Ochric					ess disturbed or problematic.				
	leyed Matrix (S4)		Reduced Ve									
	edox (S5)		Piedmont Flo									
	Matrix (S6)			•	• • •	•	A 149A, 153C,	153D)				
	face (S7) (LRR P, \$	s т II)		Singin Lou		(1 20) (11121)	, 1407, 1000,	10027				
	ayer (if observed)											
	ayer (il observed)	-										
Туре:								,				
Depth (ind	ches):						Hydric Soil	Present? Yes No _				
Remarks:												

Project/Site: Port of Little Rock		City/	County: Pula	Sampling Date: 2023-03-07							
Applicant/Owner: Port of Little Rock			City/County: Pulaski County State: Arkansas								
Investigator(s): Jimmy Rogers	Section, Township, Range: S33 T1N R11W										
Landform (hillslope, terrace, etc.): Flat			Local relief (concave, convex, none): Undulating Slope (%): 1								
Subregion (LRR or MLRA): P 133E			at: 34.66571								
Soil Map Unit Name: No - Norwoo	od silty clay loa	m				NWI classifica					
Are climatic / hydrologic conditions c			of year?	Yes_	o (If	no, explain in R	emarks.)				
Are Vegetation, Soil,								✓ No			
Are Vegetation, Soil,						plain any answei					
SUMMARY OF FINDINGS -											
Hydrophytic Vegetation Present?	No •	/									
Hydric Soil Present?	sent? Yes No Yes No		/	Is the Sam							
Wetland Hydrology Present?	Yes			within a We	etland?	Yes	No				
Agricultural field.											
Wetland Hydrology Indicators:						Secondary Indica	tors (minimum (of two required)			
Primary Indicators (minimum of one	e is required: chec	k all that ar	(vlaa		<u>-</u>	Surface Soil					
Surface Water (A1)		uatic Fauna			Sparsely Vegetated Concave Surface (B8)						
High Water Table (A2)		rl Deposits		RR U)	Drainage Patterns (B10)						
Saturation (A3)		, drogen Sul			Moss Trim Lines (B16)						
Water Marks (B1)	L Oxi	idized Rhiz	ospheres	along Living R	Roots (C3) Dry-Season Water Table (C2)						
Sediment Deposits (B2)		esence of F		. ,	Crayfish Burrows (C8)						
Drift Deposits (B3)				n Tilled Soils (
Algal Mat or Crust (B4)		n Muck Su ner (Explair	. ,		Geomorphic Position (D2)						
Iron Deposits (B5)	rks)	Shallow Aquitard (D3) FAC-Neutral Test (D5)									
Water-Stained Leaves (B9)		$\square Sphagnum moss (D8) (LRR T, U)$									
Field Observations:								-) - ,			
Surface Water Present? Yes	s No 🖌	_ Depth (in	iches):								
Water Table Present? Yes	s No 🖌	_ Depth (in	iches):								
Saturation Present? Yes (includes capillary fringe)	Saturation Present? Yes No 🖌 Depth (inches):						Wetland Hydrology Present? Yes No				
Describe Recorded Data (stream g	auge, monitoring v	vell, aerial	photos, pr	evious inspect	ions), if availa	able:					
Remarks:											
		Absolute	Dominant	Indicator	Dominance Test worksheet:						
---------------------------------	---------------------------------	----------	-------------	-----------	---	---------					
Tree Stratum (Plot size: 30 ft			Species?		Number of Dominant Species						
1					That Are OBL, FACW, or FAC: 0	(A)					
2					Total Number of Dominant						
3					Species Across All Strata: 2	(B)					
4					Percent of Dominant Species						
5					That Are OBL, FACW, or FAC: 0	(A/B)					
6					Prevalence Index worksheet:						
7											
8					$\frac{\text{Total \% Cover of:}}{\text{OBL species } 0} \qquad \frac{\text{Multiply by:}}{x 1 = 0}$	_					
		:	Total Cov	er	· · · ·						
	50% of total cover:	20% of	total cover		FACW species $\frac{0}{15}$ x 2 = $\frac{0}{45}$						
Sapling/Shrub Stratum (Plot siz	e: 30 ft r)				FAC species $\frac{15}{83}$ x 3 = $\frac{45}{332}$						
1					FACU species $\frac{83}{2}$ x 4 = $\frac{332}{2}$						
2					UPL species $\frac{0}{08}$ x 5 = $\frac{0}{277}$	_					
3					Column Totals: <u>98</u> (A) <u>377</u>	_ (B)					
4					Prevalence Index = $B/A = 3.85$						
5					Hydrophytic Vegetation Indicators:	_					
6					□ 1 - Rapid Test for Hydrophytic Vegetation						
7					\square 2 - Dominance Test is >50%						
8					\square 3 - Prevalence Index is $\leq 3.0^{1}$						
			= Total Cov		Problematic Hydrophytic Vegetation ¹ (Expla	in)					
	50% of total cover:)					
Herb Stratum (Plot size: 15 ft											
1. Cynodon dactylon	,	40	~	FACU	¹ Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.	nust					
2 Lolium perenne		40	~	FACU	Definitions of Four Vegetation Strata:						
3 Ranunculus sardous		10		FAC							
4. Rumex crispus		5		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 more in diameter at breast height (DBH), regard						
5 Vicia sativa		3		FACU	height.	1855 01					
						1					
					Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 ft (1 m) tal						
7											
8					Herb – All herbaceous (non-woody) plants, rega of size, and woody plants less than 3.28 ft tall.	rdless					
9											
10					Woody vine – All woody vines greater than 3.28	3 ft in					
11					height.						
12		98% :									
			= Total Cov								
	50% of total cover: <u>49.0</u>	20% of	total cover	19.6							
Woody Vine Stratum (Plot size:											
1											
2											
3											
4											
5					Hydrophytic						
		:	Total Cov	er	Vegetation Present? Yes No						
	50% of total cover:	20% of	total cover		Present? Yes No V						
Remarks: (If observed, list mor	phological adaptations below	w).			•						

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	the absence	of indicator	rs.)		
Depth	Matrix			x Feature	4						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc ²	Texture		Remarks		
0 - 2	7.5YR 5/2	100		·			Silty Clay				
2 - 16	7.5YR 4/3	70	5YR 5/1	20	D	Μ	Silty Clay	Second redox fe	eature: 5YR 4/6, 10%	, concentrate,	, matrix
-											
-											
				·	·						
				·							
-						·					
-											
			Reduced Matrix, MS			ains.			ning, M=Matri		
Hydric Soil I	ndicators: (Applic	able to all	LRRs, unless other				_		natic Hydric	Soils ³ :	
Histosol (. ,		Polyvalue Be					/luck (A9) (Ll			
	pipedon (A2)		Thin Dark Su					/luck (A10) (l			
Black Hi	stic (A3) n Sulfide (A4)		Loamy Muck			(0)			18) (outside l in Soils (F19)		
	Layers (A5)		Depleted Mat		(12)				Loamy Soils (119)		3, 1)
	Bodies (A6) (LRR P	P. T. U)	Redox Dark		=6)			RA 153B)		20)	
	cky Mineral (A7) (L l		Depleted Dar	k Surface	e (F7)			arent Materia	al (TF2)		
Muck Pr	esence (A8) (LRR L	J)	Redox Depre	•	8)		U Very S	hallow Dark	Surface (TF1	2)	
	ck (A9) (LRR P, T)		Marl (F10) (L				Other ((Explain in R	Remarks)		
= .	Below Dark Surfac	e (A11)	Depleted Och								
	ark Surface (A12) rairie Redox (A16) (I		Iron-Mangan				•	•	rophytic vege gy must be p		1
	lucky Mineral (S1) (A) Umbric Surfa Delta Ochric			, 0)		•	d or problema		
	lleyed Matrix (S4)		Reduced Ver			0A. 150B)					
	edox (S5)		Piedmont Flo								
	Matrix (S6)		Anomalous B	right Loa	my Soils (F20) (MLR	A 149A, 153C	, 153D)			
Dark Su	rface (S7) (LRR P, \$	S, T, U)									
Restrictive L	_ayer (if observed)	:									
Туре:											
Depth (inc	ches):						Hydric Soil	Present?	Yes	No 📕	<u> </u>
Remarks:											

Project/Site: Port of Little Rock	City/County: Pul	aski County	Sampling Date: 2023-03-07
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Townsh		
Landform (hillslope, terrace, etc.): Flat	Local relief (conc	ave, convex, none): Undulat	ing Slope (%): 1
		,	Datum: WGS 84
Soil Map Unit Name: No - Norwood s			ation: none
	e site typical for this time of year? Yes		
	Hydrology significantly disturbed?		
-		(If needed, explain any answe	
	tach site map showing sampling po	int locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present?	Ves No 🖌	npled Area	No
Wetland Hydrology Present?	Yes No within a V	vetland? Yes	NO
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is r 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:	 Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks) 	Cfairst constraints of the second state of the	ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Position (D2) itard (D3)
Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Yes	No <u>V</u> Depth (inches): No <u>V</u> Depth (inches): No <u>V</u> Depth (inches): e, monitoring well, aerial photos, previous inspe	Wetland Hydrology Present	nt? Yes No✔
Remarks:			

Sampling Point:	T5-02
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	Absolute Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1	<u>% Cover</u> <u>Species?</u> <u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2 3		Total Number of Dominant Species Across All Strata: 0 (B)
4 5	· · ·	Percent of Dominant Species That Are OBL, FACW, or FAC: NaN (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of: Multiply by:
	= Total Cover	OBL species 0 $x = 0$
50% of total cover:	20% of total cover:	FACW species $\frac{0}{5}$ x 2 = $\frac{0}{15}$
Sapling/Shrub Stratum (Plot size: 30 ft r)		FAC species 5 $x_3 = 15$
1	·	FACU species $\frac{0}{2}$ x 4 = $\frac{0}{2}$
2		UPL species 0 $x 5 = 0$
3		Column Totals: <u>5</u> (A) <u>15</u> (B)
4		Prevalence Index = B/A = <u>3.00</u>
5		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	· ·	\Box 3 - Prevalence Index is $\leq 3.0^1$
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 15 ft r) 1. Festuca arundinacea	95 🖌	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Rumex crispus	5 FAC	Definitions of Four Vegetation Strata:
3.		
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
		height.
5		
6 7		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10		Woody vine – All woody vines greater than 3.28 ft in
11	· · ·	height.
12	100% = Total Cover	
50% of total cover: 50.0		
	20% of total cover:	
Woody Vine Stratum (Plot size: 30 ft r)		
1		
2		
3		
4		
5		Hydrophytic
	= Total Cover	Vegetation Present? Yes No Vegetation
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptations belo		

Profile Desc	ription: (Describe	to the depth	n needed to docur	nent the i	indicator	or confirm	the absence o	f indicators.)	
Depth	Matrix			x Feature		. 2		_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc 2	Texture	Rema	irks
0 - 2	7.5YR 2.5/1	100		·	·		Silty Clay		
2 - 16	7.5YR 4/2	100					Silty Clay		
-									
-					·				
					·				
-					·				
	ncentration, D=Dep					ains.		PL=Pore Lining, M= or Problematic Hy	
	ndicators: (Applic	cable to all L					_	-	aric Solis":
Histosol (ick (A9) (LRR O)	
Black His	vipedon (A2)		Thin Dark Su					ick (A10) (LRR S) d Vertic (E18) (outs	side MLRA 150A,B)
	n Sulfide (A4)			-		(0)			(F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma		(• _)			ous Bright Loamy S	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark	. ,	=6)			A 153B)	
5 cm Mu	cky Mineral (A7) (L	RR P, T, U)	Depleted Da	rk Surface	e (F7)			ent Material (TF2)	
Muck Pre	esence (A8) (LRR l	J)	Redox Depre		8)		U Very Sha	allow Dark Surface	(TF12)
	ck (A9) (LRR P, T)		Marl (F10) (L				U Other (E	xplain in Remarks)	,
	Below Dark Surface	ce (A11)					T) ³ ladiaa	have of hudson hudio.	
	ırk Surface (A12) airie Redox (A16) (MI RA 150A)	Iron-Mangan					tors of hydrophytic nd hydrology must	-
	lucky Mineral (S1) (Delta Ochric			, 0)		s disturbed or prob	
	leyed Matrix (S4)	,	Reduced Ver			0A, 150B)			
	edox (S5)		Piedmont Flo						
Stripped	Matrix (S6)		Anomalous E	Bright Loai	my Soils (F20) (MLR	A 149A, 153C, 1	153D)	
	face (S7) (LRR P,	-							
_	ayer (if observed).	:							
Type:									
	ches):						Hydric Soil P	resent? Yes	No 🔽
Remarks:									

Project/Site: Port of Little Rock	City/County: Pu	laski County	Sampling Date: 2023-03-14
Applicant/Owner: Port of Little Rock		State: Arkansas	
	Section, Townsh		
Landform (hillslope, terrace, etc.): Flat	Local relief (conc	cave, convex, none); None	Slope (%); 0
	Lat: 34.66555897	·	
Soil Map Unit Name: RmA - Rilla silt Ioam, 0 t		NWI classifica	
Are climatic / hydrologic conditions on the site typic			
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances"	
Are Vegetation, con, or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach sit			
		,	, , ,
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No Is the Sau No V within a V	mpled Area	
	No vithin a V	Wetland? Yes	No
Remarks:			
Agricultural field.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; c	check all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	📙 Drainage Pa	tterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	📙 Moss Trim L	
│ 🛄 Water Marks (B1)	Oxidized Rhizospheres along Living		Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Bur	· · · ·
	Recent Iron Reduction in Tilled Soils		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7) Other (Explain in Remarks)		Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aqu	. ,
Water-Stained Leaves (B9)		=	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No	✓ Depth (inches):		
	✓ Depth (inches):		
	✓ Depth (inches):		nt? Yes No 🖌
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor	ing well aerial photos, previous inspe	ections) if available:	
Remarks:			

		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				$\begin{array}{c} \hline \hline$
		= Total Cov		FACW species $0 \times 2 = 0$
50% of total cover:	20% of	total cover	:	FAC species 67 x 3 = 201
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species $30 \times 4 = 120$
1	·			UPL species 0 x 5 = 0
2	·			Column Totals: <u>97</u> (A) <u>321</u> (B)
3				Column Totals: \underline{O} (A) \underline{OZT} (B)
4				Prevalence Index = $B/A = 3.31$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	·			
8	·			\square 3 - Prevalence Index is $\leq 3.0^1$
	:	= Total Cov	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	: <u></u>	
Herb Stratum (Plot size: 25 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Ranunculus sardous	65	<u> </u>	FAC	be present, unless disturbed or problematic.
2. Cardamine hirsuta	15		FACU	Definitions of Four Vegetation Strata:
3. Poa annua	15		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Rumex crispus 5	2		FAC	more in diameter at breast height (DBH), regardless of height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	97% :	= Total Cov	ver	
50% of total cover: <u>48.5</u>	20% of	total cover	19.4	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:				Present? Yes V No
Remarks: (If observed, list morphological adaptations belo				
Remarks. (in observed, list morphological adaptations beic	JVV).			

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the	indicator	or confirm	n the absence o	f indicato	rs.)	
Depth	Matrix			ox Feature						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 2	5YR 4/3	100					Silt			
2 - 16	5YR 5/4	100					Silt Loam			
						·				
						·				
-										
-										
_										
						·				
-					·	·				
	oncentration, D=Dep					ains.			ining, M=Matri	
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise not	ed.)		Indicators for	or Proble	matic Hydric S	Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfa	ice (S8) (I	_RR S, T, L		ıck (A9) (L		
Histic Ep	pipedon (A2)		Thin Dark Su					ıck (A10) (
Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRF	R O)				/ILRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Piedmor	nt Floodpla	ain Soils (F19)	(LRR P, S, T)
	d Layers (A5)		Depleted Ma	trix (F3)			L Anomalo	ous Bright	Loamy Soils (I	F20)
	Bodies (A6) (LRR P		Redox Dark	Surface (I	=6)			A 153B)		
	ucky Mineral (A7) (Li		Depleted Da	rk Surface	e (F7)			ent Materi		
	esence (A8) (LRR U)	Redox Depr	•	8)				Surface (TF1	2)
1 cm Mu	uck (A9) (LRR P, T)		Marl (F10) (I				U Other (E	xplain in F	Remarks)	
	d Below Dark Surfac	e (A11)	Depleted Oc							
	ark Surface (A12)		Iron-Mangar						Irophytic veget	
	rairie Redox (A16) (I							-	ogy must be pr	
	/lucky Mineral (S1) (I	_RR O, S)	Delta Ochric					s disturbe	d or problemat	tic.
	Bleyed Matrix (S4)		Reduced Ve							
	Redox (S5)		Piedmont Fl							
	Matrix (S6)		Anomalous I	Bright Loa	my Soils ((F20) (MLR	A 149A, 153C, 1	153D)		
	rface (S7) (LRR P, S						•			
Restrictive I	Layer (if observed):									
Туре:										
Depth (ind	ches):						Hydric Soil P	resent?	Yes	No 🖌
Remarks:										

Project/Site: Port of Little Rock	City/County: Pulaski Co	ounty	Sampling Date: 2023-03-14
Applicant/Owner: Port of Little Rock			Sampling Point: T5-04
	Section, Township, Range		
	Local relief (concave, con		Slope (%): 0-15
Subregion (LRR or MLRA): P 133B Lat: 3		·	Datum: WGS 84
Soil Map Unit Name: Ko - Keo silt Ioam, 0 to 1 percent sic		•	
Are climatic / hydrologic conditions on the site typical for this time			
			· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology signific			
Are Vegetation, Soil, or Hydrology natura	y problematic? (If need	led, explain any answer	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ving sampling point loc	ations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	within a Wetland?		No
Remarks:			
Linear depression.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Saturation (A3) Hydrogen Sul Water Marks (B1) Oxidized Rhiz Sediment Deposits (B2) Presence of F	(B13) (B15) (LRR U) ide Odor (C1) ospheres along Living Roots (C educed Iron (C4) eduction in Tilled Soils (C6) face (C7) in Remarks) ches): <u>0</u> wetla	Drainage Pat Moss Trim Lii Dry-Season V Crayfish Burr Saturation Vii Geomorphic Shallow Aqui FAC-Neutral Sphagnum m	etated Concave Surface (B8) terns (B10) nes (B16) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) toss (D8) (LRR T, U)
	· · · · · · · · · · · · · · · · · · ·		
Remarks:			

	. .		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft	<u>r)</u>)		Species?		Number of Dominant Species	
1. Populus deltoides		20	<u> </u>	FAC	That Are OBL, FACW, or FAC: _4	(A)
2. Celtis laevigata		15	<u> </u>	FACW	Total Number of Dominant	
3						(B)
4						
5.					Percent of Dominant Species That Are OBL, FACW, or FAC: 80	(A/B)
					That Ale OBL, FACW, of FAC.	(A/D)
6					Prevalence Index worksheet:	
7			·		Total % Cover of: Multiply by:	
8		0.5%			OBL species 10 x 1 = 10	
			= Total Cov		FACW species 45 x 2 = 90	
	50% of total cover: 17.5	20% of	total cover	<u>:</u> 7.0		
Sapling/Shrub Stratum (Plot size	e: 30 ft r)					
_{1.} Celtis laevigata		30	~	FACW	FACU species 10 x 4 = 40	
2. Pyrus calleryana		10	~		UPL species 0 x 5 = 0	
					Column Totals: <u>85</u> (A) <u>200</u>	(B)
3						
4					Prevalence Index = $B/A = 2.35$	
5					Hydrophytic Vegetation Indicators:	
6					1 - Rapid Test for Hydrophytic Vegetation	
7					2 - Dominance Test is >50%	
8					\square 3 - Prevalence Index is $\leq 3.0^{1}$	
			= Total Cov	/er		
	50% of total cover: 20.0				Problematic Hydrophytic Vegetation ¹ (Explain)
20 #		20% of	total cover	0.0		
Herb Stratum (Plot size: 30 ft	<u>r</u>)	4.0			¹ Indicators of hydric soil and wetland hydrology mu	ust
_{1.} Juncus effusus		10	 ✓ 	OBL	be present, unless disturbed or problematic.	
2					Definitions of Four Vegetation Strata:	
3						
4.					Tree – Woody plants, excluding vines, 3 in. (7.6 cr	
					more in diameter at breast height (DBH), regardles height.	55 01
5						
6					Sapling/Shrub – Woody plants, excluding vines, I	ess
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8					Herb – All herbaceous (non-woody) plants, regard	less
9					of size, and woody plants less than 3.28 ft tall.	1000
10						
					Woody vine – All woody vines greater than 3.28 ft	t in
11					height.	
12			<u> </u>			
		<u> 10% </u> =	Total Cov	/er		
	50% of total cover: 5.0	20% of	total cover	2.0		
Woody Vine Stratum (Plot size:	30 ft r)					
1 Lonicera japonica	/	10	~	FACU		
2						
3						
4						
5					Hydrophytic	
			= Total Cov	/er	Vegetation	
	50% of total cover: 5				Present? Yes <u>V</u> No	
			iolai cover	· <u>-</u>		
Remarks: (If observed, list mor	phological adaptations belo	w).				

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirn	n the absence	of indicato	ors.)		
Depth	Matrix		Redox Features								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Ren	narks	
0 - 2	7.5YR 2.5/2	100		. <u></u>			Silt				
2 - 16	5YR 6/1	60	5YR 4/4	40	С	М	Silty Clay Loam				
				·							
-				·							
_				·	<u> </u>						
-											
¹ Type: C=Co	oncentration D=Der	oletion RM:	Reduced Matrix, MS	S=Maske	d Sand Gr	ains	² Location:	PI =Pore I	inina N	/=Matri	×
			LRRs, unless other				Indicators				
Histosol ((A1)		Polyvalue Be	low Surfa	ace (S8) (L	.RR S. T. I	J) 🗌 1 cm M	uck (A9) (I	RR O)		
	pipedon (A2)		Thin Dark Su					uck (A10)			
Black Hi			Loamy Muck								MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	-							(LRR P, S, T)
Stratified	Layers (A5)		Depleted Mat	trix (F3)			🔲 Anoma	lous Bright	Loamy	Soils (F20)
	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (I	F6)		(MLR	A 153B)			
🔲 5 cm Mu	cky Mineral (A7) (L	RR P, T, U)	Depleted Dar	k Surface	e (F7)			rent Mater			
Muck Pr	esence (A8) (LRR l	J)	Redox Depre	ssions (F	8)		L Very St	nallow Darl	< Surfac	:e (TF1	2)
	ck (A9) (LRR P, T)		∐_ Marl (F10) (L	RR U)			Other (Explain in l	Remark	.s)	
	Below Dark Surfac	ce (A11)	Depleted Och				2				
	rk Surface (A12)		Iron-Mangan				•	ators of hyd		-	
	airie Redox (A16) (', U)		and hydrol			
	lucky Mineral (S1) (LRR O, S)	Delta Ochric					ss disturbe	d or pro	oblema	tic.
	leyed Matrix (S4)		Reduced Ver								
	edox (S5) Matrix (S6)		Piedmont Flo				чэа) RA 149A, 153C,	1520)			
	face (S7) (LRR P, 3	ст II)		ngni Lua	iny sons ((A 149A, 155C,	1550)			
	_ayer (if observed)	-									
Type:	,										
	ches):						Hydric Soil	Present?	Yes	~	No
Remarks:							,				
r tomanto.											

Project/Site: Port of Little Rock		City/	City/County: Pulaski County Sampling Date: 2023-03-14						
Applicant/Owner: Port of Little Rock	(state: Arkansas					
			Sect						
Landform (hillslope, terrace, etc.): Flat			Loca	I relief (conca	ve. convex. n	none): None		Slope (%):	1
Subregion (LRR or MLRA): P 133B				•		92.17484		• • • •	
Soil Map Unit Name: RmA - Rilla silt						NWI classifica			
Are climatic / hydrologic conditions on th				Yes 🗸 N	lo (1				
Are Vegetation, Soil, or						Circumstances" p			0
Are Vegetation, Soil, or		-	-			xplain any answe			J
SUMMARY OF FINDINGS - A					•				es, etc.
Liverante tic Verstation Dresent?	Vac	Na	<u> </u>				-		
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes			Is the Sam					
Wetland Hydrology Present?	Yes			within a W	etland?	Yes	No	<u>v</u>	
Remarks:									
Agricultural field.									
HYDROLOGY									
Wetland Hydrology Indicators:					(Secondary Indica	tors (minim	um of two re	quired)
Primary Indicators (minimum of one is	required; checl	k all that	apply)			Surface Soil	Cracks (B6)		
Surface Water (A1)	Aqı	uatic Fau	na (B13)		-	Sparsely Veg	getated Con	cave Surface	e (B8)
High Water Table (A2)			its (B15) (LF		Drainage Patterns (B10)				
Saturation (A3)		-	ulfide Odor	. ,	Moss Trim Lines (B16)				
Water Marks (B1)				along Living R					
Sediment Deposits (B2)			Reduced Ir	. ,	<u> </u>	Crayfish Buri	. ,		(00)
Drift Deposits (B3)				n Tilled Soils (C6)	Saturation Vi			(C9)
Algal Mat or Crust (B4)			Surface (C7)			Geomorphic		2)	
Iron Deposits (B5)			ain in Rema	KS)		Shallow Aqui			
Water-Stained Leaves (B9)	, y (D7)				4	Sphagnum m	. ,	RR T. U)	
Field Observations:									
Surface Water Present? Yes	No 🖌	Depth ((inches):						
	No 🖌								
Saturation Present? Yes	No 🖌	Depth ((inches):		Wetland Hy	ydrology Presen	t? Yes	No	~
(includes capillary fringe) Describe Recorded Data (stream gaug	ne monitorina v	voll apris	al nhotos inr	evious inspec	tione) if avail	lahla:			
	je, monitoring v	ven, aena	ai priotos, pr	evious inspec	lions), ii avali				
Remarks:									

			Dominant		Dominance Test worksheet:					
Tree Stratum (Plot size: 30 ft r			Species?		Number of Dominant Species					
1					That Are OBL, FACW, or FAC: 0 (A))				
2					Total Number of Dominant					
3					Species Across All Strata: 2 (B))				
4					Percent of Dominant Species					
5					That Are OBL, FACW, or FAC: 0 (Av	/B)				
6					Prevalence Index worksheet:					
7										
8					$\begin{array}{c c} \hline Total \% Cover of: \\ \hline OBL species 0 \\ \hline x 1 = 0 \\ \hline \end{array}$					
			= Total Cov							
	50% of total cover:	20% of	total cover	:						
Sapling/Shrub Stratum (Plot size	: <u>30 ft r</u>)									
1					FACU species $\frac{45}{2}$ $x = \frac{180}{2}$					
2					UPL species 0 $x 5 = 0$					
3					Column Totals: <u>55</u> (A) <u>205</u> (F	B)				
4.					Prevalence Index = $B/A = 3.73$					
5					Hydrophytic Vegetation Indicators:					
6										
7					1 - Rapid Test for Hydrophytic Vegetation					
					\square 2 - Dominance Test is >50%					
8			= Total Cov		\square 3 - Prevalence Index is ≤3.0 ¹					
	E0% of total anyor:				Problematic Hydrophytic Vegetation ¹ (Explain)					
	50% of total cover:	20% 01								
Herb Stratum (Plot size: 15 ft r 1 Lamium amplexicaule)	25	~		¹ Indicators of hydric soil and wetland hydrology must	t				
2. Cardamine hirsuta				FACU	be present, unless disturbed or problematic.					
	20			Definitions of Four Vegetation Strata:						
3. Lolium perenne	15	 ✓ 	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	or					
4. Geranium carolinianum		10			more in diameter at breast height (DBH), regardless	of				
5. Alopecurus carolinianus		5	<u> </u>	FACW	height.					
6. Oenothera laciniata		5		FACU	Sapling/Shrub – Woody plants, excluding vines, less					
7. Ranunculus sardous		5		FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.					
_{8.} Vicia sativa		5		FACU	Herb – All herbaceous (non-woody) plants, regardles	ss				
9				FAC	of size, and woody plants less than 3.28 ft tall.					
10					Woody vine – All woody vines greater than 3.28 ft ir	n				
11					height.	-				
12										
		90% =	= Total Cov	ver						
	50% of total cover: 45.0	20% of	total cover	18.0						
Woody Vine Stratum (Plot size:	30 ft r)									
1										
2										
3.										
4.										
5					Underseta					
··			= Total Cov		Hydrophytic Vegetation					
	50% of total cover:				Present? Yes No 🖌					
				·						
Remarks: (If observed, list morpl	noiogical adaptations belo	w).								

peptin Matrix Redox Features 0 • 2 5YR 4/3 100	Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence o	of indicato	ors.)	
0 · 2 5YR 4/3 100 Silt 2 · 16 5YR 5/4 100 Silt Loam . Silt Loam . . <								_			
2 . 16 5YR 5/4 100 Silt Loam 				Color (moist)	%	Type'	Loc 2			Remarks	
i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histosol (A1) 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 150A,B) Hydrogen Sulfide (A4) Doepleted Matrix (F2) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Stratified Layers (A5) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Deta Ochric (F13) (MLRA 150A, 150B) Singhed Matrix (S6) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Reduced Vertic (F18) (MLRA 149A, 153C, 153D	2 - 16	5YR 5/4	100					Silt Loam			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histosol (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Stratified Layers (A5) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR P, T, U) Redox Depressions (F8) Uvery Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Deta Ochric (F13) (MLRA 150A, 150B) anomalous Bright Loamy Soils (F20) (MLRA 149A) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) nomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Piedmont F	-		<u> </u>								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histosol (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Stratified Layers (A5) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR P, T, U) Redox Depressions (F8) Uvery Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Deta Ochric (F13) (MLRA 150A, 150B) anomalous Bright Loamy Soils (F20) (MLRA 149A) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) nomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Piedmont F	-										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histosol (A1) 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 150A,B) Hydrogen Sulfide (A4) Doepleted Matrix (F2) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Stratified Layers (A5) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Deta Ochric (F13) (MLRA 150A, 150B) Singhed Matrix (S6) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Reduced Vertic (F18) (MLRA 149A, 153C, 153D	-										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histosol (A1) 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 150A,B) Hydrogen Sulfide (A4) Doepleted Matrix (F2) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Stratified Layers (A5) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Deta Ochric (F13) (MLRA 150A, 150B) Singhed Matrix (S6) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Reduced Vertic (F18) (MLRA 149A, 153C, 153D					<u> </u>						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histosol (A1) 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 150A,B) Hydrogen Sulfide (A4) Doepleted Matrix (F2) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Stratified Layers (A5) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Deta Ochric (F13) (MLRA 150A, 150B) Singhed Matrix (S6) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Reduced Vertic (F18) (MLRA 149A, 153C, 153D		·			·		·	· ·			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histosol (A1) 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 150A,B) Hydrogen Sulfide (A4) Doepleted Matrix (F2) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Stratified Layers (A5) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Deta Ochric (F13) (MLRA 150A, 150B) Singhed Matrix (S6) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Reduced Vertic (F18) (MLRA 149A, 153C, 153D	- 1 							2,			
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) 2 cm Muck (A10) (LRR S) Hydrogen Sulfide (A4) Depleted Matrix (F2) Reduced Vertic (F18) (outside MLRA 150A,B) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Anomalous Bright Loamy Soils (F20) 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Depressions (F8) Mark (F10) (LRR U) 1 cm Muck (A9) (LRR P, T, U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T, U) Redox Depressions (F8) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) anomalous Bright Loamy Soils (F20) (MLRA 149A) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 150A, 150B) unless disturbed or problematic. Sandy Redox (S5) Delta Ochric (F13) (LRR P, T, U) unless disturbed or problematic. Sandy Medox (S5) Delta Ochric (F17) (MLRA 150A, 150B) nulless disturbed or problematic. Sandy Redox (S5)							ains.				
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 150A,B) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR V, T) Depleted Dark Surface (F7) Red Parent Material (TF2) 1 cm Muck (A9) (LRR P, T, U) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (TF12) 0 ther (Explain in Remarks) Depleted Ochric (F17) (MLRA 151) Jindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (MLRA 150A) unless disturbed or problematic. Sandy Gleyed Matrix (S6) Delated Ortic (F18) (MLRA 150A) unless disturbed or problematic. 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: No Very Type: Depth (inches): Yes No V <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ррсти</td> <td></td> <td></td> <td>-</td> <td>50113 .</td>							ррсти			-	50113 .
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Stratified Layers (A5) Depleted Matrix (F3) Redox Dark Surface (F7) Muck Presence (A8) (LRR U) Redox Depressions (F8) Redox Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Redox Depressions (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 150A, 150B) unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) anomalous Bright Loamy Soils (F20) (MLRA 149A) Dark Surface (S7) (LRR P, S, T, U) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) No Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No V		,									
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) 1 cm Advis (A6) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Belate Ochric (F12) (LRR O, P, T) Bindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. S andy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F13) (MLRA 150A, 150B) Wetland hydrology must be present, unless disturbed or problematic. S andy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) S tripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: No V Type:		• • •									MLRA 150A,B)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F13) (LRR 150A) Sandy Redox (S5) Delta Ochric (F17) (MLRA 151) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)				=	-		,				
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 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) unless disturbed or problematic. Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Yes No Type:				Depleted Ma	trix (F3)			Anomal	ous Bright	Loamy Soils (F20)
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) 3Indicators of hydrophytic vegetation and 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) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Depth (inches): Type: Muck No ✓	-			=	•	,					
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) 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) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No										· · ·	
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegetation and wetland hydrology must be present, 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) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Depth (inches): Type:)		•	3)					2)
☐ Thick Dark Surface (A12) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. ☐ Coast Prairie Redox (A16) (MLRA 150A) ☐ Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. ☐ Sandy Redox (S5) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) unless disturbed or problematic. ☐ Stripped Matrix (S6) ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Image: Comparison of the structure of the stru			e (A11)	=	•		51)		zpiain in i	Remarks)	
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) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type:			c (////)					T) ³ Indica	tors of hvo	drophytic veae	tation and
Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)		. ,	MLRA 150A)	-		. , .			-		
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) 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:	🔲 Sandy M	ucky Mineral (S1) (I	_RR O, S)					unles	ss disturbe	ed or problema	itic.
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											
□ Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type:											
Restrictive Layer (if observed):		· · ·	· T II)	Anomalous E	Bright Loan	ny Soils (F20) (MLR	A 149A, 153C,	153D)		
Type:			-								
Depth (inches):	_										
		hes):						Hvdric Soil F	Present?	Yes	No 🖌

Project/Site: Port of Little Rock	aski County	Sampling Date: 2023-03-14						
Applicant/Owner: Port of Little Rock		State: Arkansas Sampling Point: T5-06						
	Section, Township, Range: S34 T1N R11W							
Landform (hillslope, terrace, etc.): Artificial Levee	Local relief (conc	ave, convex, none): Convex	Slope (%): 0-40					
Subregion (LRR or MLRA): P 133B		·						
Soil Map Unit Name: BPI - Pits, borrow		NWI classifica						
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes							
Are Vegetation, Soil, or Hydrology								
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe						
SUMMARY OF FINDINGS – Attach site ma								
Hydrophytic Vegetation Present? Yes								
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No V Is the San	npled Area						
Wetland Hydrology Present? Yes		/etland? Yes	No					
Remarks:	I							
Levee.								
HYDROLOGY								
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)					
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil	Cracks (B6)					
Surface Water (A1)	atic Fauna (B13)	Sparsely Ve	getated Concave Surface (B8)					
High Water Table (A2)	Deposits (B15) (LRR U)	🔲 Drainage Pa	tterns (B10)					
	ogen Sulfide Odor (C1)	Moss Trim L	ines (B16)					
Water Marks (B1)	ized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)					
	ence of Reduced Iron (C4)	Crayfish Bur	· · /					
	ent Iron Reduction in Tilled Soils		isible on Aerial Imagery (C9)					
	Muck Surface (C7)	Geomorphic Position (D2)						
☐ Iron Deposits (B5) ☐ Othe ☐ Inundation Visible on Aerial Imagery (B7)	r (Explain in Remarks)	Shallow Aquitard (D3) FAC-Neutral Test (D5)						
Water-Stained Leaves (B9)			noss (D8) (LRR T, U)					
Field Observations:								
	Depth (inches):							
	Depth (inches):							
Saturation Present? Yes No _	Depth (inches):	Wetland Hydrology Preser	nt? Yes No 🖌					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring we	II, aerial photos, previous inspe	tions), if available:						
Remarks:								

		Dominant		Dominance Test worksheet:				
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)				
2				Total Number of Dominant				
3				Species Across All Strata: 0 (B)				
4				Percent of Dominant Species				
5				That Are OBL, FACW, or FAC: <u>NaN</u> (A/B)				
6			<u> </u>	Prevalence Index worksheet:				
7				Total % Cover of: Multiply by:				
8				$\overline{\text{OBL species } 0} = x 1 = 0$				
		= Total Co		FACW species 0 x 2 = 0				
50% of total cover:	20% of	total cover		FAC species 10 x 3 = 30				
Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>)				FACU species 15 x 4 = 60				
1				UPL species 0 x 5 = 0				
2				Column Totals: 25 (A) 90 (B)				
3								
4				Prevalence Index = B/A = <u>3.6</u>				
5				Hydrophytic Vegetation Indicators:				
6				1 - Rapid Test for Hydrophytic Vegetation				
7				└── 2 - Dominance Test is >50%				
8		= Total Co		\square 3 - Prevalence Index is $\leq 3.0^{1}$				
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)				
Herb Stratum (Plot size: 10 x 20 ft r)	20 % 01		•	1				
1. Lamium purpureum		~		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
2. Lolium perenne			FACU	Definitions of Four Vegetation Strata:				
3. Chaerophyllum tainturieri	5		FAC	Demittoris of Four Vegetation Strata.				
4. Rumex crispus	5		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or				
5 Vicia caroliniana	5		FACU	more in diameter at breast height (DBH), regardless of height.				
6 Geranium carolinianum	3							
···				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.				
7 8								
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
10				Woody vine - All woody vines greater than 3.28 ft in				
11				height.				
12								
40.0		= Total Co						
50% of total cover: <u>49.0</u>	20% of	total cover	<u>19.0</u>					
Woody Vine Stratum (Plot size: 30 ft r)								
1								
2								
3								
4								
5				Hydrophytic Vegetation				
50% of total cover:		= Total Cov		Present? Yes No V				
			· <u> </u>					
Remarks: (If observed, list morphological adaptations bel	OW).							

Profile Desc	cription: (Describe	to the depth	needed to docur	ment the i	ndicator	or confirm	the absence of	of indicators.)
Depth	Matrix			x Feature		0		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
-								
						·		
-								
-								
-								
·						·		
-						<u> </u>		
	oncentration, D=Dep					ains.		PL=Pore Lining, M=Matrix.
-	Indicators: (Applic	able to all Li	_					for Problematic Hydric Soils ³ :
Histosol			Polyvalue Be					uck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					uck (A10) (LRR S)
	istic (A3)		Loamy Muck	•		R O)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5) Bodies (A6) (LRR F	о т ну	Depleted Ma	• •	6)			lous Bright Loamy Soils (F20) A 153B)
	ucky Mineral (A7) (L		Depleted Da	`	,			rent Material (TF2)
	resence (A8) (LRR L		Redox Depre					nallow Dark Surface (TF12)
	uck (A9) (LRR P, T)	•)	Marl (F10) (L		0)			Explain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc		(MLRA 1	51)		
= .	ark Surface (A12)	、	Iron-Mangan				r) ³ Indica	ators of hydrophytic vegetation and
Coast P	rairie Redox (A16) (MLRA 150A)	Umbric Surfa	ace (F13) ((LRR P, T	', U)	wetla	and hydrology must be present,
Sandy N	/lucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unle	ss disturbed or problematic.
Sandy G	Gleyed Matrix (S4)		Reduced Ve	rtic (F18) (MLRA 15	0A, 150B)		
	Redox (S5)		Piedmont Flo					
	Matrix (S6)		Anomalous E	Bright Loar	my Soils (F20) (MLR A	A 149A, 153C,	153D)
	Inface (S7) (LRR P,	-						
	Layer (if observed)							
Туре:								
Depth (in	ches):						Hydric Soil I	Present? Yes No
Remarks:								
No pit; r	nan made le ^v	vee; soils	s assumed	non-h	vdric.			
				•				

Project/Site: Port of Little Rock	City/County:		Sampling Date: 2023-02-20
Applicant/Owner: Port of Little Rock		State:	
	Section, Townshi		
Landform (hillslope, terrace, etc.):			
Subregion (LRR or MLRA):			
Soil Map Unit Name: Keo silt loam, 0 to 1 percent	slopes, rarely flooded	NWI classifica	
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology			present? YesNo
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site ma			,
Hydrophytic Vegetation Present? Yes		· · · · · · · · · · · · · · · · · · ·	· · ·
Hydric Soil Present? Yes	No 🖌	npled Area	
Wetland Hydrology Present? Yes 🖌	within a v	/etland? Yes	No
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil	
	itic Fauna (B13)	📃 Sparsely Veç	getated Concave Surface (B8)
	Deposits (B15) (LRR U)	Drainage Pat	
	ogen Sulfide Odor (C1)	Moss Trim Li	· · ·
	ized Rhizospheres along Living ence of Reduced Iron (C4)	Roots (C3) 🔟 Dry-Season ' Crayfish Buri	Water Table (C2)
	ence of Reduced from (C4) ent Iron Reduction in Tilled Soils		isible on Aerial Imagery (C9)
	Muck Surface (C7)		Position (D2)
	r (Explain in Remarks)	Shallow Aqui	itard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)		Sphagnum m	noss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No	Donth (inchoo): 12		
	Depth (inches):		
	Depth (inches):	Wetland Hydrology Presen	nt? Yes 🖌 No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring we	II, aerial photos, previous inspec	tions), if available:	
Remarks:			
Nelliano.			

Sampling Point:	Test
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		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft	<u>r</u>)	% Cover	Species?	<u>Status</u>	Number of Dominant Species	
1					That Are OBL, FACW, or FAC: 0 (A	۹)
2					Total Number of Dominant	
3					Species Across All Strata: 0 (B	3)
4					Demonstrat Demois and Oracian	
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A	VB)
6						
7					Prevalence Index worksheet:	
8					Total % Cover of: Multiply by:	
			= Total Cove	er	OBL species 0 x 1 = 0	
	50% of total cover:				FACW species $0 x 2 = 0$	
Sapling/Shrub Stratum (Plot siz		20 /0 01			FAC species $0 \times 3 = 0$	
1. Cephalanthus occidenta		50	~		FACU species $0 x 4 = 0$	
					UPL species $0 x 5 = 0$	
2					Column Totals: 0 (A) 0 ((B)
3						· /
4					Prevalence Index = $B/A = 0.0$	
5					Hydrophytic Vegetation Indicators:	
6					1 - Rapid Test for Hydrophytic Vegetation	
7					2 - Dominance Test is >50%	
8					$\boxed{\square}$ 3 - Prevalence Index is $\leq 3.0^1$	
		50%	= Total Cove	er	Problematic Hydrophytic Vegetation ¹ (Explain)	
	50% of total cover: 25.0	20% of	total cover:	10.0		
Herb Stratum (Plot size: 30 ft	t r)				¹ Indicators of hydric soil and wetland hydrology mus	.+
1					be present, unless disturbed or problematic.	51
2					Definitions of Four Vegetation Strata:	
3					Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	
4					more in diameter at breast height (DBH), regardless height.	s of
5						
6					Sapling/Shrub – Woody plants, excluding vines, les	SS
7					than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8					Herb - All herbaceous (non-woody) plants, regardle	ess
9		. <u> </u>			of size, and woody plants less than 3.28 ft tall.	
10					Woody vine – All woody vines greater than 3.28 ft i	in
11					height.	
12						
		:	= Total Cove	er		
	50% of total cover:	20% of	total cover:			
Woody Vine Stratum (Plot size:	30 ft r)					
1						
2.						
3.						
4						
5					Hydrophytic	
			= Total Cove		Vegetation Present? Yes No	
	50% of total cover:	20% of	total cover:	<u> </u>		
Remarks: (If observed, list mor	phological adaptations belo	w).				

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the	indicator	or confirn	n the absence o	of indicato	ors.)		
Depth	Matrix		Redo	x Feature	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		<u>s</u>	
0 - 18	10YR 3/2	80	10YR 5/6	20	С	М	Silt				
-											
						·					
						·	·				
-							·				
-											
						·	·				
-							·				
			Reduced Matrix, MS			ains.	² Location: I				
Hydric Soil	Indicators: (Applie	cable to all I	RRs, unless other	wise no	ted.)		Indicators f	or Proble	matic Hydr	ic Soils ³ :	
Histosol	(A1)		Polyvalue Be	low Surfa	ace (S8) (I	.RR S, T, l	J) <u>Ц</u> 1 ст М і	uck (A9) (l	.RR O)		
Histic Ep	oipedon (A2)		Thin Dark Su	Irface (SS	9) (LRR S ,	T, U)		uck (A10)			
Black Hi	· · ·		Loamy Muck	-		R O)			18) (outsid		
	n Sulfide (A4)		Loamy Gleye		(F2)			•	ain Soils (F1	<i>,</i> .	P, S, T)
	l Layers (A5)		Depleted Mat	· · ·				-	Loamy Soil	s (F20)	
	Bodies (A6) (LRR F		Redox Dark	`	,			A 153B)			
	icky Mineral (A7) (L		Depleted Dar		. ,			rent Mater	, ,	-	
	esence (A8) (LRR I	J)	Redox Depre		-8)				C Surface (T	F12)	
	ick (A9) (LRR P, T)	- (/ / /)	Marl (F10) (L			F 4)		Explain in I	Remarks)		
	d Below Dark Surfac ark Surface (A12)	ce (ATT)	Depleted Och				T) ³ Indiag	toro of bu	drophytic ve	actation a	nd
	rairie Redox (A16) (MI PA 150A						,	ogy must be	•	inu
	lucky Mineral (S1) (Delta Ochric			, 0)		-	ed or proble		
	Bleyed Matrix (S4)		Reduced Ver			50A 150B)		55 01510100		nauc.	
	edox (S5)		Piedmont Flo								
	Matrix (S6)						RA 149A, 153C,	153D)			
	rface (S7) (LRR P,	S. T. U)				, (,	,			
	_ayer (if observed)										
Type:											
	ches):						Hydric Soil F	Present?	Yes	No	~
Remarks:											
Remarks.											



Representative Photos



Photo 1. Overview from southwestern corner of project area looking northeast.



Photo 2. Overview from central southern edge of project area looking north.



Photo 3. Overview from southeastern corner of project area looking north/northwest.



Photo 4. Overview from T4-05 area looking west.



Photo 5. Overview from western edge of active borrow pit looking northwest.



Photo 6. Overview from west central portion of project area, looking west/northwest.



Photo 7. Overview from west central portion of project area, looking west/southwest.



Photo 8. Overview of central portion of project area looking southeast.



Photo 9. Overview of central portion of project area looking southwest.



Photo 10. Row-planted forested community near central portion of project area.



Photo 11. Row-planted forested community near central portion of project area.



Photo 12. Active borrow pit near eastern project boundary.



Photo 13. Ephemeral channel: EPH-1.



Photo 14. Ephemeral channel: EPH-2.



Photo 15. Ephemeral channel: EPH-3.



Photo 16. Farm Ditch-1.



Photo 17. Farm Ditch-1.



Photo 18. Farm Ditch-2.



Photo 19. Farm Ditch-1, Farm Ditch-2.



Photo 20. Farm Ditch-3 (and associated wetlands).



Photo 21. Farm Ditch-4.



Photo 22. Farm Ditch-4.



Photo 23. Farm Ditch-5.



Photo 24. Farm Ditch-6.



Photo 25. Farm Ditch-7.



Photo 26. Open water pond: OW-1.



Photo 27. Open water pond: OW-2.



Photo 28. Open water pond: OW-2.



Photo 29. Former borrow area wetland: WET-A.



Photo 30. Agricultural field wetland: WET-B.


Photo 31. Agricultural field wetland: WET-B.



Photo 32. Agricultural field wetland: WET-B.



Photo 33. Agricultural field wetland: WET-B.



Photo 34. Agricultural field wetland: WET-B.



Photo 35. Former borrow area wetland and agricultural field wetland complex: WET-A and WET-B.



Photo 36. Field edge wetland: WET-C.



Photo 37. Agricultural wetland swale/slough: WET-D.



Photo 38. Forested wetland: WET-E.



Photo 39. Forested wetland: WET-E. Agricultural wetland swale/slough; WET-D.



Photo 40. Forested bottomlands wetland: WET-G.



Photo 41. Agricultural field wetland: WET-F. Forested bottomlands wetland: WET-G.



Photo 42. Forested wetland swale/slough: WET-H.



Photo 43. Agricultural field wetland: WET-I.



Photo 44. Forested wetland depression: WET-K.



Photo 45. Forested wetland swale/slough: WET-H. Forested depression wetland: WET-K, WET-J. Agricultural field wetland: WET-I.



Photo 46. Herbaceous wetland swale/drainageway: WET-L.



Photo 47. Herbaceous wetland swale/drainageway: WET-L.



Photo 48. Herbaceous wetland swale/drainageway: WET-M.



Photo 49. Herbaceous wetland swale/slough/drainageway: WET-L, WET-M.



Photo 50. Forested wetland swale/slough: WET-N.



Photo 51. Forested wetland swale/slough: WET-N.



Photo 52. Inundated herbaceous wetland: WET-O.



Photo 53. Agricultural field wetland: WET-P.



Photo 54. Agricultural field wetland: WET-P.



Photo 55. Forested depression/historic drainage wetland: WET-Q.



Photo 56. Forested depression/historic drainage wetland: WET-Q.



Photo 57. Forested wetland depression: WET-R.



Photo 58. Forested wetland depression: WET-R.



Photo 59. Inundated herbaceous wetland: WET-S.



Photo 60. Forested wetland depression: WET-T.



Photo 61. Inundated herbaceous wetland: WET-S. Forested depression/historic drainage wetland: WET-T.



Photo 62. Inundated herbaceous wetland: WET-U.



Photo 63. Inundated herbaceous wetland: WET-U.



Photo 64. Forested wetland depression: WET-V.



Photo 65. Agricultural wetland swale/slough: WET-W.



Photo 66. Agricultural wetland swale/slough: WET-W.



Photo 67. Forested wetland swale/slough: WET-X.



Photo 68. Forested wetland swale/slough: WET-X.



Photo 69. Agricultural wetland swale/slough: WET-Y.



Photo 70. Forested wetland depression: WET-Z.



Photo 71. Forested wetland depression: WET-AA.



Photo 72. Forested wetland swale/slough community: WET-AB.



Photo 73. Agricultural wetland swale/slough: WET-AC. (Eastern edge of WET-AB in photo background.)



Photo 74. Forested wetland swale/slough community: WET-AB. Agricultural wetland swale/slough community: WET-AC.



Photo 75. Former pond wetland: WET-AD.



Photo 76. Former pond wetland: WET-AD.



Photo 77. Forested wetland swale/slough community: WET-AE.



Photo 78. Agricultural wetland swale/slough: WET-AF.



Photo 79. Forested wetland swale/slough community: WET-AE. Agricultural wetland swale/slough community: WET-AF.



Photo 80. Wetland features near west central portion of project area.



Photo 81. Agricultural (primarily) wetland swale/slough: WET-AG.



Photo 82. Agricultural wetland swale/slough: WET-AH.



Photo 83. Agricultural field wetland: WET-AI



Photo 84. Agricultural field wetland: WET-AI



Photo 85. Agricultural wetland swale/slough: WET-AJ.



Photo 86. Agricultural wetland swale/slough: WET-AK.



Photo 87. Forested wetland swale/slough: WET-AL.



Photo 88. Agricultural wetland swale/slough: WET-AM.



Photo 89. Agricultural wetland swale/slough: WET-AM.



Photo 90. Agricultural field wetland: WET-AN.



Photo 91. Agricultural field wetland: WET-AN.



Photo 92. Agricultural wetland swale/slough: WET-AO.



Photo 93. Forested wetland swale/slough community: WET-AP.



Photo 94. Agricultural wetland swale/slough: WET-AQ.



Photo 95. Agricultural wetland swale/slough: WET-AR.



Photo 96. Agricultural/Forested wetland swale/slough: WET-AS, WET-AT.



Photo 97. Features near southwestern portion of project area.



Photo 98. Forested wetland swale/slough community: WET-AP, WET-AL. Agricultural wetland swale/slough community: WET-AJ, WET-AO, WET-AK. Farm Ditch-7.



Photo 99. Forested wetland on river side of levee: WET-AU.