Wetland Delineation Report for the Black Diamond Solar Project Christian County, Illinois

Final Report



Prepared for:

Swift Current Energy

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REPORT REFERENCE

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ACKNOWLEDGEMENTS

Thank you to Dave Fowler, Matt Birchby, Stephanie Fowler, Daniel Sheehan, and all the staff and landowners at the Black Diamond Solar Project for the opportunity to work on this project.

This waters determination has been prepared based on the best available information, interpreted in the light of the investigator's training, experience and professional judgement in conformance with the 1987 Corps of Engineers Wetlands Delineation Manual, Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, the USACE Jurisdictional Determination Form Instructional Guidebook, and other appropriate agency guidelines.

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BACKGROUND

Swift Current Energy (Swift Current) requested that Western EcoSystems Technology, Inc. (WEST) complete a delineation of potentially jurisdictional waters within the leased land proposed for development of the Black Diamond Solar Project (Project). This report describes the potentially jurisdictional wetland features that are present in the Project and the data used to identify those features.

STUDY AREA

The Project is located in Christian County, Illinois, north and west of Tovey, Illinois. State Road 104 bisects the project (Figure 1). The Project is located within all or portions of the following townships:

- Christian Township T13N R3W, Sections 17, 18, 19, 20, 7, 8, 5, 6
- Christian Township T14N R3W Sections 31, 32
- Sangamon Township T13N R4W Section 12

The Project falls within the Central Corn Belt Plains (54) Level III Ecoregion, which has historically been characterized by flat to rolling plains with a mosaic of bluestem prairie and oakhickory forest (Environmental Protection Agency 2017). The Project is located within the Town of Tovey-Clear Creek watershed, 071300070401.

The study area, which consists of parcels where land access was available within the Project Boundary, encompasses approximately 2,080 acres (ac; 841.7 hectares [ha]; Figure 2). The study area boundary hugs the edge of the forest/shrub fringe adjacent to Sangchris Lake. The wetland delineation did not extend past the study area boundary or into the forested buffer of Sangchris Lake.

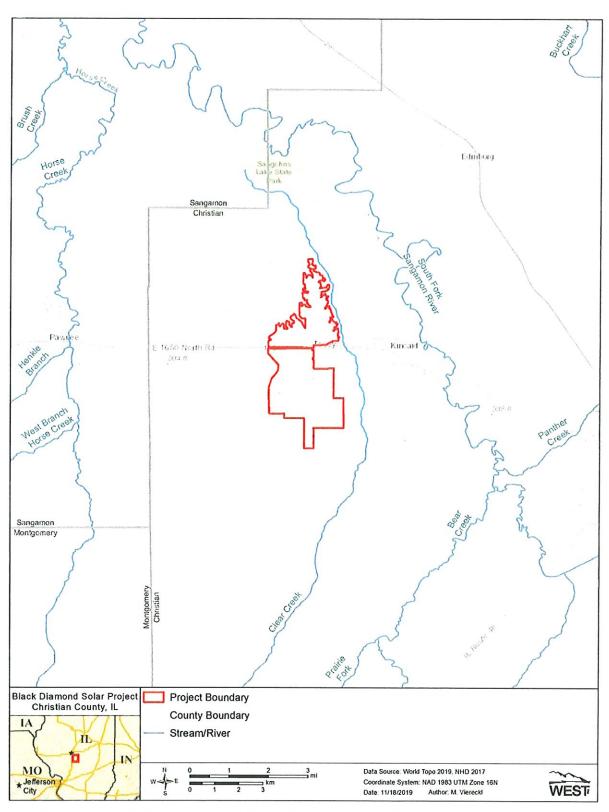


Figure 1. Overview of the proposed Black Diamond Solar Project area location in Christian County, Illinois.

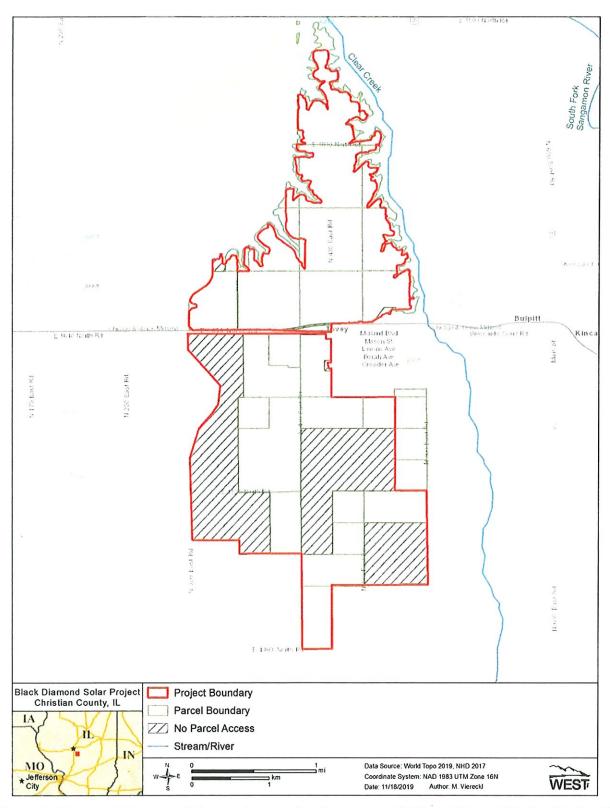


Figure 2. Topographic map of the study area for the proposed Black Diamond Solar Project in Christian County, Illinois.

METHODS

Wetland and Waterbody Survey

Desktop review and fieldwork were completed by seasoned ecologists who are trained in wetland delineation and plant identification. Prior to conducting fieldwork, WEST ecologists reviewed US Geological Survey (USGS) topographic maps, soil survey information from the US Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS), US Fish and Wildlife Service National Wetlands Inventory (NWI) maps, National Hydrography Dataset (NHD) mapping, and the Federal Emergency Management Agency's National Flood Hazard Layer Viewer for indications of wetland or waterbody presence. In the field, WEST ecologists used protocols established by the US Army Corps of Engineers (USACE) to assess the study area for features that meet the wetland or waterbody criteria. These features were delineated in accordance with the 1987 Corps of Engineers Wetlands Delineation Manual (USACE 1987) and additional information provided within the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (USACE 2010). The USACE manuals emphasize a three-parameter approach to identify wetlands, including the presence of wetland hydrology, hydrophytic vegetation, and hydric soils.

Hydrology

Wetland hydrology indicators provide evidence that an area is at least periodically saturated or inundated by water. Examples of hydrology indicators include surface water, saturation, watermarks, drift lines, water-borne sediment deposits, water-stained leaves, and drainage patterns (USACE 2010). If present, hydrology indicators were recorded at each data point.

Vegetation

Hydrophytic plants are adapted to wetland conditions. Plant species nomenclature and indicator status were assigned according to the Midwest regional sub-list of *The National Wetland Plant List* (USACE 2018). A species list was compiled for each data point and an assessment of the dominant species was made to determine if the sample plot supported wetland vegetation.

Soils

Hydric soils have developed under reducing conditions caused by prolonged and repeated saturation or inundation. Hydric soil characteristics include a variety of hydric soil indicators described in the regional supplement (USACE 2010). The soils at each data point were examined for hydric soil indicators by digging a soil pit at least 16.0 inches (40.6 centimeters) below the surface (unless prevented by rock/hardpan).

These methods were applied to establish the presence and extent of wetlands. The delineated wetlands were classified according to methodologies set forth in *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al. 1979).

Fieldwork for the Project was conducted from November 6 to November 8, 2019. Data point locations and wetland boundaries were recorded with an Arrow 100 Submeter Global

Positioning System (GPS) receiver. Ecologists were granted access to the majority of parcels within the study area. Any parcels within the study area not identified by Swift Current prior to the field survey were not accessed on November 6 - 8, 2019.

When potentially jurisdictional features were encountered in the study area, the boundaries of the features were recorded within the study area to aid in construction planning. All drainage features within the study area were reviewed to determine if they were Potential Waters of the US. Potential Waters of the US were identified by the presence of a definable bed and bank, ordinary high water mark, evidence of flow, surface connection to a Waters of the US, and/or presence of areas that met the USACE criteria for wetlands (USACE 2007).

SITE CONDITIONS

The Project is located on private land actively used for corn (*Zea mays*) and soybean (*Glycine max*) production. The Project spans both sides of IL Route 104 to the north and south. Sangchris Lake borders the northern border of the study area. The topography of the study area is mostly flat. Existing vegetation in the Project consists of grassy roadside vegetation, managed agricultural fields, forest bordering Sangchris Lake, and a grassy border between managed fields and the forested lake edge.

Climatic and hydrologic conditions at the Project were normal for the time of year. Springfield, IL, approximately 15 miles (mi; 24.1 kilometers [km]) northwest of the site, received a trace amount of precipitation and snowfall the week of the survey, according to month-to-date data in the daily climate report for Springfield. (National Oceanic and Atmospheric Administration 2019). Total rainfall during the previous month of October was 1.51 inches (in; 3.8 centimeter [cm]) greater than normal. A record daily snowfall of 2.3 in (5.8 cm) was recorded on October 31st, one week prior to the field survey.

RESULTS

Desktop Review

Soils

According to the USDA NRCS Web Soil Survey, 99.9% of the study area is underlain by hydric soils (Table 1; Figure 3). Ipava silt loam, 0 to 2 percent slopes, is the dominant soil type and is mapped over half of the Project area (Table 1; Figure 3).

Table 1. Soil type composition and hydric status of soils present within the Proposed Black Diamond Solar Project in Christian County, Illinois.

Map Unit Symbol	Map Unit Name	Acres in Project Area	Percent of Project Area ^a	Hydric Soil Rating ^b
43A	Ipava silt loam, 0 to 2 percent slopes	1,556.1	51.7%	Yes
50A	Virden silty clay loam, 0 to 2 percent slopes	875.2	29.1%	Yes
86B	Osco silt loam, 2 to 5 percent slopes	306.3	10.2%	Yes
705B	Buckhart silt loam, 2 to 5 percent slopes	104.2	3.5%	Yes
259C2	Assumption silt loam, 5 to 10 percent slopes, eroded	65.3	2.2%	Yes
45A	Denny silt loam, 0 to 2 percent slopes	38.9	1.3%	Yes
249A	Edinburg silty clay loam, 0 to 2 percent slopes	30.5	1.0%	Yes
244A	Hartsburg silty clay loam, 0 to 2 percent slopes	26.2	0.9%	Yes
675B	Greenbush silt loam, 2 to 5 percent slopes	4.4	0.1%	Yes
W	Water	2.7	0.1%	No
897C2	Bunkum-Atlas silt loams, 5 to 10 percent slopes, eroded	0.6	0.0%	No
Totals for	Area of Interest ^c	3,011.00	100.0%	

^a Soil composition generated from the USDA NRCS (2017a).

National Wetlands Inventory Wetlands and Waterways

A review of USGS topographic, NWI, and NHD sources indicated several emergent and forested wetlands and streams are mapped within the study area (Figure 4). Sangchris Lake is the largest waterbody mapped adjacent to the study area. When land access was granted, all mapped wetlands and waterways were investigated in the field to verify the presence of wetlands and streams in the study area. Mapped NWI wetlands located in the southwest portion of the study area could not be verified in the field due to lack of land access.

^b Hydric status as indicated by the National Hydric Soils List (USDA NRCS 2017b).

^c Totals may not be exactly equal the sum of values in columns due to rounding.

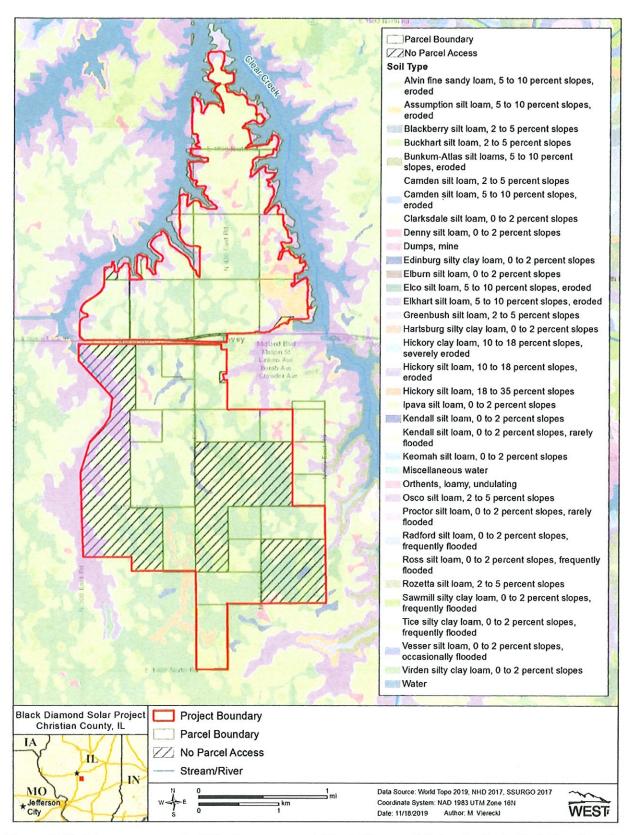


Figure 3. Soil types mapped within the proposed Black Diamond Solar Project, Christian County, Illinois.

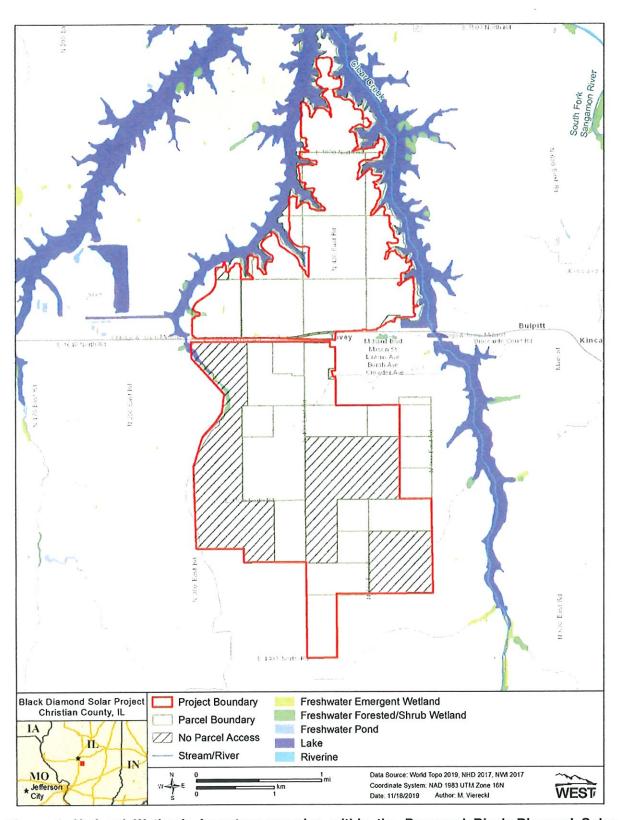


Figure 4. National Wetlands Inventory mapping within the Proposed Black Diamond Solar Project area, Christian County, Illinois.

Field Delineation

In total, one waterway and eleven wetlands were field-verified and delineated within the study area. All delineated wetlands met all three indicators necessary for a positive wetland determination. Wetland data forms and photographs are provided in Appendix A.

Streams

Stream 1 is a grass-lined swale with a defined bed, bank, and ordinary high water mark (OHWM). It is located in the southwest Project north of Route 104. Stream 1 is piped under a paved, private road where it drains adjacent agricultural fields to Sangchris Lake about 250 feet (ft; 76.2 meter [m]) north of the road. A segment of the stream is piped underground in a reed canary grass (*Phalaris arundinacea*) — dominated field north of the road. The dominant substrate is silt and clay with some sparse grass and vegetation in the channel. The streambanks are dominated by *Phalaris arundinacea* and Pennsylvania smartweed (*Persicaria pensylvanica*). Stream 1 exhibited intermittent flow and is classified as a riverine intermittent, seasonally flooded, excavated waterway (R4SBCx). Approximately 178.3 linear ft of Stream 1 flows in the study area. The OHWM of Stream 1 is approximately 3 ft wide and six in deep.

Wetlands

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Eleven wetlands were delineated within the study area, including eight emergent wetlands, three farmed emergent wetlands, and one forested wetland (Table 2, Figure 5). The majority of delineated wetlands are low, *Phalaris*-dominated grassy areas bordering adjacent agricultural fields and the forested border of Sangchris Lake. These wetlands often extend outside of the study area and drain to Sangchris Lake. In total, 20 data points were sampled in the Project (Appendix A).

Emergent Wetlands: Wetlands 1 through 5, Wetlands 8 and 11

Seven emergent, seasonally flooded wetlands classified as PEM1C were delineated in the study area. Wetland 1 and 5 are mapped as PFO1Ah, Palustrine Forested, Broad-Leaved Deciduous, Temporarily Flooded, Diked/Impounded wetlands in the NWI, but are more indicative of emergent, temporarily flooded wetlands (PEM1C) based on field observations (Table 2; Figure 6). All wetlands are low, grassy areas dominated by *P. arundinacea* and exhibited the hydric soil indicator redox dark surface. Hydrology indicators included drainage patterns, geomorphic position, oxidized rhizospheres on living roots, and high water table. All emergent wetlands extend outside the study area and drain to Sangchris Lake.

Farmed Emergent Wetlands: Wetlands 6, 9, and 10.

Wetlands 6, 9 and 10 are all farmed wetlands located in depressions within active, cultivated agricultural fields (Figures 6 - 8). All three wetlands are disturbed/atypical due to crop production. Surface water was present at each wetland and all wetlands met indicators for hydrology and hydric soils. Wetlands 9 and 11 were dominated by hydrophytic vegetation such as roughfruit amaranth (*Amaranthus tuberculatus*), barnyard grass (*Echinochloa crus-galli*), and rough cocklebur (*Xanthium stumarium*). Hydrophytic vegetation was not present at Wetland 6 despite hydric soil and wetland hydrology indicators; therefore, the procedure described under

"problematic hydrophytic vegetation" in the Midwest regional supplement (USACE 2010) was used to determine whether hydrophytic vegetation would likely be present under undisturbed conditions (data point DP6w, Appendix A).

Forested Wetland: Wetland 7

One wetland, Wetland 7, was delineated and classified as a forested, temporarily flooded, PFO1A wetland (Table 2; Figure 6). The herbaceous stratum of Wetland 7 is dominated by *P. arundinacea*, but trees such as hackberry (*Celtis occidentalis*) and honey locust (*Gleditsia triacanthos*) were present and comprise 40% absolute cover of the survey plot. Surface water and a water table 16 in (40.6 cm) deep were observed at Wetland 7.

Table 2. Characteristics of wetlands delineated within the proposed Black Diamond Solar Project study area.

Wetland Number	Data Point	Туре	Delineated Acreage	Waters of the US?1
Wetland 1	DP 1w	PEM1C	0.68	Yes
Wetland 2	DP 2w	PEM1C	0.79	Yes
Wetland 3	DP 3w	PEM1C	0.08	Yes
Wetland 4	DP 4w	PEM1C	0.35	Yes
Wetland 5	DP 5w	PEM1C	0.06	Yes
Wetland 6	DP 6w	PEM1Af	1.13	No
Wetland 7	DP 7w	PFO1C	0.14	Yes
Wetland 8	DP 8w	PEM1C	0.11	Yes
Wetland 9	DP 9w	PEM1Af	1.00	No
Wetland 10	DP 10w	PEM1Af	1.29	No
Wetland 11	DP 11w	PEM1C	0.12	Yes
Total			5.74	

PEM1C = Palustrine emergent persistent wetland, seasonally flooded; PEM1Af = Palustrine emergent persistent wetland, temporarily flooded, farmed; PFO1C = Palustrine forested, broad-leaved deciduous, seasonally flooded.

Uplands

In total, nine data points were recorded in sample plots that lacked wetland indicators necessary for a positive wetland determination. Uplands in the study area were primarily vegetated by agricultural row crops (*Zea mays* and *Glycine max*), and upland grasses and forbs including tall fescue (*Schedonorus arundinaceus*) and goldenrod (*Solidago* sp). Most upload points were paired with a corresponding wetland point to delineate the wetland boundary. DP12u was sampled in a NWI-mapped R4SBC riverine wetland, but did not support hydric soils.

¹ Determination is based on best judgment and guidelines set forth by USACE. The final determination of jurisdictional waters is ultimately made by the appropriate regulatory staff of USACE.

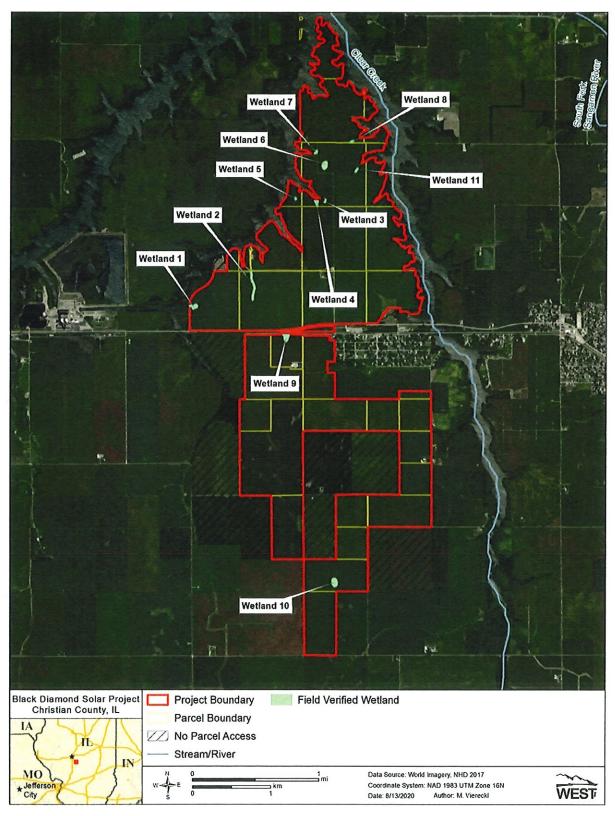


Figure 5. Overview of field-verified streams and wetlands intersecting the Proposed Black Diamond Solar Project study area.

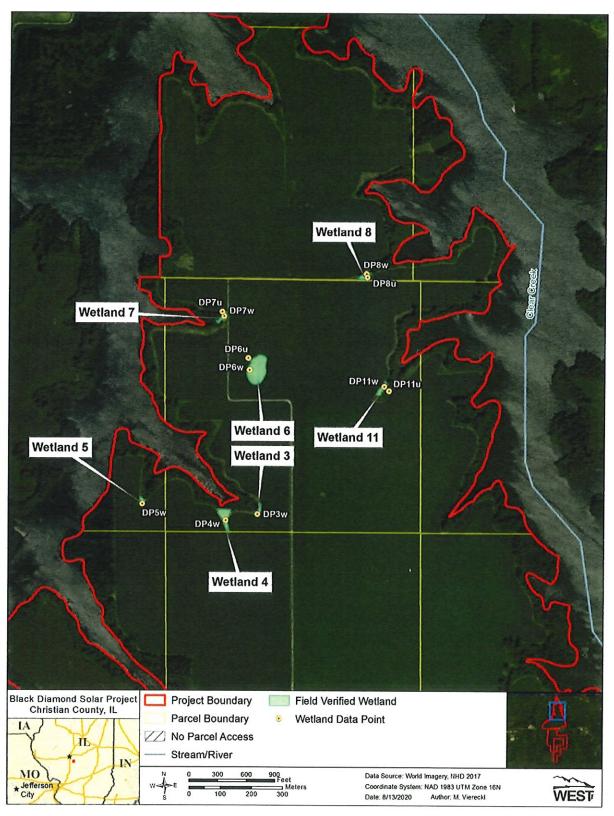


Figure 6. Detailed view of field-verified wetlands at the Proposed Black Diamond Solar Project study area.

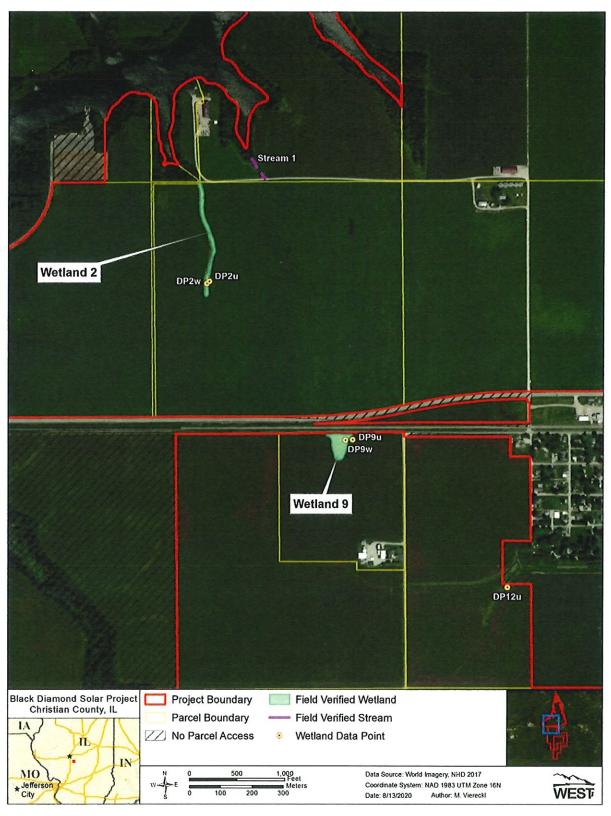


Figure 7. Detailed view of field-verified wetlands at the Proposed Black Diamond Solar Project study area.



Figure 8. Detailed view of field-verified wetlands at the Proposed Black Diamond Solar Project study area.

CONCLUSIONS

Although much of the study area is underlain by hydric soil types (Table 1), nearly all land within the Project has been converted to agricultural use through extensive drainage alteration and tile installation. Land in the study area drains to the adjacent Sanchris Lake, and the forested/shrub border of the lake supports wetlands, including some that extend into the study area. In total, 11 wetlands and one stream were delineated in the study area.

Under the new WOTUS definition that took effect June 22, 2020¹, standing bodies of open water that contribute surface water flow to a traditionally navigable water in a typical year, either directly or through one or more tributaries or Waters of the US, are considered jurisdictional Waters of the US. Adjacent wetlands must have surface water connection to WOTUS, be in the flood zone of WOTUS, or be separated by a natural structure from WOTUS. Non-jurisdictional waters include ephemeral features, groundwater supported waters, farm and roadside ditches (if they do not replace natural waterways), prior converted croplands, artificially irrigated areas, storm water features, among others (USACE and US Environmental Protection Agency [USEPA] 2020).

Based on WEST's interpretation of the new WOTUS definition, eight of the 11 delineated wetlands and Stream 1 are likely to be considered jurisdictional Waters of the US, due to their proximity and surface connection to Sangchris Lake, a WOTUS. Sangchris Lake empties to the Sangamon River, a traditionally navigable waterway, via the South Fork Sangamon River (USACE 2007). In contrast, Wetlands 6, 9, and 10 are isolated wetland depressions in agriculture fields, and are unlikely to be considered jurisdictional Waters of the US.

At this time, final project design is not available in order to calculate wetland impacts; however, dredge or fill materials placed in WOTUS will require a Section 404 permit from the USACE. The USACE nationwide permit program provides an expedited permit process for specific activities that result in limited impacts to WOTUS, including wetlands. A solar facility may qualify for Nationwide permit 51 – Land-based renewal energy projects if impacts are less than 0.5 ac and less than 300 linear ft of stream. NWP 51 requires notification to USACE if impacts exceed 0.1 ac. NWP 51 directs users to apply NWP 12 – Utility Lines or NWP 14 – Linear Transportation if only these infrastructure components will impact WOTUS. NWP 12 may be used for utility lines and associated infrastructure such as substations, poles, or access roads. This permit has a 0.5 acre limit, with notification to USACE required for mechanized clearing in forested wetland, crossings exceeding 500 ft, lines placed parallel to stream beds, impacts exceeding 0.1 ac, permanent access roads above grade (located in WOTUS for a distance greater than 500 ft), or permanent access roads with impervious materials. NWP 12 considers each waterbody crossing a single and complete project, though this determination may be subject to interpretation of the district engineer depending on characteristics of the relevant

¹ 85 Federal Register 22250 (April 21, 2020). As of the date on this report, numerous lawsuits challenging the new rule are pending (King and Northey 2020), which could result in a temporary stay of the new WOTUS rule while litigation proceeds. If the new rule is revoked, jurisdictional determinations may change.

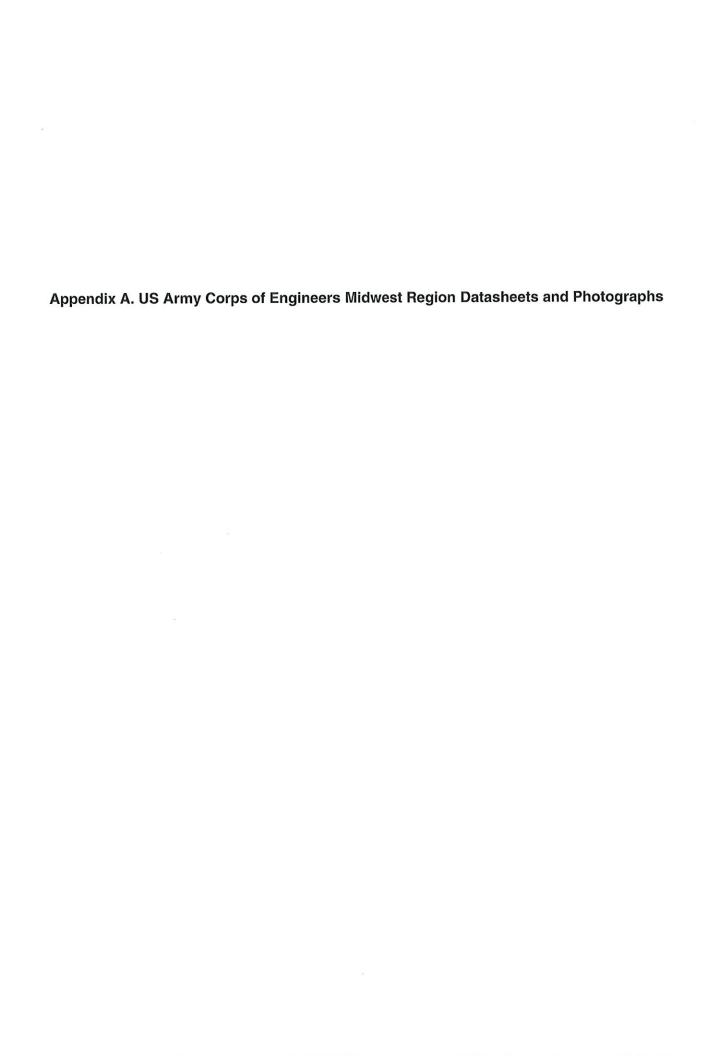
waters and distances between crossings. NWP 14 is typically used for roads that are not specifically required for construction, access, or ongoing maintenance of utility lines or substations. Similar authorization and notification thresholds exist between NWP 12 and 14, with two notable differences: any wetland impact requires notification under NWP 14, and stream channel impacts are limited to 300 linear ft for Section 401 certification. All NWPs have 32 General Permit conditions that should be reviewed as part of the permit strategy planning (USACE 2017).

In addition to the federal USACE regulations, the state of Illinois has a variety of laws and acts that may apply to wetland and waterbody impacts, including Clean Water Act Section 401 Water Quality Certification which is overseen by the Illinois EPA. Illinois EPA has granted conditional Water Quality Certification for all USACE NWPs. If a Pre-Construction Notification is required, a joint permit application will need to be submitted to ensure coverage across all regulatory agencies, including the Illinois EPA and Illinois Department of Natural Resources (USACE 2011).

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Project/Site: Black Diamond		Cit	y/County:	Christian	Sampling Date: 06-Nov-19
Applicant/Owner: Swift Current				State:	Illinois Sampling Point: DP1w
Investigator(s): ES, JW		5	Section, Town	ship, Range:	S 7 T 13N R 3W
Landform (hillslope, terrace, etc.): Lowl	land		1		concave, convex, none): concave
				00 477061	Datum: WGS 84
Slope: 0.0% / 0.0 ° Lat.:			Long.: -	89.477001	
Soll Map Unit Name: _ Ipava silt loam		Yes (e) No O		NWI classification: PEMIC
Are climatic/hydrologic conditions on the				(3)	oplain in Remarks.)
Are Vegetation, Soil	, or Hydrology si	gnificantly dis	turbed?	Are "No	ormal Circumstances" present? Yes No
Ve Vegetation , Soil	, or Hydrology 🔲 na	aturally proble	ematic?	(If need	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - A	ttach site map shov	ving samp	oling poin	t location	ns, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No O				
	Yes No		Is the	Sampled A	
Hydric Soil Present?	Yes No O		withi	n a Wetland	Yes • No O
Wetland Hydrology Present?	TES © NO C				
Remarks:					
VEGETATION - Use scie	entific names of plan	ts.	Dominant Species?		
			Rel.Strat.		Dominance Test worksheet:
Tree Stratum (Plot size: 30ft)	% Cover	Cover	Status	Number of Dominant Species
1		0	0.0%		That are OBL, FACW, or FAC:
2.		0	0.0%		Total Number of Dominant
3 4.		0	0.0%		Species Across All Strata: 1 (B)
5.		0	0.0%		Percent of dominant Species
v		0	= Total Cove	er	That Are OBL, FACW, or FAC: 100.0% (A/B)
Saoling/Shrub Stratum (Plot size: 15	Sft)	,			Prevalence Index worksheet:
1.		0_	0.0%		Total % Cover of: Multiply by:
2		0	0.0%		OBL species 0 x 1 = 0
3		0	0.0%		FACW species 100 x 2 = 200
4		0	0.0%		FAC species 0 x 3 = 0
5.		. 0	0.0%		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5ft	}	0	= Total Cove	2r	UPL species 0 x 5 = 0
1 Phalaris arundinacea		99	✔ 99.0%	FACW	Column Totals: 100 (A) 200 (B)
2. Solidago gigantea		1	1.0%	FACW	Prevalence Index = B/A = 2.000
3.		0	0.0%		Hydrophytic Vegetation Indicators:
4		00	0.0%		✓ 1 - Rapid Test for Hydrologic Vegetation
5		0	0.0%		✓ 2 - Dominance Test is > 50%
6.		0	0.0%		✓ 3 - Prevalence Index is ≤3.0 1
7. 8.		0	0.0%		4 - Morphological Adaptations 1 (Provide supporting
9.		0	0.0%		data in Remarks or on a separate sheet)
10.		0	0.0%		Problematic Hydrophytic Vegetation 1 (Explain)
		100	= Total Cov	er	Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 15f	<u>t</u>)	_			be present, unless disturbed or problematic.
1		0	0.0%		Hydrophytic
2		0	0.0%		Vegetation V 0 N- 0
		0	= Total Cove	er	Present? Yes No
Demarks /Include shote acraba-	e hara or on a consesta el	noot \			
Remarks: (Include photo number	s nere or on a separate sr	icet.)			

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

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Hydric Soil Indicators: Histosol (AL) Histoc Epipedon (A2) Black Histic (A3) Hydrogen Suifide (A4) Strapped Matrix (S6) Hydrogen Suifide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Redox Depressions (F8) Restrictive Layer (if observed): Type: Depth (inches): Hydrocopy Indicators: Primary Indicators finnimum of one is required: check all that apoly) High Water Table (A2) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4)	Texture Remarks Clay Clay Clay Clay dion: PL=Pore Lining, M=Matrix, dicators for Problematic Hydric Soils 3: Coast Prairie Redox (A16) Dark Surface (S7) Iron Manganese Masses (F12) Very Shallow Dark Surface (IF12)
Color (moist) % Color (moist) % Type Loc2	Clay Clay Clay Clay Clay Clay Jon: PL=Pore Lining, M=Matrix, dicators for Problematic Hydric Soils 3: Coast Prairie Redox (A16) Dark Surface (S7) Iron Manganese Masses (F12) Very Shallow Dark Surface (TF12)
Color (moist) 9/6 Color (moist) 9/6 Type Loc -4	Clay Clay Clay Clay Clay Clay Jon: PL=Pore Lining, M=Matrix, dicators for Problematic Hydric Soils 3: Coast Prairie Redox (A16) Dark Surface (S7) Iron Manganese Masses (F12) Very Shallow Dark Surface (TF12)
4-24	Clay Clay Clay Clay Jon: PL=Pore Lining, M=Matrix, dicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Dark Surface (S7) Iron Manganese Masses (F12) Very Shallow Dark Surface (TF12)
Hydrocape Surface (A12) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Muck Mineral (S1) Seather Hydrocape Surface (A12) Sandy Muck Mineral (S1) Seather Hydrocape Surface (A12) Sandy Muck Mineral (S1) Straphed Matrix (F3) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Straphed Matrix (F3) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Straphed Matrix (F3) Depleted Below Dark Surface (F7) Sandy Muck Mineral (S1) Straphed Matrix (F3) Depleted Below Dark Surface (F7) Sandy Muck Mineral (S1) Straphed Matrix (F3) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Straphed Matrix (F3) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Straphed Matrix (F3) Depleted Dark Surface (F7) Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apoly) Wetland Hydrology Indicators: Primary Indicators (Minimum of one is required: check all that apoly) Wetland Hydrology Indicators: Primary Indicators (Minimum of one is required: check all that apoly) Wetland Hydrology Indicators: Primary Indicators (Minimum of one is required: check all that apoly) Wetland Hydrology Indicators: Primary Indicators (Minimum of one is required: check all that apoly) Wetland Hydrology Indicators: Primary Indicators (Minimum of one is required: check all that apoly) Wetland Hydrology Indicators: Primary Indicators (Minimum of one is required: check all that apoly) Worker Stained Leaves (B9) Apualic Fauna (B13) True Aquatic Plants (B14) Hydrogen Surf de Odor (C1) Sedment Deposits (B2) Drift Deposits (B3)	Clay Jon: PL=Pore Lining, M=Matrix. dicators for Problematic Hydric Soils 3: Coast Prairie Redox (A16) Dark Surface (S7) Iron Manganese Masses (F12) Very Shallow Dark Surface (TF12)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Histosol (AI)	ion: PL=Pore Lining, M=Matrix. dicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Dark Surface (S7) Iron Manganese Masses (F12) Very Shallow Dark Surface (TF12)
Hydric Soil Indicators: Histosol (AL) Histosol (AZ) Sandy Redox (SS) Black Histic (A3) Hydrogen Suifide (A4) Strapped Matrix (S6) Hydrogen Suifide (A4) Stratified Layers (AS) Loamy Mucky Mineral (F1) Stratified Layers (AS) Loamy Mucky Mineral (F1) Loamy Geyed Matrix (F2) Depleted Below Dark Surface (A11) First Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Redox Dark Surface (F7) Sandy Muck Mineral (S1) Restrictive Layer (if observed): Type: Depth (inches): Hydrology Wetland Hydrology Indicators: Primary Indicators fminimum of one is required: check all that apolicy Stratic Variance (A1) High Water Table (A2) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4)	dicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Dark Surface (S7) Iron Manganese Masses (F12) Very Shallow Dark Surface (TF12)
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Hydric Soil Indicators: Histosol (AI) Histosol (AZ) Black Histic Epipedon (AZ) Black Histic (A3) Hydrogen Sulfide (A4) Strabified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sondy Muck Mineral (F1) Sondy Muck Mineral (F2) Depleted Below Dark Surface (A11) Feedox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sondy Muck Mineral (S1) Sondy Muck Mineral (S1) Estrictive Layer (if observed): Type: Depth (inches): Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apoly) Wetland Hydrology Indicators: Primary Indicators (Minimum of one is required; check all that apoly) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Stained Leaves (B9) High Water Table (A2) Soldinent Deposits (B2) Dorift Deposits (B3) Presence of Reduced Iron (C4)	dicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Dark Surface (S7) Iron Manganese Masses (F12) Very Shallow Dark Surface (TF12)
Hydric Soil Indicators: Histosol (AL) Histoc Epipedon (A2) Black Histic (A3) Hydrogen Suifide (A4) Strapped Matrix (S6) Hydrogen Suifide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Redox Depressions (F8) Restrictive Layer (if observed): Type: Depth (inches): Hydrocopy Indicators: Primary Indicators finnimum of one is required: check all that apoly) High Water Table (A2) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4)	Coast Prairie Redox (A16) Dark Surface (S7) Iron Manganese Masses (F12) Very Shallow Dark Surface (TF12)
Histosol (AI) Histosol (AI) Histo Epipedon (A2) Black Histo (A3) Black Histo (A3) Hydrogen Suifide (A4) Strabfied Layers (A5) Loamy Mucky Mineral (F1) Strabfied Layers (A5) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F2) Depleted Matrix (F3) High Water Appleted Matrix (F3) Redox Dark Surface (F6) Thick Dark Surface (F7) Sandy Muck Mineral (S1) Redox Depressions (F8) Redox Depressions (F8) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hyd Remarks: Re	Coast Prairie Redox (A16) Dark Surface (S7) Iron Manganese Masses (F12) Very Shallow Dark Surface (TF12)
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Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Matrix (F3) Thick Dark Surface (A11) Sandy Muck Mineral (S1) Sandy Muck Mineral (S1) Sandy Muck Mineral (S1) Set m Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hyd Wetland Hydrology Indicators: Primary Indicators fininium of one is required: check all that apply Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Redox Depressions (F8) Hyd Redox Depressions (F8) Hyd Water Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4)	Very Shallow Dark Surface (TF12)
Stratified Layers (AS) Loamy Geyed Matrix (F2) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) S om Mucky Peat or Peat (S3) Redox Dapressions (F8) Redox Dapressions (F8) Remarks: Property Page P	
Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Muck Mineral (S1) Somethick Dark Surface (F7) Sandy Muck Mineral (S1) Somethick Dark Surface (F7) Redox Dapressions (F8) Hydrology Indicators (F8) Remarks: Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apoly) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Saturation (A3) True Aquatic Faints (B14) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Somethick Depleted Dark Surface (F7) Somethick Depleted Dark Surface (F7) Redox Depressions (F8) Restrictive Layer (if observed): Type: Depth (inches): Hyd Remarks: Hyd Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apoly) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4)	Other (Explain in Remarks)
Thick Dark Surface (A12) Sandy Muck Mineral (S1) S cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (inches): Hyd Hyd Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Y Surface Water (A1) High Water Table (A2) Saturation (A3) Water Stained Leaves (B9) Hydrogen Surface (B14) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4)	
Sandy Muck Mineral (51) Depeted Dark Surface (77) 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hyd Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Faints (B14) Water Marks (B1) Hydrogen Surfade Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4)	
S cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hydronory Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) True Aquatic Fauna (B13) Water Marks (B1) Water Marks (B1) Hydrogen Surfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4)	Indicators of hydrophytic vegetation and wetland hydrology must be present,
Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hyd Hyd Hyd Hyd Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) True Aquatic Fauna (B13) Water Marks (B1) Hydrogen Suff de Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4)	unless disturbed or problematic.
Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) True Aquatic Fauna (B13) Water Marks (B1) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4)	-
Depth (inches): Hyd Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) True Aquatic Fauna (B13) Water Marks (B1) Hydrogen Surfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Sufface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Weter Marks (B3) Presence of Reduced Iron (C4)	ric Soil Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apoly) Surface Water (A1)	
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aquatic Fauna (B13) True Aquatic Fants (B14) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Ø Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4)	
✓ Surface Water (A1) Water Stained Leaves (B9) Aquatic Fauna (B13) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Water Marks (B1) Whydrogen Sulfide Odor (C1) Presence of Reduced Iron (C4)	
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Suifide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	Secondary Indicators (minimum of two required
Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Suif de Odor (C1) Sediment Deposits (B2) ✓ Oxidized Rhizospheres on Living Roots (C3) □ Drift Deposits (B3) □ Presence of Reduced Iron (C4)	Surface Soil Cracks (86)
Water Marks (B1) ☐ Hydrogen Suffide Odor (C1) Sediment Deposits (B2) ☑ Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) ☐ Presence of Reduced Iron (C4)	Drainage Patterns (B10)
Water Marks (B1) Hydrogen Suif de Odor (C1) Sediment Deposits (B2) ✓ Oxidized Rhizospheres on Living Roots (C3) □ Drift Deposits (B3) □ Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
	Stunted or Stressed Plants (D1)
A'gal Mat or Crust (84) Recent Iron Reduction in Tilled Soils (C6)	✓ Geomorphic Position (D2)
Iron Deposits (B5)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (87) Gauge or Well Data (D9)	The nestra rest (e.g.
-	
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
Field Observations:	
Yes (a) No C South State of	
0 6	
Water Table Present? Yes No Depth (inches):	drology Present? Yes No
Saturation Present Voc () No () Donth (lachas)	arology Presentr 165 0 110 0
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if av	ailable:
Remarks:	

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Lat/Northing:

Description:

-racing

Unentation:

-racing

Lat/Northing:



Photo File DSCN8457.JPG Orientation: -facing
LatLong or UTM: Long/Easting: Lat/Northing:
Description:

ject/Site: Black Diamond		Gt	y/County: Christian	Sampling Date: 06-Nov-19
olicant/Owner: Swift Current			State	e: Illinois Sampling Point: DP1u
estigator(s): ES, JW			Section, Township, Rang	e: S 7 T 13N R 3W
kdform (hillslope, terrace, etc.): Lowla	and		Local relief	(concave, convex, none): concave
pe: 0.0% / 0.0 ° Lat.:	39.593264		Long.: -89.47701	1 Datum: WGS 84
Map Unit Name: Ipava silt loam.				NWI classification: None
climatic/hydrologic conditions on the			No O (If no,	explain in Remarks.)
Vegetation , Soil	, or Hydrology	significantly dis		Normal Circumstances" present? Yes • No •
	10.11/2.009/	•		
Vegetation , Soil	, or Hydrology	naturally proble	emaucy (if ne	eeded, explain any answers in Remarks.)
IMMARY OF FINDINGS - A	ttach site map sh	owing sam	oling point location	ons, transects, important features, etc.
drophytic Vegetation Present?	Yes O No 💿			
dric Soil Present?	Yes O No 💿		Is the Sampled within a Wetlan	
etland Hydrology Present?	Yes O No 💿		Widin a Wedai	Tes O No G
Remarks:				
terrarks.				
EGETATION - Use scie	ntific names of pla	ants.	Dominant	
(2)			Rel.Strat. Indicato	
Tree Stratum (Plot size: 30ft		% Cover		Number of Dominant Species
1		0	0.0%	That are OBL, FACW, or FAC: 1 (A)
2. 3.		0	0.0%	Total Number of Dominant
		0	0.0%	Species Across All Strata: 2(B)
5.		0	0.0%	Percent of dominant Species
		0	= Total Cover	That Are OBL, FACW, or FAC: 50.0% (A/8)
Sapling/Shrub Stratum (Plot size: 15	ít)			Prevalence Index worksheet:
1		0	0.0%	Total % Cover of: Multiply by:
2.		0	0.0%	OBL species 0 x 1 = 0
3		0	0.0%	FACW species 32 x 2 = 64
4		0	0.0%	FAC species 0 x 3 = 0
5.		0	0.0%	FACU species 2 x 4 = 8
Herb Stratum (Plot size: 5ft)	0	= Total Cover	UPL species 66 x 5 = 330
1 Elymus virginicus		2	2.0% FACW	Column Totals: 100 (A) 402 (B)
2. Phalaris arundinacea		30	▼ 30.0% FACW	Prevalence Index = B/A = 4.020
3. Solidago altissima		2	2.0% FACU	Hydrophytic Vegetation Indicators:
4.Zea mays		66	₹ 66.0% UPL	1 - Rapid Test for Hydrologic Vegetation
5		0	0.0%	2 - Dominance Test is > 50%
6		0	0.0%	3 - Prevalence Index is ≤3.0 1
7		0	0.0%	4 - Morphological Adaptations 1 (Provide supporting
8.		0	0.0%	data in Remarks or on a separate sheet)
9.		0	0.0%	Problematic Hydrophytic Vegetation 1 (Explain)
10		0	0.0%	1 Indicators of hydric soil and wetland hydrology must
)	100	= Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 151)		0	0.0%	
Woody Vine Stratum (Plot size: 15th 1.			0.0%	Hydrophytic Vegetation
Woody Vine Stratum (Plot size: 15ft 1. 2.		0		
1,		0	= Total Cover	Present? Yes No 💿

	ption: (Des	cribe to ti	ne aeptn n	eegea to	aocument					
Depth		Matrix	•			ox Feat	ıres		-	2000
(inches)	Color (n	noist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
0-12	10YR	3/2	100						Sity Clay Loam	
12-18	10YR	3/2	60	7.5YR	3/3	. 10	<u> </u>	М	Silty Clay Loam	
Type: C=Conc	entration D	-Desisting	DM=Radur	ed Matrix	CS=Covere	ed or Coat	ted Sand Gr	ains.	2Location: PL=Pore Lining.	M=Matrix.
Hydric Soil I		Deprecion	, Ki I – Kedak	ed i isting	25 2572				Indicators for Probler	
Histosol (A				Sar	ndy Gleyed	Matrix (S	4)		Coast Prairie Redox (2000
-	edon (A2)			☐ Sar	ndy Redox (SS)			Dark Surface (S7)	Aloj
Black Histi	c (A3)			☐ Stri	ipped Matri	x (S6)			☐ Iron Manganese Mas	sas (F12)
Hydrogen	Sulfide (A4)			Loa	amy Mucky	Mineral (I	F1)		Very Shallow Dark Su	
Stratified I	Layers (A5)			Loa	amy Gleyed	Matrix (F	2)		_ '	
2 cm Mucl				De	pleted Matr	ix (F3)			Other (Explain in Ren	narks)
Depleted I	Below Dark S	urface (A1	1)	P	dox Dark Su		5)			
	k Surface (A1			1	pleted Dark				3 Indicators of hydrophy	tic vegetation and
Sandy Mu	ck Mineral (S	1)		Rec	dox Depres	sions (F8))		wetland hydrology	must be present,
5 cm Mud	ky Peat or Pe	at (S3)							unless disturbed o	r problematic.
Restrictive La	ayer (if obse	erved):								
Type:										
									Hydric Soil Present?	Yes O No 💿
Depth (incl Remarks:	hes):								Hydric Soil Present?	Yes No 🖲
Depth (incl	hes):								Hydric Soil Present?	Yes No 🖲
Depth (incl									Hydric Soil Present?	Yes O No 🖲
Depth (incl Remarks: HYDROLO Wetland Hyd	OGY Irology India									
Depth (incl Remarks:	OGY Irology India		is required:						Secondary Indicat	ors (nitrimum of two required
Depth (incl Remarks: HYDROLO Wetland Hyd	OGY Irology India ators (minimu		is required:	<u> </u>	Water-Stain		s (B9)		Secondary Indicat	ors (ninimum of two required acks (86)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface W	OGY Irology India ators (minimu		is required:		Water-Stain Aquatic Fau	na (B13)			Secondary Indicat Surface Soil C	ors (minimum of two required acks (86) erns (810)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface W	DGY Irology India ators (minimu Vater (A1) er Table (A2)		is required:		Water-Stain Aquatic Fau True Aquati	na (B13) c Plants (B14)		Secondary Indicat Surface Soil C Drainage Patt Dry Season W	ors fininimum of two required acks (86) erns (810) ater Table (C2)
Depth (indicated in the control of t	OGY Irology India ators (minimu /ater (A1) er Table (A2) n (A3) rks (B1)	m of one	is required:		Water-Stain Aquatic Fau True Aquati Hydrogen S	na (B13) c Plants (ulf:de Od	B14) or (C1)		Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro	ors (nitrimum of two required acks (86) erns (810) ater Table (C2) ws (C8)
Depth (indicated in the control of t	OGY Irology India stors (minimu /ater (A1) er Table (A2) n (A3) rks (B1) Deposts (B2	m of one	is required:		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh	na (B13) c Plants (ulfide Ode izosphere	B14) or (C1) es on Living	Roots (C3)	Secondary Indicat Surface Soi C Drainage Patti Dry Season W Crayfish Burro Saturation Vis	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indice Surface W High Wat Saturation Water Ma Sediment Drift Depe	DGY Inclogy India stors (minimulators (minimulators) rater (1able (A2) n (A3) rks (B1) Deposats (B2 os'ts (B3)	m of one	is required:		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of	na (B13) c Plants (i ulfide Odi izosphere Reduced	B14) or (C1) es on Living Iron (C4)		Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str	ors fininimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (O1)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indice Surface W High Watur Water Ma Sediment Drift Depr Algal Mat	PIGY Intology India Intors (minimu Inter (AL) In (A3) In (A3) In (A5) In (B1) In (B3) In (B3) In (B4)	m of one	is required:		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron	na (B13) c Plants (i ulfide Odi izosphere Reduced Reductio	B14) or (C1) es on Living Iron (C4) en in Tilled S		Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (O1) ostion (O2)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Dept Aigal Mat Iron Depo	POGY Irology India Irology India Irology India Irology India Irology India Irology India Irology Irolo	m of one	1		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (I ulfide Odi izosphere Reduced Reductio Surface (C	B14) or (C1) is on Living Iron (C4) in in Tilled S		Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (O1) ostion (O2)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface W High Wat Saturation Water Ma Sediment Drift Depth Aigal Mat Iron Depth	PGY Irology India Itors (minimu Vater (A1) er Table (A2) n (A3) Deposits (B2) or Crust (B4) osts (B5) in Visible on A	on of one	gery (87)		Water-Stain Aquatic Fau Frue Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (I ulfide Odi izosphere Reduced Reductio Surface (C	B14) or (C1) es on Living Iron (C4) on in Tilled S (7) (D9)		Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (O1) ostion (O2)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface W High Wat Saturation Water Ma Sediment Drift Depth Aigal Mat Iron Depth	POGY Irology India Irology India Irology India Irology India Irology India Irology India Irology Irolo	on of one	gery (87)		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (I ulfide Odi izosphere Reduced Reductio Surface (C	B14) or (C1) es on Living Iron (C4) on in Tilled S (7) (D9)		Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (O1) ostion (O2)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface W High Wat Saturation Water Ma Sediment Drift Depth Aigal Mat Iron Depth	PIGY irology India stors (minimu vater (A1) er Table (A2) n (A3) rks (B1) Deposts (B2) osts (B3) or Crust (B4) psits (B5) en Visible on A Vegetated Co)) Aerial Imag ncave Suri	gery (87) face (88)		Water-Stain Aquatic Fau Frue Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (I ulfide Odi izosphere Reduced Reductio Surface (C	B14) or (C1) es on Living Iron (C4) on in Tilled S (7) (D9)		Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (O1) ostion (O2)
Pepth (indicated in the control of t	PIGY irology India ators (minimu vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) or Crust (B4) soits (B5) en Visible on A Vegetated Co	on of one	gery (87) face (88)		Water-Stain Aquatic Fau Frue Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (i uifide Odi izosphere Reduced Reductio Surface (C lell Data (ain in Ren	B14) or (C1) es on Living Iron (C4) on in Tilled S (7) (D9)		Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (O1) ostion (O2)
Pepth (indicated in the control of t	PIGY irology India stors (minimu vater (A1) er Table (A2) n (A3) rks (B1) Deposts (B2) or Crust (B4) posts (B5) en Visible on A Vegetated Co vations:) Aerial Imag	pery (B7) face (BS)		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl Depth (inc	na (B13) c Plants (i uifide Odr izosphere Reduced Reductio Surface (C lell Data (lell Data (ches):	B14) or (C1) es on Living Iron (C4) on in Tilled S (7) (D9)		Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2) est (D5)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface W High Water Ma Sediment Vater Ma Iron Dept Inundatio Sparsely Field Observ Surface Water Water Table F	PIGY irology India ators (minimu vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) or Crust (B4) posits (B5) en Visible on A Vegetated Co rations: r Present?	on of one	gery (B7) face (BS)		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl Depth (inc	na (B13) c Plants (i c Plants (i c Plants (i izosphere Reduced Reductio Surface (C fell Data (i ches):	B14) or (C1) es on Living Iron (C4) on in Tilled S (7) (D9)	iois (C6)	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (O1) ostion (O2)
Depth (indicates capital control of the control of	irology India stors (minimu vater (A1) er Table (A2) n (A3) rks (B1) Deposts (B2) or Crust (B4) posts (B5) en Visible on A Vegetated Co vations: r Present? Present?	yes Yes Yes	gery (87) face (88) No (Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expli Depth (inc Depth (inc	na (B13) c Plants (i i c Plants (i c Plant	B14) or (C1) is on Living Iron (C4) in in Tilled S C7) (D9) marks)	Wel	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shunted or Str Geomorphic P FAC-Neutral 1	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2) est (O5)
Depth (indicates capital control of the control of	irology India stors (minimu vater (A1) er Table (A2) n (A3) rks (B1) Deposts (B2) or Crust (B4) posts (B5) en Visible on A Vegetated Co vations: r Present? Present?	yes Yes Yes	gery (87) face (88) No (Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expli Depth (inc Depth (inc	na (B13) c Plants (i i c Plants (i c Plant	B14) or (C1) is on Living Iron (C4) in in Tilled S C7) (D9) marks)	Wel	Secondary Indicat Surface Sol C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P FAC-Neutral 1	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2) est (O5)
Depth (includes cap) Describe Recommends	irology India stors (minimu vater (A1) er Table (A2) n (A3) rks (B1) Deposts (B2) or Crust (B4) posts (B5) en Visible on A Vegetated Co vations: r Present? Present?	yes Yes Yes	gery (87) face (88) No (Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expli Depth (inc Depth (inc	na (B13) c Plants (i i c Plants (i c Plant	B14) or (C1) is on Living Iron (C4) in in Tilled S C7) (D9) marks)	Wel	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shunted or Str Geomorphic P FAC-Neutral 1	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2) est (O5)
Depth (indicates capital control of the control of	irology India stors (minimu vater (A1) er Table (A2) n (A3) rks (B1) Deposts (B2) or Crust (B4) posts (B5) en Visible on A Vegetated Co vations: r Present? Present?	yes Yes Yes	gery (87) face (88) No (Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expli Depth (inc Depth (inc	na (B13) c Plants (i i c Plants (i c Plant	B14) or (C1) is on Living Iron (C4) in in Tilled S C7) (D9) marks)	Wel	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shunted or Str Geomorphic P FAC-Neutral 1	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2) est (O5)

US Army Corps of Engineers



Photo File DSCN8468.JPG Orientation: -facing
Lat/Long or UTM: Long/Easting:-89.477011 Lat/Northing:39.593264

Description:



Photo File DSCN8470 JPG Orientation: -facing

LavLong or UTM: Long/Easting: Lat/Northing:

Description:

	Ot	y/County:	Christian	Sampling Date: 06-Nov-19
			State:	Illinois Sampling Point: DP2w
		Section, Town		
н				concave, convex, none): concave
				Datum: WGS 84
9.594226		Long.:	89.468/58	
to 2 percent slopes	V /	O No O		NWI classification: PEMIC
				optain in Remarks.)
or Hydrology s	gnificantly dis	turbed?	Are "No	ormal Circumstances" present? Yes W No
or Hydrology	aturally proble	ernatic?	(If need	ded, explain any answers in Remarks.)
ach site map show	ving sam	pling poir	nt location	ns, transects, important features, etc.
		\neg		
		With	m a wenanc	d? Yes ◉ No C
tific names of plan	its.			
		Rel.Strat.	Indicator	Dominance Test worksheet:
)		per la communicación	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
				That are OBL, FACW, or FAC: 2 (A)
				Total Number of Dominant Species Across All Strata: 3 (B)
		0.0%		Species Across All Strata:3(B)
	0	0.0%		Percent of dominant Species That Are ORL EACW or EAC: 66.7% (A/B)
	0	= Total Co	/er	That Are OBL, FACW, or FAC: 66.7% (A/B)
)				Prevalence Index worksheet:
	_ 3_		the contract of the contract o	Total % Cover of: Multiply by:
	7	70.0%	UPL	OBL species 0 x 1 = 0
		0.0%		FACW species 98 x 2 = 196
	1.0			FAC species 0 x 3 = 0
				FACU species 5 x 4 = 20 UPL species 7 x 5 = 35
)		100.0		
	90			Column Totals: 110 (A) 251 (B)
	. 2	2.0%	FACW	Prevalence Index = B/A = 2.282
	-			Hydrophytic Vegetation Indicators:
	-	_	-	1 - Rapid Test for Hydrologic Vegetation
	0	0.0%		✓ 2 - Dominance Test is > 50%
		0.00/		
	0	0.0%		
	0 0	0.0%		4 - Morphological Adaptations 1 (Provide supporting
	0	0.0%		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	0	0.0%		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
	0 0	0.0% 0.0% 0.0%		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
)	0 0 0 0	0.0% 0.0% 0.0% 0.0% = Total Co	ver	4 - Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must
)	0 0 0	0.0% 0.0% 0.0% 0.0%	ver	4 - Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must
	d 9.594226 Ito 2 percent slopes te typical for this time of y or Hydrology si or Hydrology na ach site map show Yes No Yes No Yes No No	d 9,594226 Ito 2 percent slopes Le typical for this time of year? Yes or Hydrology significantly dis naturally problem. The second of the s	Section, Town d 9.594226 Long:: 1to 2 percent slopes 1te typical for this time of year? Yes No or Hydrology significantly disturbed? or Hydrology naturally problematic? ach site map showing sampling polity Yes No or Hydrology naturally problematic? ach site map showing sampling polity Yes No or Hydrology naturally problematic? ach site map showing sampling polity Yes No or Hydrology naturally problematic? ach site map showing sampling polity Yes No or Hydrology naturally problematic? ach site map showing sampling polity Yes No or Hydrology naturally problematic? ach site map showing sampling polity Yes Or No or Hydrology naturally problematic? ach site map showing sampling polity Yes Or No or Hydrology naturally problematic? ach site map showing sampling polity Is the withing species and the site of the	Section, Township, Range: d Local reflet (c) 9,594226 Long:: -89,468758 Ito 2 percent slopes te typical for this time of year? Yes No (If no, e) or Hydrology significantly disturbed? Are The or Hydrology naturally problematic? (If nee ach site map showing sampling point locatio Yes No Yes No Virus

Depth (inches) 0-3 3-16	ption: (Des								
(inches) 0-3			ie depth	needed to				onfirm the	e absence of indicators.)
0-3	75 78 88	Matrix	04	Color (ox Featu %	Type 1	Loc2	Texture Remarks
	Color (n	3/1	100	Color	moist	70	Турс	Luc	Silty Clay
3-10	10YR	3/1	78	7.5YR	3/4	10	C	PL	Silty Clay
+mottle	10YR	5/4	10	7.5YR	5/1	2	D	3-1	Silty Clay
Thouse									
Type: C=Conc	entration, D	-Depletion,	, RM=Redu	iced Matrix,	CS=Covere	d or Coat	ed Sand G	rains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil In	ndicators:			98.20					Indicators for Problematic Hydric Soils 3:
Histosol (A	1)			San	ndy Glayed I	Matrix (S-	1)		Coast Prairie Redox (A16)
Histic Epip	edon (A2)			Sar	ndy Redox (S 5)			Dark Surface (S7)
Black Histi				Stri	pped Matrix	(S6)			☐ Iron Manganese Masses (F12)
	Sulfide (A4)			Loa	imy Mucky I	Hineral (F	1)		Very Shallow Dark Surface (TF12)
	Layers (A5)			Loa	my Gleyed	Matrix (F.	2)		Other (Explain in Remarks)
2 cm Muck				☐ De	pleted Matri	x (F3)			Outer (Explain in Remarks)
_	Below Dark S		1)	✓ Rec	dox Dark Su	rface (F6)		
	Surface (Al			De	pleted Dark	Surface ((F7)		³ Indicators of hydrophytic vegetation and
_	ck Mineral (S			Rec	dox Depress	ions (F8)			wetland hydrology must be present, unless disturbed or problematic.
5 cm Muck	ky Peat or Pe	at (53)							diffess distarbed of problematic.
testrictive La	ayer (if obse	erved):							
Type:			-						Hydric Soil Present? Yes No
Depth (inch	nes):								The second secon
IYDROLO	GY								
IYDROLO	70007100	cators:							
	rology Indi		s required	: check all th	nat aoo(v)				Secondary Indicators (minimum of two required
Wetland Hyd	rology Indi		s required		nat apply) Water-Staine	ed Leaves	i (B9)		Secondary Indicators (minimum of two required
Wetland Hyd Primary Indica	rology Indi ators (minimu	ım of one i	s required	<u></u> ,			: (B9)		Secondary Indicators (minimum of two required. Surface Soil Cracks (B6) Drainage Patterns (B10)
Netland Hyd Primary Indica	rology Indi ators (minimu /ater (A1) er Table (A2)	ım of one i	s required		Vater-Staine	na (B13)			Surface Soil Cracks (B6)
Wetland Hyd Primary Indica Surface W High Wate	rology Indi ators (minimu /ater (A1) er Table (A2) n (A3)	ım of one i	s required		Water-Staine Aquatic Faur	na (B13) : Piants (E	314)		Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hyd Primary Indica ✓ Surface W ✓ High Water ✓ Saturation	rology Indi ators (minimu /ater (A1) er Table (A2) n (A3)	um of one i	s required		Vater-Staine Aquatic Faur True Aquatic	na (B13) : Plants (E ulfide Odo	314) or (C1)	Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C3) Saturation Visible on Aerial Imagery (C9)
Wetland Hyd Primary Indica ✓ Surface W ✓ High Water ✓ Saturation	rology Indi ators (minimu /ater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2	um of one i	s required		Vater-Staine Aquatic Faur Frue Aquatic Hydrogen St	na (B13) : Piants (E ulfide Odo zosphere	314) or (C1) s on Living	Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Wetland Hyd Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo	rology Indi ators (minimu /ater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2	um of one i	s required		Nater-Staine Aquatic Faur Frue Aquatic Hydrogen Su Oxidized Rhi	na (B13) : Piants (E ulfide Odo zosphere Reduced	314) or (C1) s on Living Iron (C4)		Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geonorphic Position (D2)
Wetland Hyd Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo	rology Indi ators (minimul/ater (A1) er Table (A2) in (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4)	um of one i	s required		Water-Staine Aquatic Faur True Aquatic Hydrogen Sc Oxidized Rhi Presence of	na (B13) : Piants (B uifide Odd zosphere Reduced Reductio	314) or (C1) s on Living Iron (C4) n in Tilled 9		Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
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Photo File: DSCN8476.JPG Orientation: -facing

Lat/Long or UTM: Long/Easting:

Lat/Northing:

Description:

Photo File: DSCN8477.JPG Orientation:

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State: Illinois Sampling Date: 06-Nov-19 State: Illinois Sampling Point: DP2u Township, Range: S 7 T 13N R 3W Local relief (concave, convex, none): flat 19: -89.468669 Datum: WGS 84 NWI classification: None (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) point locations, transects, important features, etc. Is the Sampled Area within a Wetland? Yes No (Indicator Dominance Test worksheet:
Township, Range: S 7 T 13N R 3W Local relief (concave, convex, none): flat 19: -89.468669 Datum: WGS 84 NWI classification: None (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) point locations, transects, important features, etc. Is the Sampled Area within a Wetland? Yes No Table 13N No Inant ies? Indicator Dominance Test worksheet:
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ver Status Number of Dominant Species
.0% That are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant
Species Across All Strata: 3 (B)
.0% Percent of dominant Species
That Are OBL FACW, or FAC: 33.3% (A/B)
Cover
Prevalence Index worksheet:
0.0% UPL Total % Cover of: Multiply by: 0.0% OBL species 0 x 1 = 0
00% OBL species 0 x 1 = 0 00% FACW species 15 x 2 = 30
.0% FAC species 0 x 3 = 0
.0% FACU species 80 x 4 = 320
UPL species 11 x 5 = 55
(1)
FACU Prevalence Index = B/A = 3.821
1.3% FACW Hydrophytic Vegetation Indicators:
.5% UPL 1 - Rapid Test for Hydrologic Vegetation
3.8% FACU 2 - Dominance Test is > 50%
.0% 3 - Prevalence Index is ≤3.0 1
.0% 4 - Morphological Adaptations ¹ (Provide supporting
data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation 1 (Explain)
Indicators of hydric soil and wetland hydrology must
be present, unless disturbed of problematic.
.0% Hydrophytic
Woodston
ol Cover Present? Yes No No

						the mai	cator or co			
			ne aeptn i	reeded to				nnim the	absence of indicators.)	
Depth (inches)	Color (r	Matrix	%	Color (ox Featu %	Type 1	Loc2	Texture	Remarks
0-3	10YR	3/2	100	Color	1101317	- 2-4		25.700	Silty Clay	
	10YR	3/1	91	10YR	3/4	5	C	M	Silty Clay	
3-16										
+mottle	10YR	5/1	2	7.5YR		2	c	М	Silty Clay	
Type: C=Cond	centration, D	=Dep!etior	n, RM=Redu	ced Matrix,	CS=Covere	ed or Coat	ed Sand Gr	sins.	² Location: PL=Pore tining.	M=Matrix.
Hydric Soil I	ndicators:								Indicators for Problem	natic Hydric Soils 3:
Histosol (A	A1)			San	dy Gleyed	Matrix (5	4)		Coast Prairie Redox (A16)
	pedon (A2)			San	dy Redox (55)			Dark Surface (S7)	,
Black Histi					pped Matri				Iron Manganese Mass	sas (F12)
Hydrogen	Sulfide (A4)				my Mucky		1)			
Stratified	Layers (A5)				my Gleyed				Very Shallow Dark Su	
2 cm Mucl	k (A10)				oleted Matri	an appropriate St.	3.5		Other (Explain in Ren	narks)
Depleted	Below Dark S	Surface (A	11)		lox Dark Su)			
Thick Dark	k Surface (Al	12)			oleted Dark				3 Indicators of hydrophy	dic vegetation and
Sandy Mu	ck Mineral (S	51)			lox Depres				wetiand hydrology	must be present,
5 cm Muc	ky Peat or Pe	eat (53)							unless disturbed o	er problematic.
Type: Depth (inc	hes):								Hydric Soil Present?	Yes ○ No ⑨
Depth (incl Remarks:	OGY								Hydric Soil Present?	Yes O No 💿
Depth (incl Remarks: HYDROLO Wetland Hyd	OGY Grology Indi									
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indice	OGY Grology Indi ators (minim		is required:						Secondary Indicate	ors (minimum of two required
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface W	OGY Grology Indi ators (Minimu Vater (A1)	um of one	is required:	\sqsubseteq v	Vater-Stain		s (B9)		Secondary Indicate Surface Soil Cr	ors (minimum of two required acks (86)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indic. Surface V High Wat	OGY Brology India ators (minimum Water (A1) er Table (A2)	um of one	is required:		Vater-Stain quatic Fau	na (B13)			Secondary Indicate Surface Soil Cr Drainage Patte	ors (minimum of two required acks (86) erns (810)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indic. Surface V High Wat Saturation	OGY Brology India ators (minimum Water (A1) er Table (A2) n (A3)	um of one	is required:		Vater-Stain quatic Fau rue Aquati	na (B13) c Plants (E	B14)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W.	ors (minimum of two required acks (86) erns (810) ater Table (C2)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indic. Surface V High Wat Saturation Water Ma	OGY frology Indi ators (minime Vater (A1) er Table (A2) n (A3) orks (B1)	um of one	ıs reauired:		Vater-Stain iquatic Fau True Aquatic Iydrogen Si	na (B13) c Plants (E uifide Odo	B14) >r (C1)	Posts (C2	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W. Crayfish Burro	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indic. Surface V High Wate Saturation Water Ma Sediment	OGY Srology India ators (minimu Vater (A1) er Table (A2) n (A3) orks (B1) t Deposits (B)	um of one	is required:		Vater-Stain quatic Fau rue Aquati tydrogen S Oxidized Rh	na (B13) c Plants (I ulfide Odo izosphere	B14) × (C1) s on Living	Roots (C3)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W. Crayfish Burro Saturation Visi	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indic. Surface V High Wat Saturation Water Ma Sed-ment Drift Dep	DGY Brology India ators (minimum vater (A1) er Table (A2) nrks (B1) i Deposits (B1) osits (B3)	um of one	is required:		Vater-Stain quatic Fau rue Aquati tydrogen Si Oxidized Rh tresence of	na (B13) c Plants (E ulfide Odd izosphere Reduced	B14) x (C1) s on Living Iron (C4)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W. Crayfish Burro Saturation Visi	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indic. Surface V High Wat Water Ma Sedment Drift Dep A/gal Mat	OGY Irology India ators (minimu vater (A1) er Table (A2) rrks (B1) Deposts (B) osits (B3) er Crust (B4)	um of one	is required:		Vater-Stains quatic Faus frue Aquatic lydrogen Si oxidized Rh cresence of decent Iron	na (B13) c Plants (I ulfide Odd izosphere Reduced Reduction	B14) or (C1) s on Living Iron (C4) n in Tilled S		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wi Crayfish Burro Saturation Visi Stunted or Stn Geomorphic N	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indice Surface V High Wate Saturation Water Ma Sedment Drift Dep Aigal Mat Iron Depa	Jogy Joology India Jors (Minimu Vater (A1) er Table (A2) n (A3) n (A3) Deposats (B1) Deposats (B3) or Crust (B4) osits (B3)	um of one			Vater-Stains quatic Faus frue Aquatic dydrogen Sc Oxidized Rh dresence of Recent Iron Thin Muck S	na (B13) c Plants (B ulfide Odd izosphere Reduced Reduction Surface (C	B14) x (C1) s on Living Iron (C4) n in Tilled S		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W. Crayfish Burro Saturation Visi	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface V High Water Ma Sediment Drift Dep Aigal Mat Iron Dept Inundatio	DGY Brology Indi ators (minimu Vater (A1) er Table (A2) n (A3) i Deposits (B1) i Deposits (B3) or Crust (B4) osits (B3) on Visible on	um of one) 2) Aerial Ima	gery (B7)		Vater-Stain Aquatic Faul Frue Aquatic Aydrogen So Oxidized Rh Aresence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (I ulfide Ode izosphere Reduced Reduction Surface (C 'eli Data (B14) x (C1) s on Living Iron (C4) n in Tilled S (7) (7)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wi Crayfish Burro Saturation Visi Stunted or Stn Geomorphic N	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2)
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Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface V High Water Ma Derift Dep Argal Mat Iron Dept Inundatio Sparsely Field Observ Surface Water	orks (B1) or Crust (B4 osits (B5) on Visible on Vegetated Covations:	um of one) 2) Aerial Ima oncave Sur	gery (B7) face (B8)		Vater-Stain Aquatic Fau True Aquatic	na (B13) c Plants (I ulfide Odo izosphere Reduced Reduction Surface (C feli Data (ches):	B14) x (C1) s on Living Iron (C4) n in Tilled S (7) (7)	oils (C6)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wi Crayfish Burro Saturation Visi Stunted or Str Geomorphic N FAC-Neutral Tr	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ost on (D2) est (D5)
Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface W High Wate Saturation Water Ma Sed-ment Iron Dept A'gal Mat Iron Dept Inundation Sparsely Field Observ Surface Water Table F	orks (B) or Crust (B4 osts (B) or Crust (B4 osts (B5) or Crust (B4 osts (B5) or Visible on Visible	2) Aerial Ima encave Sur	gery (B7) face (B8)		vater-Stain- quatic Fau- irue Aquatic lydrogen Si- oddized Rh resence of lecent Iron Thin Muck S Gauge or W Other (Expla Depth (inc Depth (inc	na (B13) c Plants (I c Plants	B14) x (C1) s on Living Iron (C4) n in Tilled S (7) (7)	oils (C6)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wi Crayfish Burro Saturation Visi Stunted or Stn Geomorphic N	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2)
Depth (includes cape	Jogy Indiators (minimum Vater (A1) er Table (A2) er Grust (B4) er Grust (B4) er Grust (B4) er Vegetated Covations: er Present? esent?	yes Yes Yes Yes	gery (87) 1ace (68)		vater-Stains quatic Faul irue Aquatic Faul irue Aquatic lydrogen Si Oxidized Rh iresence of Recent Iron Rhin Muck S Gauge or W Other (Explanation Depth (inc. Depth	na (B13) c Plants (I ulfide Odd izosphere Reduced Reduction Surface (C feli Data (ain in Ren ches):	B14) x (C1) s on Living Iron (C4) n in Tilled S (7) D9) narks)	wet	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W. Crayfish Burro Saturation Vis Stunted or Str Geomorphic Pt FAC-Neutral Tr	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2) est (D5)
Depth (includes cape	Jogy Indiators (minimum Vater (A1) er Table (A2) er Grust (B4) er Grust (B4) er Grust (B4) er Vegetated Covations: er Present? esent?	yes Yes Yes Yes	gery (87) 1ace (68)		vater-Stains quatic Faul irue Aquatic Faul irue Aquatic lydrogen Si Oxidized Rh iresence of Recent Iron Rhin Muck S Gauge or W Other (Explanation Depth (inc. Depth	na (B13) c Plants (I ulfide Odd izosphere Reduced Reduction Surface (C feli Data (ain in Ren ches):	B14) x (C1) s on Living Iron (C4) n in Tilled S (7) D9) narks)	wet	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wi Crayfish Burro Saturation Visi Stunted or Str Geomorphic N FAC-Neutral Tr	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ost on (D2) est (D5)
Depth (includes cap) Describe Records	Jogy Indiators (minimum Vater (A1) er Table (A2) er Grust (B4) er Grust (B4) er Grust (B4) er Vegetated Covations: er Present? esent?	yes Yes Yes Yes	gery (87) 1ace (68)		vater-Stains quatic Faul irue Aquatic Faul irue Aquatic lydrogen Si Oxidized Rh iresence of Recent Iron Rhin Muck S Gauge or W Other (Explanation Depth (inc. Depth	na (B13) c Plants (I ulfide Odd izosphere Reduced Reduction Surface (C feli Data (ain in Ren ches):	B14) x (C1) s on Living Iron (C4) n in Tilled S (7) D9) narks)	wet	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W. Crayfish Burro Saturation Vis Stunted or Str Geomorphic Pt FAC-Neutral Tr	ors (minimum of two require racks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2) est (D5)
Depth (includes cape	Jogy Indiators (minimum Vater (A1) er Table (A2) er Grust (B4) er Grust (B4) er Grust (B4) er Vegetated Covations: er Present? esent?	yes Yes Yes Yes	gery (87) 1ace (68)		vater-Stains quatic Faul irue Aquatic Faul irue Aquatic lydrogen Si Oxidized Rh iresence of Recent Iron Rhin Muck S Gauge or W Other (Explanation Depth (inc. Depth	na (B13) c Plants (I ulfide Odd izosphere Reduced Reduction Surface (C feli Data (ain in Ren ches):	B14) x (C1) s on Living Iron (C4) n in Tilled S (7) D9) narks)	wet	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W. Crayfish Burro Saturation Vis Stunted or Str Geomorphic Pt FAC-Neutral Tr	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2) est (D5)
Depth (includes cap) Describe Records	Jogy Indiators (minimum Vater (A1) er Table (A2) er Grust (B4) er Grust (B4) er Grust (B4) er Vegetated Covations: er Present? esent?	yes Yes Yes Yes	gery (87) 1ace (68)		vater-Stains quatic Faul irue Aquatic Faul irue Aquatic lydrogen Si Oxidized Rh iresence of Recent Iron Rhin Muck S Gauge or W Other (Explanation Depth (inc. Depth	na (B13) c Plants (I ulfide Odd izosphere Reduced Reduction Surface (C feli Data (ain in Ren ches):	B14) x (C1) s on Living Iron (C4) n in Tilled S (7) D9) narks)	wet	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W. Crayfish Burro Saturation Vis Stunted or Str Geomorphic Pt FAC-Neutral Tr	ors (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2) est (D5)



Photo File: DSCN8495.JPG

-facing

Lat/Long or UTM: Long/Easting:

Lat/Northing:

Description:



Photo File: DSCN8497.JPG Orientation:

-facing

LatLong or UTM: Long/Easting:

Lat/Northing:

Description:

oject/Site: Black Diamond			Ct	y/County:	Christian	Sampling Date: 06-Nov-19
oplicant/Owner: Sw.ft Current				noc 65 a	State:	Illinois Sampling Point: DP3w
westigator(s): ES, JW				Section, Town		
andform (hillslope, terrace, etc.): Lowland				,	2.5	oncave, convex, none): concave
	-					Datum: WGS 84
ope: 2.0% / 1.1 ° Lat.: 3				Long.: -	89.458153	
oil Map Unit Name: Osco silt loam, 2	to 5 perce	ent slopes	V (e) Ala O	/14	NWI classification: PEMIC
e climatic/hydrologic conditions on the sil					•	prain in Remarks.) yemal Circumstances" gresent? Yes ● No ○
re Vegetation , Sort ,	or Hydrolo	gy si	gnificantly dis	turbed?	Are "No	ormal Circumstances" present? Yes • No •
re Vegetation , Soil ,	or Hydrolo	gy 🗌 na	aturally proble	ematic?	(If nee	ded, explain any answers in Remarks.)
UMMARY OF FINDINGS - Att	ach site	map show	ving samp	oling poin	t location	ns, transects, important features, etc.
	Yes 💿	No O				
Hydric Soil Present? Yes No			Is the Sampled Area within a Wetland? Yes No			
ijune san rresem	Yes 💿			Withi	i a Wetland	1? Yes ● No C
rectalia tijarologi i reserti	ies 😏	NO O				
Remarks:						
VEGETATION - Use scient	tific nan	nes of plan	its.	Dominant Species?		
101 - 1 - 206	,		Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft	1		15	✓ 75.0%	FACU	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1. Gleditsia triacanthos			-	₹ 25.0%	FACW	That are OBL, FACW, or FAC: 3 (A)
•			^	0.6%	179017	Total Number of Dominant
3. 4.				0.0%		Species Across All Strata: 5 (B)
5.			0	0.0%		Percent of dominant Species
3			20	= Total Cove	er	That Are OBL, FACW, or FAC: 60.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15ft)				Prevalence Index worksheet:
1. Gled tsia triacanthos			3	₹ 37.5%	FACU	Total % Cover of: Multiply by:
2. Cornus alba			5	₹ 62.5%	FACW	OBL species 0 x 1 = 0
3.			0	0.0%		FACW species 104 x 2 = 208
			^	0.0%		FAC species 2 x 3 = 6
5.			0	0.0%		FACU species 18 x 4 = 72
Herb Stratum (Plot size: 5ft	1		8	= Total Cov	er	UPL species 1 x 5 = 5
	'		2	2.1%	FAC	Column Totals: 125 (A) 291 (B)
1. Apocynum cannabinum			94	✓ 96.9%	FACW	
Phalaris arundinacea Rubus occidentalis			1	1.0%	UPL	Prevalence Index = B/A =2.328
4.			0	0.0%		Hydrophytic Vegetation Indicators:
_				0.0%	-	1 - Rapid Test for Hydrologic Vegetation
6.				0.0%		2 - Dominance Test is > 50%
7.			0	0.0%		✓ 3 - Prevalence Index is ≤3.0 ¹
8.			0	0.0%		4 - Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
			0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
9.			0	0.0%		1 Tobicinade (Marophysic regetation (explain)
			-			1
9. 10.			97	= Total Cov	er	1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9. 10. Woody Vine Stratum (Plot size: 15ft)		= Total Cov	er	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9. 10. Woody Vine Stratum (Plot size: 15ft 1.			0	= Total Cov	er	be present, unless disturbed or problematic. Hydrophytic
9. 10. Woody Vine Stratum (Plot size: 15ft				= Total Cov		be present, unless disturbed or problematic.

IL								· F 11	- because of indicators \	
rofile Descri			e depth n	eeded to				onfirm the	a absence of indicators.)	
Depth		Matrix	0/-	Color (ox Featur %	es Type ¹	Loc2	Texture	Remarks
(inches)	Color (n	3/2	100	Color (illoist)	70	1100	Loc	Silty Clay Loam	
			60	10YR	5/6	5	C	М	Silty Clay Loam	
4-16	10YR	3/2								
+mottle	10YR	4/2	25	7.5YR	3/3		c	PL	Silty Clay Loam	
Type: C=Conce	entration, D	Depletion,	RM=Reduc	ced Matrix,	CS=Covere	d or Coate	d Sand Gr	ains.	4ocation: PL=Pore Lining	M=Matrix.
Hydric Soil In	ndicators:								Indicators for Proble	matic Hydric Soils ³ :
Histosol (A				party.	dy Gleyed I)		Coast Prairie Redox	(A16)
Histic Epipe					idy Redox (Dark Surface (\$7)	
Black Histic				-	pped Matrix				☐ Iron Manganese Ma	sses (F12)
_	Sulfide (A4)			en marie	my Mucky I				Very Shallow Dark S	
Stratified L					my Gleyed)		Other (Explain in Re	
2 cm Muck		urface (A11	`		oleted Matri				- con Andrew at the	
_	Selow Dark S		,		lox Dark Su					
_	Surface (A1				oleted Dark		-7)		3 Indicators of hydroph	
_	k Mineral (S y Peat or Pe			Rec	iox Depress	ions (F8)			wetland hydrology unless disturbed	must be present, or problematic.
	-								1	
	yer (if obs	ervea):							1	
Туре:									Hydric Soil Present?	Yes No
	nes):								Hydric Soil Present?	Yes [®] No O
Type: Depth (inch	nes):								Hydric Soil Present?	Yes [®] No ^O
Type: Depth (inch									Hydric Soil Present?	Yes No
Type: Depth (inch Remarks:	GY	cators:							Hydric Soil Present?	Yes No
Type:	GY rology Indi		required:	check all th	lylace fer					
Type:	GY rology Indi tors (minimu		required:		nat apply) Vater-Stains	ed Leaves	(89)			tocs (minimum of two required
Type:	GY rology Indi tors (minimu	m of one is	; required:	□ v			(89)		Secondary Indica	tocs (minimum of two required
Type:	GY rology Indi lors (minimu later (A1) er Table (A2)	m of one is	required:		Vater-Staine	na (B13)			Secondary Indica Surface Sol (Drainage Pat	tocs (minimum of two required
Type:	GY rology Indi tors (minimu ater (A1) er Table (A2)	m of one is	required:		Vater-Staine Iquatic Faur	na (B13) : Plants (B	14)		Secondary Indica Surface Sol (Drainage Pati Dry Season V	tocs (minimum of two required tracks (B6) terns (B10) Vater Table (C2) ows (C8)
Type:	GY rology Indi tors (minimu ater (A1) er Table (A2)	m of one is	; required:		Vater-Staine Iquatic Faur True Aquatic	na (B13) : Plants (B rifide Odor	14) (C1)	Roots (C3)	Secondary Indica Surface Sol (Drainage Pati Dry Season V Crayfish Burn Saturation Vi	tocs (minimum of two required tracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9)
Type:	GY rology Indi tors (minimu ater (A1) er Table (A2) (A3) rks (B1) Deposts (B2	m of one is	; required:		Vater-Staine Iquatic Faur True Aquatic Iydrogen Su	na (B13) : Plants (B alfide Odor zospheres	14) (C1) on Living	Roots (C3)	Secondary Indica Surface Sol (Drainage Pati Dry Season V Crayfish Burn Saturation Vi	tocs (minimum of two required tracks (B6) terns (B10) Vater Table (C2) ows (C8)
Type:	GY rology Indi tors (minimu ater (A1) er Table (A2) (A3) rks (B1) Deposts (B2	im of one is	; required:		Vater-Staine Iquatic Faur True Aquatic Hydrogen Su Oxidized Rhi	na (B13) : Plants (B u'fide Odor zospheres Reduced I	14) (C1) on Living ron (C4)		Secondary Indica Surface Sol (Drainage Pati Dry Season V Crayfish Burn Saturation Vi	tecs (minimum of two required tracks (B6) terns (B10) Vater Table (C2) pws (C8) sible on Aerial Imagery (C9) ressed Plants (D1)
Type:	GY rology India tors (minimu ater (A1) er Table (A2) er (A3) (A3) Deposts (B2 sists (B3) or Crust (B4)	im of one is	required:		Vater-Staine Equatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of	na (Bi3) : Plants (B d'fide Odor zospheres Reduced I Reduction	14) (C1) on Living ron (C4) in Tilled S		Secondary Indica Surface Sol (Drainage Patt Dry Season V Crayfish Burn Saturation Vi Stunted or St	locs (minimum of two required tracks (86) terns (810) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Type:	GY rology India tors (minimu ater (A1) er Table (A2) er (A3) (A3) Deposts (B2 sists (B3) or Crust (B4)	om of one is		Y A A A A A A A A A	Vater-Stains Aquatic Faur Frue Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron	na (Bi3) : Plants (B u'fide Odor zospheres Reduced I Reduction urface (C7	14) (C1) on Living ron (C4) in Tilled S		Secondary Indica Surface Sol (Drainage Pati Dry Season V Crayfish Burn Saturation Vi Stunted or Sl	locs (minimum of two required tracks (86) terns (810) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Type:	GY rology India tors (minimulater (A1) or Table (A2) (A3) Deposts (B2) sits (B3) or Crust (B4) sits (B5)	om of one is	ery (87)		Vater-Stains Vauatic Faur Frue Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S	na (Bi3) : Plants (B ::Flants (B ::Fide Odor zospheres Reduced I Reduction urface (C7 eii Data (D	14) (C1) on Living ron (C4) in Tilled S		Secondary Indica Surface Sol (Drainage Pati Dry Season V Crayfish Burn Saturation Vi Stunted or Sl	locs (minimum of two required tracks (86) terns (810) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
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Type:	GY rology Indi tors (minimu ater (A1) er Table (A2) (A3) rks (B1) Deposts (B2) sits (B3) or Crust (B4) sits (B5) n Visible on a (egetated Co	n of one is Aerial Image	ery (87) ace (88)		Vater-Staine Vauatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or Wi Other (Expla	na (Bi3): Plants (Bi2Fide Odor zospheres Reduced I Reduction urface (C7 eii Data (Din in Remi	14) (C1) on Living ron (C4) in Tilled S		Secondary Indica Surface Sol (Drainage Pati Dry Season V Crayfish Burn Saturation Vi Stunted or Sl	locs (minimum of two required tracks (86) terns (810) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
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Type:	GY rology Indi tors (minimu ater (A1) er Table (A2) (A3) rks (B1) Deposts (B2) sits (B3) or Crust (B4) sits (B5) in Visible on a /egetated Co ations: Present? resent?	yes Yes	ery (B7) ace (B8) No (Vater-Stains Equatic Faur Frue Aquatic Fydrogen Sc Experiment Experiment Experiment Expla Depth (inc Depth (inc Depth (inc	na (B13) Plants (B illide Odor zospheres Reduced I Reduction urface (C7 eti Data (D in in Remithes): thes):	14) (C1) on Living ron (C4) in Tilled S () (9)	ods (C6)	Secondary Indica Surface Soil (Drainage Pati Dry Season V Crayfish Burn Saturation Vi Stunted or St Ceomorphic (FAC-Neutral	tecs (minimum of two required tracks (86) terns (810) fatter Table (C2) pows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
Type:	GY rology Indi tors (minimu ater (A1) er Table (A2) (A3) rks (B1) Deposts (B2) sits (B3) or Crust (B4) sits (B5) in Visible on a /egetated Co ations: Present? resent?	yes Yes	ery (B7) ace (B8) No (Vater-Stains kquatic Faur frue Aquatic hydrogen Sc ovidead Rhi resence of kecent Iron Thin Muck S Sauge or Wi Other (Expla Depth (inc Depth (inc	na (B13) Plants (B illide Odor zospheres Reduced I Reduction urface (C7 eti Data (D in in Remithes): thes):	14) (C1) on Living ron (C4) in Tilled S () (9)	ods (C6)	Secondary Indica Surface Sol (Drainage Pati Dry Season V Crayfish Burn Saturation Vi Stunted or St Ceomorph'c FAC-Neutral	tecs (minimum of two required tracks (86) terns (810) fatter Table (C2) pows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
Type:	GY rology Indi tors (minimu ater (A1) er Table (A2) (A3) rks (B1) Deposts (B2) sits (B3) or Crust (B4) sits (B5) in Visible on a /egetated Co ations: Present? resent?	yes Yes	ery (B7) ace (B8) No (Vater-Stains kquatic Faur frue Aquatic hydrogen Sc ovidead Rhi resence of kecent Iron Thin Muck S Sauge or Wi Other (Expla Depth (inc Depth (inc	na (B13) Plants (B illide Odor zospheres Reduced I Reduction urface (C7 eti Data (D in in Remithes): thes):	14) (C1) on Living ron (C4) in Tilled S () (9)	ods (C6)	Secondary Indica Surface Sol (Drainage Pati Dry Season V Crayfish Burn Saturation Vi Stunted or St Ceomorph'c FAC-Neutral	tecs (minimum of two required tracks (86) terns (810) fatter Table (C2) pws (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)



	Plot ID:	DP3w	Photo	Path: C:\wetForm\Jolle\Black L	namonorno
			No	Photo	
Photo File: DSCN8568.JPG	Orientation:	-facing Photo File: N	one.bmp	Orientation:	-facing
Long/Easting:	Lat/Northing:	L	ong/Easting:	Lat/Northing:	
Description:	·	Description:			

No Photo

No Photo

Photo File: None.bmp	Orientation:		-facing	Photo File: None.bmp	Orientation:	-facing
Long/Easting:	•	Lat/Northing:		Long/Easting:	Lat/Northin	g:
Description:	of.			Description:		

Project/Site: Black Diamond	CI	ty/County: 0	Christian	Sampling Date: 06-Nov-19
			0000 00	Ikinois Sampling Point: DP4w
Applicant/Owner: Swift Current		Section, Towns		
nvestigator(s): ES, JW		199	165 (5)	oncave, convex, none): concave
andform (hillstope, terrace, etc.): Lowland				Company of the Compan
Slope: 3.0% / 1.7 ° Lat.: 39.604742		Long.: -{	39.459338	Datum: WGS 84
Soil Map Unit Name: Osco silt loam, 2 to 5 percent slopes		00		NWI classification: PEMIC
are climatic/hydrologic conditions on the site typical for this time.	of year? Yes	● No ∪	(If no, ex	plain in Remarks.)
Are Vegetation 🔲 , So I 🔲 , or Hydrology 🔛	significantly dis	sturbed?	Are "No	rmal Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrology	naturally probl	ematic?	(If need	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sh	owing sam	pling poin	t location	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No O				
Hydric Soil Present? Yes No			Sampled A	
Mar (No.)		Within	i a wetiand	1? Yes ● No □
Remarks:				
VEGETATION - Use scientific names of pl	ants.	Dominant Species? .		
NO. 10	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft)			FACW	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1. Acer saccharinum	5	0.0%	FACW	That are OBL, FACW, or FAC: 2 (A)
3.	0	0.0%		Total Number of Dominant Species Across All Strata: 3 (B)
3. 4.	•	0.0%		Species Across All Strata:3(B)
5.	0	0.0%		Percent of dominant Species That Are ORL FACW or FAC: 66.7% (A/B)
	5	= Total Cove	er	That Are OBL, FACW, or FAC: 66.7% (A/B)
Saplina/Shrub Stratum (Plot size: 15ft)				Prevalence Index worksheet:
1. Gleditsia triacantinos	1_	✓ 100.0%	FACU	Total % Cover of: Multiply by:
2	0	0.0%		OBL species 0 x 1 = 0
3.		0.0%		FACW species 106 x 2 = 212 FAC species 0 x 3 = 0
4 5.	0	0.0%		FACU species 0 x 3 = 0 FACU species 2 x 4 = 8
	1	= Total Cove	or .	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5ft)				· · · · · · · · · · · · · · · · · · ·
1, Solidago gigantea		1.0%	FACW	
2. Solidago altissima		✓ 98.0%	FACW	Prevalence Index = B/A = 2.037
3. Phalaris arundinacea 4.	100	0.0%	TACH	Hydrophytic Vegetation Indicators:
	0	0.0%		1 - Rapid Test for Hydrologic Vegetation
6.	0	0.0%		2 - Dominance Test is > 50%
7.	0	0.0%		✓ 3 - Prevalence Index is ≤3.0 ¹
8.	0	0.0%		4 - Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
9	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
10.	_0_	0.0%		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 15ft)	102	= Total Cov	er	be present, unless disturbed or problematic.
1.	00	0.0%		
2.	0	0.0%		Hydrophytic Vegetation
	0	= Total Cov	er	Present? Yes No
Remarks: (Include photo numbers here or on a separat	e sheet.)			

ofile Descr	iption: (Descr	ibe to ti								
Depth		atrix			Red	ox Featu			*	
(inches)	Color (mo		%	Color (0/0	Type 1	Loc2	Texture	Remarks
0-16	10YR	3/2	75	7.5YR	3/4	20	С	PL	Silty Clay Loam	
+mottle				10YR	5/1	5	D	М	Silty Clay Loam	
								-		
Type: C=Cone	centration, D=0	epletion,	, RM=Reduc	ed Matrix,	CS=Covere	d or Coat	ed Sand Gr	ains.	² Location: PL≃Pore Lining. M	=Matrix.
łydric Soil I									Indicators for Problem	atic Hydric Soils ³ :
Histosol (A1)			San	idy Gleyed I	Matrix (S	1)		Ceast Prairie Redox (A	16)
Histic Epig	pedon (A2)			San	dy Redox (S5)			Dark Surface (\$7)	
Black Hist	ic (A3)			Stri	pped Matrix	x (56)				r (E12)
Hydrogen	Sulfide (A4)			y =====	my Mucky I		1)		Iron Manganese Masse	
Stratified	Layers (A5)				my Gleyed				Very Shallow Dark Sur	tace (TF12)
2 cm Muc	k (A10)				oleted Matri		,		Other (Explain in Rema	arks)
	Below Dark Sur	face (A1	1)				`			
	k Surface (A12)		3.50	_	dox Dark Su		No come		3	
_	ick Mineral (S1)			_	oleted Dark				3 Indicators of hydrophyt	ic vegetation and
	ky Peat or Peat			☐ Red	iox Depress	sions (F8)			wetland hydrology n unless disturbed or	
	ayer (if obser	7.00								
Type:	ayer (ii obser	,.								
Depth (inc Remarks:	hês):								Hydric Soil Present?	Yes © No C
Remarks:									Hydric Soil Present?	Yes ♥ No ∪
Remarks:	DGY	tors:							Hydric Soil Present?	Yes • No ·
Remarks:	OGY drology Indica		s required: (neck all th	e de la constant					Yes No C
IYDROLO Wetland Hyc	OGY drology Indica alogs (minimum		s required: (-		ed Leaves	. (69)		Secondary Indicator	s fminimum of two required.
IYDROLO Wetland Hyc Primary Indic Surface V	OGY drology Indica alors (minimum Water (A1)		s required: c	_ v	Vater-Staine		(B9)		Secondary Indicator Surface Soil Cra	s (minimum of two required cks (B6)
IYDROLC Wetland Hyo Primary Indic Surface V High Wat	DGY drology Indica ators (minimum Yater (A1) er Table (A2)		s required: c		Vater-Staine quatic Faur	na (B13)			Secondary Indicator Surface Soil Cra Drainage Patter	s (minimum of two required cks (B6) ns (B10)
IYDROLC Wetland Hyc Primary Indic Surface V High Wat Saturatio	OGY drology Indica ators (minimum Vater (A1) ter Table (A2) n (A3)		s required; c		Vater-Staine quatic Faur rue Aquatic	na (B13) : Plants (E	314)		Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wal	s (minimum of two required cks (B6) ns (B10) er Table (C2)
IYDROLO Wetland Hyc Primary Indic Surface V High Wat Saturatio Water Ma	OGY drology Indica ators (minimum Vater (A1) ter Table (A2) n (A3) arks (B1)		s required: C		Vater-Staine quatic Faur rue Aquatic lydrogen Sc	na (B13) : Plants (E uifide Odo	314) × (C1)		Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wal	s fminimum of two required. cks (B6) ns (B10) er Tab'e (C2) s (C8)
IYDROLO Wetland Hyc Primary Indic Surface V High Wat Saturatio Water Ma	OGY drology Indica ators (minimum Vater (A1) ter Table (A2) n (A3)		s.required; c		Vater-Staine quatic Faur rue Aquatic Hydrogen Sc Oxidized Rhi	na (B13) : Plants (E uifide Odo zosphere	314) x (C1) s on Living (Roots (C3)	Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9)
IYDROLC Wetland Hyc Primary Indic J Surface V Saturatio Water High Sed ment	or Table (A2) or (A3)		s required; c		Vater-Staine equatic Faur frue Aquatic Hydrogen Su Oxidized Rhi Presence of	na (B13) : Plants (E uifide Odo zosphere Reduced	314) or (C1) s on Living (Iron (C4)		Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Street	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) de on Aerial Imagery (C9) ssed Plants (D1)
IYDROLC Wetland Hyc Primary Indic J Surface V Saturatio Water High Sed ment	or Action (A2) or Action (A3) or Action (B2)		s required: c		Vater-Staine equatic Faur frue Aquatic Hydrogen Su Oxidized Rhi Presence of	na (B13) : Plants (E uifide Odo zosphere Reduced	314) x (C1) s on Living (Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stre	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) alton (D2)
IYDROLC Wetland Hyc Primary Indic J Surface V Saturatio Water High Sed ment	or Tours (B2) or Tours (Minimum (Water (A1)) or Table (A2) or (A3) or (s required: c	U V	Vater-Staine equatic Faur frue Aquatic Hydrogen Su Oxidized Rhi Presence of	na (B13) : Plants (B uifide Odd zosphere Reduced Reduction	314) or (C1) s on Living l Iron (C4) n in Tilled S		Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Street	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) alton (D2)
IYDROLC Wetland Hyc Primary Indic Surface V High Wat Sed ment Orift Dep Algal Mat	or Tours (B2) or Tours (Minimum (Water (A1)) or Table (A2) or (A3) or (of one			Vater-Staine squatic Faur frue Aquatic Hydrogen Sc Oxidized Rhi Presence of Recent Iron	na (B13) : Plants (B uifide Odo zosphere Reduced Reduction urface (C	314) x (C1) s on Living to living (C4) n in Titled S 7)		Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stre	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) alton (D2)
IYDROLC Wetland Hyc Primary Indic ✓ Surface V High Wat ✓ Saturatio Water Me Corift Dep Algal Mat Iron Dep	or Crust (B4) osits (B5)	of one	ery (87)		Vater-Staine quatic Faur true Aquatic Hydrogen St Dxidized Rhi Hesence of Recent Iron Thin Muck S	na (B13) : Plants (E uifide Odo zosphere Reduced Reduction urface (C eli Data (I	314) or (C1) s on Living to Iron (C4) or in Titled S 7)		Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stre	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) alton (D2)
IYDROLC Wetland Hyc Primary Indic ✓ Surface V High Wat ✓ Saturatio Water Me Drift Dep Algal Mat Iron Dep Inundate Sparsely	OGY drology Indica ators (minimum Vater (A1) er Table (A2) n (A3) ators (B1) t Deposits (B2) cosits (B3) t or Crust (B4) osits (B5) on Visible on Ae Vegetated Cond	of one	ery (87)		Vater-Stains Aquatic Faur Frue Aquatic Aydrogen Subodized Rhi Presence of Recent Iron Thin Muck S Gauge or We	na (B13) : Plants (E uifide Odo zosphere Reduced Reduction urface (C eli Data (I	314) or (C1) s on Living to Iron (C4) or in Titled S 7)		Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stre	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) alton (D2)
IYDROLC Wetland Hyc Primary Indic Surface V High Wat Saturatio Water Ma Sediment Drift Dep I fron Dep I fron Dep I fron Dep I fron Dep Sparsely	or Crust (84) osits (85) on Visible on Ae Vegetated Const	of one state of on	ery (87) ace (88)		Vater-Stainin quatic Faur rue Aquatic Hydrogen St Oxfolgen Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) : Plants (I uifide Odo zosphere Reduced Reduction urface (C ell Data (I nin in Rem	314) or (C1) s on Living to Iron (C4) or in Titled S 7)		Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stre	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) alton (D2)
IYDROLC Wetland Hyc Primary Indic ✓ Surface V High Wat ✓ Saturatio Water Me Drift Dep Algal Mat Iron Dep Inundate Sparsely	or Crust (84) osits (85) on Visible on Ae Vegetated Const	rial Imag cave Surf	ery (87) ace (88)		Vater-Stains Aquatic Faur Frue Aquatic Aydrogen Subodized Rhi Presence of Recent Iron Thin Muck S Gauge or We	na (B13) : Plants (I uifide Odo zosphere Reduced Reduction urface (C ell Data (I nin in Rem	314) x (C1) s on Living I fron (C3) n in Tilled S 7) D99) narks)		Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stre	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) alton (D2)
IYDROLC Wetland Hyc Primary Indic Surface V High Wat Saturatio Water Ma Sediment Drift Dep I fron Dep I fron Dep I fron Dep I fron Dep Sparsely	OGY drology Indica ators (minimum Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) costls (B3) t or Crust (B4) osits (B5) on Visible on Ae Vegetated Cond vations: r Present?	of one state of on	ery (87) ace (88)		Vater-Stainin quatic Faur rue Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13): Plants (Elifide Odo; zosphere: Reduced Reduction urface (Cell Data (Elifinia in Rem thes):	314) or (C1) s on Living to Iron (C4) or in Titled S 7)	ols (C6)	Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wal Crayfish Burrow Saturation Visib Stunted or Stre Geomorphic Pot FAC-Neutral Tes	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) idion (D2) st (D5)
IYDROLC Wetland Hyc Primary Indic V Surface V High Wat Saturatio Onlft Dep Agai Mat Tron Dep Inundate Sparsely Field Observ Surface Wate Water Table 6 Saturation Pro	or Crust (84) osits (85) on Visible on Aer Vegetated Conceptations: r Present?	rial Imag cave Surf	ery (87) ace (88)		Vater-Staine quatic Fauricus Aquatic fydrogen Schooldiged Rhi- tresence of tecent Iron thin Muck Stauge or Wither (Explain Depth (Inc.)	na (B13): Plants (Entropy of the Control of the Con	314) x (C1) s on Living I fron (C3) n in Tilled S 7) D99) narks)	ols (C6)	Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stre	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) alton (D2)
IYDROLC Wetland Hyc Primary Indic ✓ Surface V High Wat ✓ Saturatio Water Me Drift Dep Iron Dep Inundate Sparsely Field Observ Surface Wate Water Toble Fo	OGY drology Indica ators (minimum Vater (A1) er Table (A2) n (A3) ators (B1) t Deposits (B2) tosits (B3) t or Crust (B4) osits (B5) on Visible on Ae Vegetated Cond vations: r Present? ersent?	rial Imag cave Surf. Yes Yes	ery (87) ace (88) • No (• No (• No (Vater-Stains quatic Faur rue Aquatic pydrogen Si pydr	na (B13) Plants (I P	314) x (C1) s on Living 9 Iron (C4) n in Titled S 7) D99) narks)	wet	Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wal Crayfish Burrow Saturation Visib Stunted or Stre Geomorphic Pot FAC-Neutral Tes	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)
IYDROLC Wetland Hyc Primary Indic ✓ Surface V High Wat ✓ Saturatio Water Me Drift Dep Iron Dep Inundate Sparsely Field Observ Surface Wate Water Toble Fo	OGY drology Indica ators (minimum Vater (A1) er Table (A2) n (A3) ators (B1) t Deposits (B2) tosits (B3) t or Crust (B4) osits (B5) on Visible on Ae Vegetated Cond vations: r Present? ersent?	rial Imag cave Surf. Yes Yes	ery (87) ace (88) • No (• No (• No (Vater-Stains quatic Faur rue Aquatic pydrogen Si pydr	na (B13) Plants (I P	314) x (C1) s on Living 9 Iron (C4) n in Titled S 7) D99) narks)	wet	Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wal Crayfish Burrow Saturation Visib Stunted or Stre V Geomorphic Po: V FAC-Neutral Tes	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) idion (D2) st (D5)
IYDROLC Wetland Hyc Primary Indic ✓ Surface V High Wat ✓ Saturatio Water Me Drift Dep Iron Dep Inundate Sparsely Field Observ Surface Wate Water Toble Fo	OGY drology Indica ators (minimum Vater (A1) er Table (A2) n (A3) ators (B1) t Deposits (B2) tosits (B3) t or Crust (B4) osits (B5) on Visible on Ae Vegetated Cond vations: r Present? ersent?	rial Imag cave Surf. Yes Yes	ery (87) ace (88) • No (• No (• No (Vater-Stains quatic Faur rue Aquatic pydrogen Si pydr	na (B13) Plants (I P	314) x (C1) s on Living 9 Iron (C4) n in Titled S 7) D99) narks)	wet	Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wal Crayfish Burrow Saturation Visib Stunted or Stre V Geomorphic Po: V FAC-Neutral Tes	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) idion (D2) st (D5)
IYDROLC Wetland Hyc Primary Indic ✓ Surface V High Wat ✓ Saturatio Water Me Sed ment Orift Dep Inundate Sparsely Field Observ Surface Water Water Table For Saturation Population Control Population Populatio	OGY drology Indica ators (minimum Vater (A1) er Table (A2) n (A3) ators (B1) t Deposits (B2) tosits (B3) t or Crust (B4) osits (B5) on Visible on Ae Vegetated Cond vations: r Present? ersent?	rial Imag cave Surf. Yes Yes	ery (87) ace (88) • No (• No (• No (Vater-Stains quatic Faur rue Aquatic pydrogen Si pydr	na (B13) Plants (I P	314) x (C1) s on Living 9 Iron (C4) n in Titled S 7) D99) narks)	wet	Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wal Crayfish Burrow Saturation Visib Stunted or Stre V Geomorphic Po: V FAC-Neutral Tes	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)
IYDROLC Wetland Hyc Primary Indic ✓ Surface V High Wat ✓ Saturatio Water Me Sed ment Orift Dep Inundate Sparsely Field Observ Surface Water Water Table For Saturation Population Control Population Populatio	OGY drology Indica ators (minimum Vater (A1) er Table (A2) n (A3) ators (B1) t Deposits (B2) tosits (B3) t or Crust (B4) osits (B5) on Visible on Ae Vegetated Cond vations: r Present? ersent?	rial Imag cave Surf. Yes Yes	ery (87) ace (88) • No (• No (• No (Vater-Stains quatic Faur rue Aquatic pydrogen Si pydr	na (B13) Plants (I P	314) x (C1) s on Living 9 Iron (C4) n in Titled S 7) D99) narks)	wet	Secondary Indicator Surface Soil Cra Drainage Patter Dry Season Wal Crayfish Burrow Saturation Visib Stunted or Stre V Geomorphic Po: V FAC-Neutral Tes	s (minimum of two required cks (B6) ns (B10) er Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)



LatLong or UTM : Long/Easting: Lat/Northing:

Description:



Photo File DSCN8556.JPG Orientation: -facing
Lat/Long or UTM: Long/Easting: Lat/Northing:
Description:

	Plot ID	: DP4w	Photo	Path: C:\WetForm\Jolie\Blac	k Diamond\Pho
Photo File: DSCN8562.JPG Long/Easting:	Orientation: Lat/Northing:	-facing Pho	oto File: DSCN8563.JPG Long/Easting:	Orientation: Lat/Northing:	-facing
Description:		Des	scription:		

No Photo

No Photo

Photo File: None.bn	np Orientation	:	-facing	Photo File: None.bmp	Orientation:	-facing
Long/Eas	sting:	Lat/Northing:		Long/Easting:	Lat/Northing:	
Description:				Description:		
A second						

,		CI	y/County: Christian	Sampling Date: 07-Nov-19
			- Marian (M. 14) 1	: Illinois Sampling Point: DP5w
licant/Owner: Swift Current			Section, Township, Range	
estigator(s): ES, JW				(concave, convex, none): concave
dform (hillslope, terrace, etc.): Lowla	and			D.1 WCC 94
e: 1.0% / 0.6 ° Lat.:	39.605207		Long.: -89.462440	Datum: WGS 84
Map Unit Name: Osco silt loam,	2 to 5 percent slopes			NWI classification: PEMIC
climatic/hydrologic conditions on the	site typical for this time	of year? Yes	No (If no, e	explain in Remarks.)
Vegetation , Soil	, or Hydrology	significantly dis	turbed? Are "N	formal Circumstances" present? Yes No
Vegetation , Soil .	, or Hydrology	naturally proble	ematic? (If nee	eded, explain any answers in Remarks.)
0.53	ttach eite man el	nowing same	olina point locatio	ons, transects, important features, etc.
	Yes No		, mig pomotocamo	
drophytic Vegetation Present?	Yes No No		Is the Sampled	
ydric Soil Present?			within a Wetlan	nd? Yes ● No ○
etland Hydrology Present?	Yes ● No ○			
Remarks:				
EGETATION - Use scie	ntific names of p	lants.	Dominant _ Species?	
101		Absolute % Cover	Rel.Strat. Indicator	
Tree Stratum (Plot size: 30ft)		0.6%	Number of Dominant Species That are OBL, FACW, or FAC:1(A)
1			0.0%	That are obt, then, of the.
2			0.0%	Total Number of Dominant Species Across Ali Strata: 3 (8)
3 4		*****	0.0%	Species Across Art Studies.
5.		0	0.0%	Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
		0	= Total Cover	That are OBC, PACYY, OF PAC.
Sapling/Shrub Stratum (Plot size: 15	5ft)			Prevalence Index worksheet:
1. Gled tsia triacanthos		3	✓ 50.0% FACU	Total % Cover of: Multiply by:
2. Lonicera maackii			✓ 50.0% UPL	OBL species 0 x 1 = 0
			0.0%	FACW species 100 x 2 = 200
		0	0.0%	FAC species 2 x 3 = 6 FACU species 3 x 4 = 12
5		6	= Total Cover	UPL species 3 x 5 = 15
Herb Stratum (Plot size: 5ft)		_	(1)
1. Phalaris arundinacea		100	▼ 98.0% FACW	Column Totals: 108 (A) 233 (B)
2. Toxicodendron radicans			2.0% FAC	Prevalence Index = B/A = 2.157
		0	0.0%	Hydrophytic Vegetation Indicators:
3.				
4			0.0%	1 - Rapid Test for Hydrologic Vegetation
4. 5.			0.0%	2 - Dominance Test is > 50%
4. 5. 6.				2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0 1
4. 5.			0.0%	2 - Dominance Test is > 50% 3 - Prevalence Index is ≤3.0 1 4 - Morphological Adaptations 1 (Provide supporting
4. 5. 6. 7.			0.0% 0.0% 0.0%	2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0 1
4. 5. 6. 7. 8.		0 0	0.0% 0.0% 0.0% 0.0%	2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
4. 5. 6. 7. 8. 9.		0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0%	2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
4. 5. 6. 7. 8. 9. 10. Woody Vine Stratum (Plot size: 15)		0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0%	2 - Dominance Test is > 50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
4. 5. 6. 7. 8.		0 0 0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	2 - Dominance Test is > 50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must

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Profile Descr			he depth r	needed to				nfirm the	absence of indicators.)	
Depth (inches)	Color (r	Matrix	%	Color	(moist)	ox Featu	Type 1	Loc2	Texture	Remarks
0-5	10YR	3/2	100	COIOT	moise		,,10,4,		Silty Clay	
5-16	10YR	3/2	83	7.5YR	3/3	10	C	PL	Silty Clay	
			2	10YR	5/6	5	C	М	Silty Clay	
+ mottle	10YR	5/2		IUTK	3/0				Saty Clay	
				and Matrix	CS - C	- Cost	od Sand Gr		² Location: PL=Pore Lining. I	M=Matrix
Type: C=Con		=Depletion	, км=кваи	ceo maurix,	C2=C0VE/E	d or coat	eu sanu Gr	2115.		122
Hydric Soil I				Co	ndy Gleyed	Matrix /S	41		Indicators for Problem	
Histosol (A	A1) bedon (A2)						*)		Coast Prairie Redox (A16)
Black Hist					ndy Redox (Dark Surface (\$7)	
Hydrogen					ipped Matri		-11		Iron Manganese Mass	es (F12)
Stratified				-	amy Mucky				Very Shallow Dark Su	rface (TF12)
2 cm Muc				-	amy Gleyed		2)		Other (Explain in Ren	narks)
_	Below Dark S	orface (A1	1)	-	pleted Matr				• • • • • • • • • • • • • • • • • • • •	17
	k Surface (Al		/	grown h	dox Dark Su				2	
	ick Mineral (S				pleted Dark				Indicators of hydrophy wetland hydrology	tic vegetation and
	ky Peat or Pe			L Re	dox Depres	sions (F8)			wetland hydrology of unless disturbed o	
Restrictive L	ayer (if obs	erved):								
Type:										Yes ● No ○
Depth (inc Remarks:	hes):								Hydric Soil Present?	Yes ® No U
Remarks:									Hydric Soil Present?	Yes © NO U
Remarks:	OGY Irology Indi									
Remarks:	OGY Irology Indi		is required:						Secondary Indicato	vs.(minimum of two required.
Remarks: HYDROLO Wetland Hyd Primary Indic	OGY Irology Indi		is required:		nat apoly) _ Water-Stain	ed Leaves	s (B9)		Secondary Indicate Surface Soil Cr	ors.fminimum of two required. acks (86)
Remarks: HYDROLO Wetland Hyd Primary Indic. Surface V	OGY frology Indi	of one.	is required:	\Box			s (B9)		Secondary Indicate Surface Soil Cr Drainage Patte	ors/minimum of two required acks (86) rns (810)
Remarks: HYDROLO Wetland Hyd Primary Indic. Surface V	OGY frology Indi ators (minimi Water (A1) er Table (A2)	of one.	is required:		Water-Stain	na (B13)			Secondary Indicate Surface Soil Cr	ors/minimum of two required acks (86) rns (810)
AYDROLC Wetland Hyd Primary Indic Surface V High Wat	OGY Irology Indi ators (minimu Water (A1) er Table (A2) n (A3)	of one.	is required:		Water-Stain Aquatic Fau	na (B13) c Piants (E	314)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season We Crayfish Burron	ers.fminimum of two required. acts (86) rns (810) oter Table (C2) vs (C8)
HYDROLC Wetland Hyd Primary Indic Surface V High Wat Saturation	OGY frology Indi ators (minime Vater (A1) er Table (A2) n (A3) orks (B1)	um of one.	is required:		Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh	na (B13) c Plants (E ulfide Odo izosphere	314) or (C1) s on Living !	Roots (C3)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season We Crayfish Burrot Saturation Visit	ers (minimum of two required_ acks (86) rns (810) ster Table (C2) ss (C8) ofe on Aerial Imagery (C9)
Remarks: HYDROLC Wetland Hyd Primary Indic. Surface V High Wat Saturation Water Ma	OGY Irology India alors (minimu Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2)	um of one.	is required:		Water-Stain Aquatic Fau True Aquat i Hydrogen Si	na (B13) c Plants (E ulfide Odo izosphere	314) or (C1) s on Living !	Roots (C3)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season We Crayfish Burror Saturation Visit	ers fminimum of two required_ acks (86) rns (810) ster Table (C2) vs (C8) ple on Aerial Imagery (C9) assed Plants (D1)
AYDROLO Wetland Hyc Primary Indic. Surface V High Wat Saturation Water Ma Sediment Drift Dep	OGY Irology India alors (minimu Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2)	um of one.	is required:		Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh	na (B13) c Piants (E ulfide Odo izosphere Reduced	314) or (C1) s on Living ! Iron (C4)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burror Saturation Visit Stunted or Str	ers fminimum of two required acks (86) rns (810) ster Table (C2) vs (C8) ble on Aerial Imagery (C9) assed Plants (D1) sistion (D2)
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AYDROLO Wetland Hyd Primary Indic. Surface V High Wat Saturation Water Ma Sediment Drift Dep Algal Mat Iron Depi	JOGY Irology Indi alors (minimu vater (A1) er Table (A2) n (A3) Deposts (B1) Deposts (B3) or Crust (B4) osts (B5)	um of one. R) Aerial Imag	ge.γ (B7)		Water-Stain Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (E uifide Odo izosphere Reduced Reduction iurface (C lell Data (I	314) or (C1) s on Living! Iron (C4) n in Tilled S 7)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burror Saturation Visit Stunted or Str	ers fminimum of two required acks (86) rns (810) ster Table (C2) vs (C8) ble on Aerial Imagery (C9) assed Plants (D1) sistion (D2)
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Remarks: HYDROLO Wetland Hyc Primary Indic Surface V High Wat Saturation Water Ma Sedment Orift Dep A'gal Mat Iron Dep Inundation Sparsely Field Observ Surface Water Table E Saturation Pro	JOGY Irology India lators (minimi vater (A1) er Table (A2) nrks (B1) Deposts (B2) or Crust (B4) outs (B5) on Visible on a Vegetated Covations: r Present? Present?	ym of one. 2)) Aerial Imagoncave Sur	gery (B7) face (BS)		Water-Stain Aquatic Faur True Aquatic Hydrogen Si Oxidized Rin Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (inc	na (B13) c Piants (E prints (E prints (E prints (B)) c Piants (B) c Pi	314) or (C1) s on Living! Iron (C4) n in Tilled S 7)	oils (C6)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burror Saturation Visit Stunted or Str	ers fminimum of two required acks (86) rns (810) ster Table (C2) vs (C8) ble on Aerial Imagery (C9) assed Plants (D1) sistion (D2)
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Photo File: DSCN8573.JPG Orientation: -facing

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Special Current Special Cur	estigator(s): E5, JW diform (hillslope, terrace, etc.): Flat pe:0.0% _ /0.0 ° Lat.: 39.609042 [Map Unit Hame: Ipava, silt loam, 0 to 2 percent slopes	? Yes (sicantly displayed all problem of the control of the contro	Local relief (community to cal relief (communi	ESS T 13N R 3W Concave, convex, none): flat Datum: WGS 84 NWI classification: PEM1AF Explain in Remarks.) Cormal Circumstances' present? Yes No Concave, convex, none): flat Area dd, explain any answers in Remarks.) Ins, transects, important features, etc. Area dd? Yes No Concave, none Concave, convex, none): flat Double Secured Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
Datum WGS 94 Datu	per	? Yes (sicantly displayed all problem of the control of the contro	Local relief (compared to the following point location) Is the Sampled within a Wetlan within a Wetlan location Dominant Species? Rel.Strat. Cover Status 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	Datum: WGS 84 NWI classification: PEM1Af Applain in Remarks.) Armai Circumstances" present? Yes No Area ddd, explain any answers in Remarks.) Area dd? Yes No Pesumed Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Defects Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: Defects Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: Dominance Test worksheet: Total Mumber of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: Number of Dominant Species That Are OBL, FACW, or FAC: Dominance Test worksheet: Total % Cover of: Multiply by: OBL species O x 1 = O FACW species O x 2 = O
Doctor 0,0% 1 0,0 % Lat. 39,609042 Long: -89,459458 Datum: WGS 84	Pee:	Absolute % Cover 0 0 0 0 0	Long.: -89.458458 No (If no, exturbed? Are No matter) Is the Sampled within a Wetlan Dominant Species? Rel.Strat. Cover Status 0.0% 0.0% 0.0% 0.0% 10.0%	Datum: WGS 84 NWI classification: PEM1Af Aplain in Remarks.) Permai Circumstances' present? Yes No Coded, explain any answers in Remarks.) Ins, transects, important features, etc. Area d? Yes No Coded Pesumed Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A) Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
April Table Tabl	Map Unit Name: Ipava silt loam, 0 to 2 percent slopes	Absolute % Cover 0 0 0 0 0	Is the Sampled within a Wetlan Dominant Species? Rel.Strat. Cover 0.0% 0.0% 0.0% 1.0% 0.0%	NWI classification: PEM1Af xplain in Remarks.) crmal Circumstances' present? Yes No Coded, explain any answers in Remarks.) ms, transects, important features, etc. Area d? Yes No Coded No C
re climatic hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) re Vegetation	climatic/hydrotogic conditions on the site typical for this time of year? Evegetation	Absolute % Cover 0 0 0 0 0	turbed? Are "Nomatic? (If near point location is the Sampled within a Wetlan area, tiling properties? Rel. Strat. Cover 0.0%	Area d7 Yes No C Total Number of Dominant Species That Are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply by: OBL species Q x 2 = Q FACW species Q x 2 = Q
Very Section Very Section Very Sequence Very Seque	**Regetation	Absolute % Cover 0 0 0 0 0	turbed? Are "Nomatic? (If near point location is the Sampled within a Wetlan area, tiling properties? Rel. Strat. Cover 0.0%	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species Total % Cover of: Multiply by: OBL species Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Description of Dominant Species That Are OBL, FACW, or FAC: Description
Very Section Very Section Very Sequence Very Seque	**Regetation	Absolute % Cover 0 0 0 0 0	turbed? Are "Nomatic? (If near point location is the Sampled within a Wetlan area, tiling properties? Rel. Strat. Cover 0.0%	Area d? Yes No C Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Descent of dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Descent of dominant Species That Are O
HUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. **Hydrophytic Vagelation Present?** Yes ● No □ **Wethand Hydrology Present?** Yes ● No □ **Wethand Hydrology Present?* Ves ● No □ **Wethand Hydrology Present?* **Ves ● No □ **Wethand?* **Yes ● No □ **Wethand?* **Yes ● No □ **Wethand?* **Ves ● No □ **Wethand?* **Ves ● No □ **Wethand?* **Westatum (Plot size: 15ft	JMMARY OF FINDINGS - Attach site map showing properties of the pro	Absolute % Cover 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Is the Sampled within a Wetlan Led, Zea mays, tiling property of the second se	Area dd? Yes No O Pesumed Tobal Number of Dominant Species That are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
Is the Sampled Area within a Wetland? Yes No No Yes No Yes No No Yes No No Yes	Addrechytic Vegetation Present? Yes No Cydric Soil Present? Yes No Cydric Soil Present? Remarks: Cultivated cropland with saturated soil and standing water, recommendation of plants. Tree Stratum (Plot size: 30ft) 1. 2. 3. 4. 5. Saphna/Shrub Stratum (Plot size: 15ft) 1. 2. 3. 4. 5. Herb Stratum (Plot size: 5ft) 1, Zea mays 2. 3. 4.	Absolute % Cover 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Is the Sampled within a Wetlan ed, Zea mays, tiling pr Dominant Species? Rel.Strat. Cover 0.0% 0.0% 0.0% 0.0% 1 Total Cover 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Area d? Yes No No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: O (A) Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: O.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
Address Present? Yes No No	Addrechytic Vegetation Present? Yes No Cydric Soil Present? Yes No Cydric Soil Present? Remarks: Cultivated cropland with saturated soil and standing water, recommendation of plants. Tree Stratum (Plot size: 30ft) 1. 2. 3. 4. 5. Saphna/Shrub Stratum (Plot size: 15ft) 1. 2. 3. 4. 5. Herb Stratum (Plot size: 5ft) 1, Zea mays 2. 3. 4.	Absolute % Cover 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Is the Sampled within a Wetlan ed, Zea mays, tiling pr Dominant Species? Rel.Strat. Cover 0.0% 0.0% 0.0% 0.0% 1 Total Cover 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Area d? Yes No No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: O (A) Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: O.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
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Prevalence Index worksheet: 1.	1	0 0 0	0.0% 0.0% 0.0%	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
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Zea mays 25	1 Zea mays 2. 3. 4.	0	= Total Cover	UPL species 25 x 5 = 125
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Vegetation Vac 9 No		_	and the second s	Venetation
Name of the second seco				
		nut i demonstrative		3500 2000 250
	Vegetation disturbed, atypical due to active cultivation. Site la typical/undisturbed situation due to presence of hydric soils ar	!		A Principle of the American Company of the American Company of the American Company of the Compa

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

US Army Corps of Engineers

ype: C=Concentration, D=Depretion, RPI=Reduced Matrix, CS=Covered or Coated Sand Grams. Vigin: Sall Indicators: Visition Sall Indicators Visition Sall Indicators: Visition Sall Indicators Visit	DIL							oint: DP6w
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Histoc Epipedon (A2)		=Reduced Matri	x, CS = Cover	ed or Coate	d Sand Gra	ins.		
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Hydrogen Suifide (A4)			-0.0100-0.0000				Dark Surface (\$7)	
Stratified Layers (AS) Loamy Mucky Mineral (F1) Very Snallow Dark Surface (TF12) Depicted Below Dark Surface (A11) Redox Dark Surface (F2) Depicted Below Dark Surface (A12) Depicted Bark Surface (F3) Tinck Dark Surface (A12) Depicted Dark Surface (F3) Tinck Dark Surface (A12) Dark Surface Surface (A12) Dark Surface Surface (A12) Dark Sur		p					Iron Manganese Mass	es (F12)
2 cm Huck (AID) Depleted Below Dark Surface (A11) Inck Dark Surface (A12) Sandy Muck Meneral (S1) Sandy Muck Meneral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Sestrictive Layer (if observed): Type: Deplt (Inches): Hydric Soil Present? Yes ● No ○ Depleted Mark (P2) Surface Water (A1) Surface Water Water (A1) Surface Water (A1) Surface Water Water (A1) Surface Water Water (A1) Surface Water Water (A1) Surface Water Marks (B1) Surface Soil Cracks (B6) Dranage Patterns (B.0) Surface Soil Cracks (B6) Dranage Patterns (B.0) Surface Water Marks (B1) Surface Water All Marks (B1) Surface Water All Marks (B1) In Marks Surface (C7) FAC:Neutral Test (D5) In Marks Surface (C7) FAC:Neutral Test (D5) Adautation Present? Yes ● No Depth (inches): Surface Water All Marks (B1) Surface Water All Ma	_	LL	oamy Mucky	Mineral (F:	1)			
Depicted Below Dark Surface (A11) Redox Dark Surface (F6) Tink Dark Surface (A12) Sandy Muck Mineral (S1) Som Mucky Peat or Peat (S3) estrictive Layer (if observed): Type: Depit (inches): Hydric Soil Present? Yes No Postagrafia (A12) Water Stained Leaves (B9) Water Table (A2) Water Marks (B1) Water Table (A2) Water Marks (B1) Water Marks (B1) Depit (inches): Water Marks (B1) Depit (inches): Water Marks (B1) Depit (inches):		L] L	oamy Gleyed	Matrix (F2)			
Thick Dark Surface (A12) Sandy Muck Mercal (S1) Set Mucky Peat or Peat (S3) Settictive Layer (if observed): Type: Depite (inches): Page P		✓ 0	epleted Matr	ix (F3)			Utner (Explain in Rem	arks)
Sandy Muck Mineral (S1)		☐ R	edox Dark S	urface (F6)				
Secondary Indicators (Fine and (S) uniform the present, uniform the present uniform t	Thick Dark Surface (A12)		epleted Dark	Surface (F	7)		3 Indicators of hydrophyl	c vegetation and
Semantic Layer (if observed):	Sandy Muck Mineral (S1)	Пв	edox Deores	sions (F8)			wetland hydrology n	oust be present,
Type: Depth (inches): Hydric Soil Present? Yes No Depth (inches): No D	5 cm Mucky Peat or Peat (S3)						un'ess disturbed or	problematic.
Wetland Hydrology Indicators: **Trimary Indicators (minimum of one is required; check all that apoly). Surface Water (A1) High Water Table (A2) High Water Table (A2) Water Stained Leaves (B9) Saturation (A3) True Aquatic Flants (B14) Derive Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Derive Deposits (B3) Derive Deposits (B3) Presence of Reduced Iron (C4) Avgal Mat or Crust (B4) Iron Deposits (B5) Inin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Table Present? Yes No Depth (inches): Sedimant Deposits (B3) Depth (inches): Sedimant Deposits (B3) Depth (inches): Sediment Deposits (B10) Depth (inches): Sediment Deposits (B10) Depth (inches): Sediment Deposits (B10) Secondary Indicators (inches): Secondary Indicators (in								
Secondary Indicators (minimum of one is required: check all that apoly) Surface Water (A1) Water Stained Leaves (B9) Surface Water (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Water Marks (B1) Dry Season Water Table (C2) Water Marks (B1) Dry Season Water Table (C2) Crayfish Burrows (C3) Drift Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Argal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Depth (inches): Surface Sol Cracks (B6) Drainage Patterns (B10) Drai	YDROLOGY							
Surface Water (A1)	Vetland Hydrology Indicators:							
✓ High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ✓ Saturation (A3) True Aquatic Plants (B14) Dry Season Water Table (C2) Water Marks (B1) Hydrogen Surfide Odor (C1) Crayfish Burrows (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C+) ✓ Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Titled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? Yes No Depth (inches): 5 Depth (inches): 6 Depth (inches): 0 Wetland Hydrology Present? Yes No Depth (inches): 1 Wetland Hydrology Present? Yes No Depth (inches): 1 Wetland Hydrology Present? Yes No No Depth (inches): 1 Depth (inches): 0 Wetland Hydrology Present? Yes No No Depth (inches): 1 No Depth (inches): 1 Depth (inches): 2 Depth (inches): 3 Depth (inches): 3 Depth (inches): 4 Depth (inches): 4 Depth (inches): 5 Depth (inc	Primary Indicators (minimum of one is rec	ovired: check all	that apply)				Secondary Indicato	s (minimum of two required
Valuation (A3)	✓ Surface Water (A1)		Water-Stain	ed Leaves	(B9)		Surface Soil Cra	cks (B6)
Water Marks (B1)	High Water Table (A2)		Aquatic Fau	na (B13)			Drainage Patter	ns (B10)
Water Marks (B1)	Saturation (A3)		True Aquati	c Piants (B	14)		Dry Season Wal	er Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) A'gal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Ield Observations: urface Water Present? Yes No Depth (inches): 5 Water Table Present? Yes No Depth (inches): 0 Depth (inches): 0 Wetland Hydrology Present? Yes No Depth (inches): 0			Hydrogen S	u'fide Odor	(C1)		Crayfish Burrow	s (C3)
Drift Deposits (B3)						oots (C3)		
Afgal Mat or Crust (84) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: urface Water Present? Yes No Depth (inches): 5 Vater Table Present? Yes No Depth (inches): 6 alturation Present? Yes No Depth (inches): 0 Wetland Hydrology Present? Yes No Depth (inches): 0 No Depth (inches): 0 wetland Hydrology Present? Yes No Depth (inches): 0 wetland Hydrology Present? Yes No Depth (inches): 0						, ,		
Iron Deposits (B5)		=				de (CA)		
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: urface Water Present? Yes No Depth (inches): 5 Vater Table Present? Yes No Depth (inches): 6 aturation Present? Yes No Depth (inches): 0 Wetland Hydrology Present? Yes No Depth (inches): 0 wetland Hydrology Present? Yes No Depth (inches): 0 escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						13 (00)		0.00000003
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: urface Water Present? Yes No Depth (inches): 5 Vater Table Present? Yes No Depth (inches): 6 aturation Present? Yes No Depth (inches): 0 Wetland Hydrology Present? Yes No Depth (inches): 0 escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		, L					FACHEGUALTES	it (03)
Field Observations: Surface Water Present? Yes No Depth (inches): 5 Water Table Present? Yes No Depth (inches): 6 Saturation Present? Yes No Depth (inches): 0 Wetland Hydrology Present? Yes No Depth (inches): 0 Wetland Hydrology Present? Yes No No No Depth (inches): 0 Wetland Hydrology Present? Yes No		1		1000 - 2011 - 200 to (1770)				
wriface Water Present? Yes No Depth (inches): 5 Vater Table Present? Yes No Depth (inches): 6 Vater Table Present? Yes No Depth (inches): 6 Vater Table Present? Yes No Depth (inches): 0 Vater Table Present? Yes No Depth (inches): 0 Vater Table Present? Yes No No Depth (inches): 0 Vater Table Present? Yes No No No Depth (inches): 0 Vater Table Present? Yes No No No No No Depth (inches): 0 Vater Table Present? Yes No	Sparsely Vegetated Concave Surface	(E8)	Other (Expl	ain in Rema	irks)			
Vater Table Present? Yes No Depth (inches): 6 wetland Hydrology Present? Yes No Depth (inches): 0 wetland Hydrology Present? Yes No Depth (inches): 0 lescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ield Observations:	-				T		
Vater Table Present? Yes No Depth (inches): 6 wetland Hydrology Present? Yes No Depth (inches): 0 wetland Hydrology Present? Yes No Depth (inches): 0 lescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Water Present? Yes Yes	No O	Depth (inc	thes):	5	. 1		
Saturation Present? Yes No Depth (inches): 0 Wetland Hydrology Present? Yes No Depth (inches): 0 Wetland Hydrology Present? Yes No Depth (inches): 0 No Depth (inches): 0 No Depth (inches): 0 No No Depth (inches): 0 No Depth (inches			Danth (inc	has).	6			
resulted presents Yes No Depth (inches): 0 Depth (inches): 0 Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		0.000	Deptil (alk			Wet	land Hydrology Present?	Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		No 🔾	Depth (inc	hes):	0			
Remarks:		ne monitoring	well, aerial	photos, p	revious in	spection	s), if available:	
Remarks:	resemble recorded batta (or some gent	ge, montoning						
	2000 Metalaga Dalai (00 00m 30-1	ge, montoring						
		ge, moratoring						



Photo File DSCN8596.JPG Orientation:

Lat/Northing:

Description:



Photo File: DSCN8598.JPG Orientation: -facing
Lat/Long or UTM: Long/Easting: Lat/Northing:

Description:

roject/Site: Black Diamond	City/6	County: Christian	Sampling Date: 07-Nov-19
pplicant/Owner: Swift Current		State:	Illinois Sampling Point: DP6u
nvestigator(s): ES, JW		tion, Township, Range:	S 5 T 13N R 3W
andform (hillstone terrace etc.): Flat		Local relief (co	encave, convex, none): flat
, , , , , , , , , , , , , , , , , , ,		Long.: -89.458513	Datum: WGS 84
ope: _0,0% / _0.0 ° Lat.: 39.609379	-	Long.: 489.430313	MWI classification: None
od Map Unit Name: Ipava silt loam, 0 to 2 percent slope	yes (e)	No O (If no ex	olain in Remarks.)
re climatic/hydrologic conditions on the site typical for this time	cryear/ res	had? Assillar	rmal Circumstances" present? Yes • No •
re Vegetation 🔲 , Soil 🗌 , or Hydrology 🔛			ed, explain any answers in Remarks.)
UMMARY OF FINDINGS - Attach site map s	howing sampli	ng point location	s, transects, important features, etc.
hydrophytic Vegetation Present? Yes O No 💿			
tydric Soil Present? Yes O No		Is the Sampled Am within a Wetland	
Wetland Hydrology Present? Yes O No			ia cho
Remarks:			
Active agricultural field			
VEGETATION - Use scientific names of p	dante I	Dominant	
VEGETATION - OSE SCIENTIFIC HARRIES OF		Species?	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft)	% Cover	Cover Status	Number of Dominant Species
1.	0	0.0%	That are OBL, FACW, or FAC: 0 (A)
2	0	0.0%	Total Number of Dominant
3.	0	0.0%	Species Across All Strata: 1 (B)
4		0.0%	Percent of dominant Species
5.	. 0	0.0%	That Are OBL, FACW, or FAC: 0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15ft)	0 =	Total Cover	Prevalence Index worksheet:
	0	0.0%	Total % Cover of: Multiply by:
1. 2.	0	0.0%	OBL species 0 x 1 = 0
3.		0.0%	FACW species $0 \times 2 = 0$
4.	•	0.0%	FAC species $0 \times 3 = 0$
5.	0	0.0%	FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5ft)	0 =	Total Cover	UPL species $50 \times 5 = 250$
1 Zea mays	50 5	100.0% UPL	Column Totals: 50 (A) 250 (B)
2.	0	0.0%	Prevalence Index = B/A = 5.000
3.	0	0.0%	Hydrophytic Vegetation Indicators:
4.		0.0%	1 - Rapid Test for Hydrologic Vegetation
5		0.0%	2 - Dominance Test is > 50%
6	0	0.0%	3 - Prevalence Index is ≤3.0 1
7.	0	0.0%	4 - Morphological Adaptations 1 (Provide supporting
8. 9.	0	0.0%	data in Remarks or on a separate sheet)
10.	0	0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
		= Total Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
.Woody Vine Stratum (Plot size: 15ft)		-	be present, unless disturbed or problematic.
1		0.0%	Hydrophytic
2.	0 1	0.0%	Vegetation Present? Yes No No
	0	- Total Cover	Trescard
	ata chaat \		
Remarks: (Include photo numbers here or on a separa	ite sieet.)		

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

US Army Corps of Engineers

					aocument	the maic	ator or co	min di		
			ic deptil iii						absence of indicators.)	
Depth (inches)	Color (i	Matrix	%	Color (moist)	lox Featur	Type ¹	Loc2	Texture	Remarks
0.8	10YR	3/2	100						Silty Clay Loam	
8-16	10YR	3/2	99	10YR	5/1	1	D .	М	Silty Clay Loam	
9-10										
Type: C=Cond		=Depletion,	RM=Reduc	ed Matrix,	CS=Covere	ed or Coate	ed Sand Gr	ains.	² Location: PL=Pore Lining.	
Hydric Soil I									Indicators for Problem	natic Hydric Soils 3:
Histosol (/					ndy Gleyed)		Coast Prairie Redox (A16)
Black Histi	bedon (A2)				ndy Redox				Dark Surface (S7)	
	Sulfide (A4)			process.	ipped Matri		.,		☐ Iron Manganese Mass	es (F12)
	Layers (A5)				my Mucky				Very Shallow Dark Su	rface (TF12)
2 cm Muc					amy Gleyed		.)		Other (Explain in Ren	narks)
	Below Dark S	Surface (A11)	-	pleted Matr				• • • • • • • • • • • • • • • • • • • •	
	k Surface (Al		,		dox Dark S				3	
	ck Mineral (S			post o	pleted Dark		-/)		Indicators of hydrophy wetland hydrology	tic vegetation and
	ky Peat or Pe			Rec	dox Depres	sions (F8)			unless disturbed o	r problematic.
Type: Depth (inc									Hydric Soil Present?	Yes O No •
Type: Depth (inci Remarks:	hes):	circa).							Hydric Soil Present?	Yes O No 🖲
Type:	hes):								Hydric Soil Present?	Yes No 🖲
Type:	hes): DGY drology Indi	icators:	s required: 6	heck all tr	nat accivi					Yes No No vs (minimum of two required
Type:	OGY Irology Indiators (minimum	icators:	s required: (ed Leaves	(B9)		Secondary Indicate	ors (minimum of two required
Type:	OGY frology Indiators (minimized Water (A1)	icators: um of one is	s required; o	\	Water-Stain		(89)			ors (minimum of two required acks (86)
Type:	DGY frology Indiators (minimulyater (A1) er Table (A2)	icators: um of one is	s required: (Water-Stain Aquatic Fau	na (813)			Secondary Indicate Secondary Indicate Secondary Indicate	ors (minimum of two required acks (86) rns (810)
Type:	DGY drology Indi ators (minim Vater (A1) er Table (A2)	icators: um of one is	s required: o		Water-Stain Aquatic Fau Frue Aquati	na (813) c Plants (8	14)		Secondary Indicate Secondary Indicate Drainage Patte	ers (minimum of two required acks (86) rns (810) ster Table (C2)
Type:	DGY frology Indiators (minimus) vater (A1) er Table (A2) n (A3) rrks (B1)	icators: uum of one is	s required; c		Water-Stain Aquatic Fau Frue Aquati Hydrogen S	na (B13) c Plants (B ulfide Odor	14) (C1)	Roots (C3)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Will Crayfish Burro	ers (minimum of two required acks (86) rns (810) ster Table (C2)
Type:	DGY frology Indi ators (minim Vater (A1) er Table (A2) n (A3) erks (B1) t Deposits (B)	icators: uum of one is	s required: (Water-Stain Aquatic Fau Irue Aquati Hydrogen S Oxidized Rh	na (B13) c Plants (B ulfide Odor izospheres	14) (C1) on Living	Roots (C3)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wi Crayfish Burro Saturation Visi	ors (minimum of two required acks (86) rns (810) oter Table (C2) ws (C8)
Type:	DGY Introduction (Mainter State (Ma	icators: uum of one la)	s required: c		Water-Stain Aquatic Fau Frue Aquati Hydrogen S	na (B13) c Plants (B ulfide Odor izospheres Reduced I	14) (C1) on Living fron (C4)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wi Crayfish Burro Saturation Visi	ors (minimum of two required acks (86) rns (810) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) assed Plants (D1)
Type:	DGY Irology India ators (minim Vater (A1) er Table (A2) rrks (B1) Deposits (B) osits (B3) er Crust (B4)	icators: uum of one la)	s required: c		Water-Stain Aquatic Fau Frue Aquati Hydrogen S Oxidized Rh Presence of Recent Iron	na (B13) c Plants (B iu/fide Odor izospheres f Reduced I Reduction	(C1) on Living fron (C4) in Tilled S		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Will Crayfish Burror Saturation Vise Stunted or Str	ors fminimum of two required acks (86) rns (810) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) sistion (D2)
Type:	DGY Irology India ators (minim Vater (A1) er Table (A2) rrks (B1) Deposits (B) osits (B3) er Crust (B4)	icators: um of one 3) 2)			Water-Stain Aquatic Fau Frue Aquati Hydrogen S Oxidized Rh Presence of	na (B13) c Plants (B u/fide Odor izospheres f Reduced I i Reduction Surface (C7	14) (C1) on Living fron (C4) in Tilled S		Secondary Indicate Surface Soil Cr Drainage Patte i Dry Season Wi Crayfish Burror Saturation V.sr Stunted or Stn Geomorphic Re	ors fminimum of two required acks (86) rns (810) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) sistion (D2)
Type:	DGY Irology India ators (minim Vater (A1) er Table (A2) nrks (B1) t Deposits (B; osits (B3) or Crust (B4) osits (B5)	icators: um of one is))) Aerial Image	ery (B7)		Water-Stain Aquatic Fau Frue Aquati Hydrogen S Oxidized Rin Presence of Recent Iron Thin Muck S	na (B13) c Plants (B wifide Odor izospheres Reduced I Reduction Surface (C7 /eli Data (D	14) r (C1) on Living fron (C4) in Tilled S r)		Secondary Indicate Surface Soil Cr Drainage Patte i Dry Season Wi Crayfish Burror Saturation V.sr Stunted or Stn Geomorphic Re	ors fminimum of two required acks (86) rns (810) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) sistion (D2)
Type:	DGY Irology India ators (minimulators (mini	icators: um of one is))) Aerial Imagoncava Surfi	ery (B7) ace (B8)		Water-Stain Aquatic Fau Aquatic Fau Aquatic Fau Aquatic Fau Aquatic A	na (B13) c Plants (B urifide Odor izospheres Reduced I r Reduction Surface (C7 /eli Data (D	14) r (C1) on Living fron (C4) in Tilled S r)		Secondary Indicate Surface Soil Cr Drainage Patte i Dry Season Wi Crayfish Burror Saturation V.sr Stunted or Stn Geomorphic Re	ors fminimum of two required acks (86) rns (810) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) sistion (D2)
Type:	DGY drology Indi ators (minim Vater (A1) er Table (A2) n (A3) erks (B1) t Deposits (B3) or Crust (B4 osits (B3) on Visble on Vegetated Co vations:	icators: um of one is))) Aerial Image	ery (B7) ace (B8)		Water-Stain Aquatic Fau Frue Aquati Hydrogen S Oxidized Rin Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B urifide Odor izospheres Reduced I r Reduction Surface (C7 /eli Data (D	14) r (C1) on Living fron (C4) in Tilled S r)		Secondary Indicate Surface Soil Cr Drainage Patte i Dry Season Wi Crayfish Burror Saturation V.sr Stunted or Stn Geomorphic Re	ors fminimum of two required acks (86) rns (810) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) sistion (D2)
Type:	DGY Irology India ators (minimulators (mini	icators: um of one is))) Aerial Imagoncava Surfi	ery (87) ace (88)		Water-Stain Aquatic Fau Aquatic Fau Aquatic Fau Aquatic Fau Aquatic A	na (B13) c Plants (B duffide Odor izospheres Reduced I Reduction Surface (C7/ /eli Data (D ches):	14) r (C1) on Living fron (C4) in Tilled S 7)	o∃s (C6)	Secondary Indicate V Surface Sol Cr Drainage Patte Dry Season Will Crayfish Burror Saturation Vision Stunted or Str Geomorphic Re FAC-Neutral Tri	ors (minimum of two required acks (86) rns (810) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Pants (D1) sistion (D2) est (D5)
Depth (inci Remarks: HYDROLO Wetland Hyd Pomary, Indici Surface W High Wat Sediment Drift Dep Algal Mat Iron Dept Inundatio Sparsely Field Observ Surface Water Table F Saturation Pro	DGY Irology India ators (minim Vater (A1) er Table (A2) n (A3) rrks (B1) er Crust (B4) osits (B5) on Visible on Vegetated Co vations: r Present? Present?	icators: um of one is) 2) Aerial Image	ery (B7) acc (B8) O No (C) No (C)		Water-Stain Aquatic Fau Frue Aquati Hydrogen S Doddized Rin Presence of Recent Iron Thin Muck S Gauge or W Depth (in	na (B13) c Plants (B c Plants (B cuffide Odor izospheres Reduced I Reduction Surface (C7 /eii Data (C aain in Rem ches):	14) r (C1) on Living fron (C4) in Tilled S 7)	o∃s (C6)	Secondary Indicate Surface Soil Cr Drainage Patte i Dry Season Wi Crayfish Burror Saturation V.sr Stunted or Stn Geomorphic Re	ors fminimum of two required acks (86) rns (810) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) sistion (D2)
Type:	DGY drology India ators (minim Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B) or Crust (B4 osits (B3) or Visible on Vegetated Co vations: r Present? Present?	icators: um of one is) 2) Aerial Imago oncave Surfa Yes Yes Yes	ery (87) ace (88) O No (O No (O No (Water-Stain Aquatic Fau Frue Aquati Hydrogen S Oxidized Rin Presence of Recent Iron Thin Muck S Gauge or W Other (Expl Depth (in Depth (in)	na (B13) c Plants (B c Plants	14) (C1) on Living fron (C4) in Tilled S () () () () () () () () ()	ols (C6)	Secondary Indicate V Surface Sol Cr Drainage Patte Dry Season Will Crayfish Burror Saturation Vision Stunted or Str Geomorphic Re FAC-Neutral Tri	ors (minimum of two required acks (86) rns (810) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Pants (D1) sistion (D2) est (D5)
Type:	DGY drology India ators (minim Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B) or Crust (B4 osits (B3) or Visible on Vegetated Co vations: r Present? Present?	icators: um of one is) 2) Aerial Imago oncave Surfa Yes Yes Yes	ery (87) ace (88) O No (O No (O No (Water-Stain Aquatic Fau Frue Aquati Hydrogen S Oxidized Rin Presence of Recent Iron Thin Muck S Gauge or W Other (Expl Depth (in Depth (in)	na (B13) c Plants (B c Plants	14) (C1) on Living fron (C4) in Tilled S () () () () () () () () ()	ols (C6)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wi Crayfish Burro Saturation Vis Stunted or Str Geomorphic Pt FAC-Neutral Tr	ors (minimum of two required acks (86) rns (810) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Pants (D1) sistion (D2) est (D5)



Photo File: DSCN8601.JPG Orientation: -facing

Lat/Long or UTM : Long/Easting: Lat/Northing:

Description:



Photo File DSCN8602.JPG Orientation: -facing

Lat/Long or UTM: Long/Easting: Lat/Northing:

Description:

roject/Site: Black Diamond		Cit	y/Cour	ity:	Christian	Sampling Date: 07-Nov-19
oplicant/Owner: Swift Current					State:	Illinois Sampling Point: DP7w
ivestigator(s): ES, JW		9	Section	, Town	ship, Range:	s 5 T 13N R 3W
andform (hillslope, terrace, etc.): Swa	ale			ı	ocal relief (c	oncave, convex, none): concave
ope: 5.0% / 2.9 ° Lat.:	39 610581		Lo	ng.: -	89,459416	Datum: WGS 84
Map Unit Name: Ipava silt loar			- Bandle -	-		NWI classification: PFOIC
e climatic/hydrologic conditions on the	na site typical for this time of	year? Yes	● No	0	(If no, ex	oplain in Remarks.)
e Vegetation , Soil		gnificantly dis			Are "No	ermal Circumstances" present? Yes No
		aturally proble				ded, explain any answers in Remarks.)
, 1230-11-1		3553				ns, transects, important features, etc.
ydrophytic Vegelation Present?	Yes No	ving same	J9	poin		tansacs, important control, and
ydric Soil Present?	Yes No O		-		Sampled A	Area
	Yes No		- 1	withii	n a Wetland	17 Yes No C
/etland Hydrology Present?	16 0 10 0					
Remarks:						
VEGETATION - Use sci	entific names of plan	nts.		inant cies?		
- And Allet sizes 20ft)	Absolute % Cover	Rel.	Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft		20		0.0%	FACU	Number of Dominant Species That are OBL, FACW, or FAC: 2(A)
Gleditsia triacanthos Populus deitoides		5	_	2.5%	FAC	mat a e obe, men, or me.
		10	-	5.0%	FAC	Total Number of Dominant Species Across All Strata: 4 (B)
4. Morus alba		5	-	2.5%		Species Across All Strata:
5.		0	-	0.0%		Percent of dominant Species
·		40		tai Cove	er	That Are OBL, FACW, or FAC: 50.0% (A/B
Saoling/Shrub Stratum (Plot size:	15ft)					Prevalence Index worksheet:
1. Lonicera maackii		15	V 8	3.3%	UPL	Total % Cover of: Multiply by:
2. Gleditsia triacanthos		3		6.7%	FACU	OBL species 0 x 1 = 0
3.		0		0.0%		FACW species 100 x 2 = 200
4		0		0.0%		FAC species 20 x 3 = 60
5.		0	U_	0.0%		FACU species 23 x 4 = 92
Herb Stratum (Plot size: 5ft)	18	= To	tal Cov	er	UPL species 15 x 5 = 75
1 Phalaris arundinacea		100	V 1	00.0%	FACW	Column Totals: 158 (A) 427 (B)
2.		0		0.0%		Prevalence Index = B/A = 2,703
3.		0		0.0%		Hydrophytic Vegetation Indicators:
4.		0		0.0%		1 - Rapid Test for Hydrologic Vegetation
5.		0		0.0%		2 - Dominance Test is > 50%
6.		0		0.0%		✓ 3 - Prevalence Index is ≤3.0 1
7		0		0.0%		4 - Morphological Adaptations 1 (Provide supporti
8		0		0.0%		data in Remarks or on a separate sheet)
9.		- 0		0.0%		Problematic Hydrophytic Vegetation 1 (Explain)
10.		0		0.0%		1 Indicators of hydric soil and wetland hydrology mu
Woody Vine Stratum (Plot size: 1	5ft)	100	-	tal Cov	er	be present, unless disturbed or problematic.
1		0	-	0.0%		Hudrophytic
2		0		0.0%		Hydrophytic Vegetation
		0	= To	tal Cov	er	Present? Yes No
Remarks: (Include photo number	ers here or on a separate s	sheet.)				
*Indicator su	ffix = National status or profe	essional decision	on assi	gned b	ecause Regio	enal status not defined by FWS. Midwest Region - Versi

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Depth _		cribe to the Matrix	e depth ne							
0-4 4-10 10-16		Matrix		eaea to uc				nfirm the	absence of indicators.)	
0-4 4-10 10-16	COIOT (11		%	Color (m		ox Featur	Type 1	Loc2	Texture	Remarks
4-10 10-16	10YR	3/2	100	Color (in	01311	,,,	1,100		Siity Clay	
10-16	10YR	3/2	90	7.5YR	3/4	10	C	PL	Silty Clay	
								PL	Silty Clay	
+mottle	10YR	5/2	83	7.5YR	3/4	10				
				10YR	5/1	2	D	М	Silty Clay	
Type: C=Conce	entration, D	Depletion, I	RM=Reduce	d Matrix, CS	=Covere	ed or Coate	d Sand Gr	ains.	² Location: PL=Pore Lining. N	
Hydric Soil In	dicators:			-	201				Indicators for Problem	atic Hydric Soils 3:
Histosol (A1						Matrix (S4)		Coast Prairie Redox (A	16)
Histic Epipe				_	Redox (Dark Surface (S7)	
Black Histic Hydrogen S				parties.	ed Matri				Iron Manganese Mass	es (F12)
Stratified La				position.		Mineral (F			Very Shallow Dark Sur	face (TF12)
2 cm Muck				_		Matrix (F2	!)		Other (Explain in Rem	arks)
Depleted Be		urface (A11))		ted Matr				•	990 mort # A
Thick Dark						ırface (F6)			•	3 100000 G
	k Mineral (S			-		Surface (I	-/)		Indicators of hydrophyl wetland hydrology n	
	y Peat or Pe			Redo:	c Depress	sions (F8)			unless disturbed or	
Restrictive Lay	yer (if obse	rved):							i	
Depth (inche Remarks:	es):								Hydric Soil Present?	Yes No
HYDROLOG	GY									
Wetland Hydr									5 t T . T T	fullalm in of two society
Primary Indicat	tors_fminimu	m of one is	required; ci							rs (minimum of two required
✓ Surface Wa	ater (A1)			* *		ed Leaves	(B9)		Surface Soil Cra	
High Water	r Table (A2)				atic Fau				✓ Drainage Patter	
Saturation	(A3)					c Plants (B			Dry Season Wa	
Water Mark	ks (B1)					ulfide Odo			Crayfish Burrow	
C	Deposits (82)		mercelle.			on Living	Roots (C3)		le on Aerial Imagery (C9)
				perce		Reduced I		7. 100		ssed Plants (D1)
Drift Depos	or Crust (B4))					in Tilled S	ons (C6)	✓ Geomorphic Po	
Drift Depos	rite (RE)					Surface (C7			FAC-Neutral Te	מ (ניס)
Drift Depos			o. /P7\	Ga	uge or W	'ell Data (D				
Drift Depos Algal Mat of Iron Depos Inundation	Visible on A			prompt			arks)			
Drift Depos Algal Mat of Iron Depos Inundation				prompt	ner (Expl	ain in Kem				
Drift Depos Algal Mat of Iron Depos Inundation	Visible on A regetated Co	ncave Surfa	ce (68)	□ ou	ner (Expl	ain in Kem		Т		
Drift Depos Algal Mat o Iron Depos Inundation Sparsely Vi	Visible on A regetated Co ations:		ce (68)	□ ou	er (Expl		12			
Drift Depos Algal Mat o Iron Depos Inundation Sparsely Vi Field Observa	r Visible on A regetated Co ations: Present?	ncave Surfa	œ (B8)	Ou	epth (inc	thes):	112	-		6
Drift Depos Algal Mat of Iron Depos Inundation Sparsely Vi Field Observa Surface Water I Water Table Pri	visible on A regetated Co ations: Present?	Yes Yes	0 No C	OU	epth (inc	thes):	12 16	Wet	tland Hydrology Present?	Yes ◉ No O
Drift Depos Algal Mat c Iron Depos Inundation Sparsely Vi Field Observa Surface Water I Water Table Pre Sincludes capili	n Visible on A legetated Co ations: Present? resent? sent? ary fringe)	Yes Yes	(B8) No C No C No O	OU C	Pepth (inc Pepth (inc Pepth (inc	ches):	16	-		Yes No
Drift Depos Algal Mat c Iron Depos Inundation Sparsely Vi Field Observa Surface Water I Water Table Pre Sincludes capili	n Visible on A legetated Co ations: Present? resent? sent? ary fringe)	Yes Yes	(B8) No C No C No O	OU C	Pepth (inc Pepth (inc Pepth (inc	ches):	16	-	tland Hydrology Present? ns), if available:	Yes ⑨ No ○
Drift Depos Algal Mat c Iron Depos Inundation Sparsely Vi Field Observa Surface Water I Water Table Pre Sincludes capili	n Visible on A legetated Co ations: Present? resent? sent? ary fringe)	Yes Yes	(B8) No C No C No O	OU C	Pepth (inc Pepth (inc Pepth (inc	ches):	16	-		Yes ® No ○
Drift Depos Algal Mat c Iron Depos Inundation Sparsely Vi Field Observa Surface Water I Water Table Pre Sincludes capili	n Visible on A legetated Co ations: Present? resent? sent? ary fringe)	Yes Yes	(B8) No C No C No O	OU C	Pepth (inc Pepth (inc Pepth (inc	ches):	16	-		Yes [®] No ○

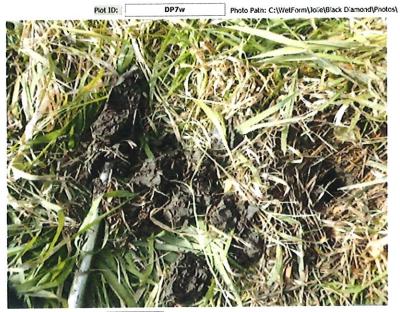


Photo File: DSCN8608.JPG Orientation: -facing

Lat/Long or UTM : Long/Easting: Lat/Northing:

Description:



Photo File: DSCN8616.JPG Orientation: -facing
Lat/Long or UTM: Long/Easting: Lat/Northing:

Description:

	Plot ID:	DP7w	Photo	Path: C:\WetForm\Jolle\Black D	amonoveno
			No	Photo	
Photo File: DSCN8617.JPG Orientatio	n: -fac	sing Photo File:	lone.bmp	Orientation:	-facing
Long/Easting:	Lat/Northing:	L	ong/Easting:	Lat/Northing:	
Description		Description:			

No Photo

No Photo

Photo File: None.b	mp	Orientation:		-facing	Photo File: None.bmp	Orientation:	-facing
Long/Ea	asting:		Lat/Northing:		Long/Easting:	Lat/Northing:	
Description:					Description:		8

Township, Range: Local relief (cong.: -89.459484 (If no, exp. Are 'Nor (If need point location locati	Datum: WGS 84 NWI classification: None plan in Remarks.) Instrumstances" present? Yes No of the content of Dominant Features, etc. Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A)B) Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A)B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Township, Range: Local relief (cong.: -89.459484 (If no, exp. Are 'Nor (If need point location locati	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: Datum: WGS 84 NO NO NO NO NO NO NO NO NO
Local relief (co	Datum: WGS 84 NWI classification: None plain in Remarks.) rmal Circumstances" present? Yes No of Sed, explain any answers in Remarks.) ns, transects, important features, etc. Tea 17 Yes No of Sed. Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
inant cies? Indicator status Indicator s	Datum: WGS 84 NWI classification: None plain in Remarks.) real Circumstances* present? Yes No
(If no, exp? Are 'Nor (If need point location lo	NWI classification: None plain in Remarks.) rmal Circumstances* present? Yes No
inant cies? Indicator Status 1.3% FACU 6.9% FACU	plain in Remarks.) rmal Circumstances" present? Yes No olded, explain any answers in Remarks.) ns, transects, important features, etc. rea Percent of Dominant Species That are OBL, FACW, or FAC: O (A) Percent of dominant Species That Are OBL, FACW, or FAC: O (A) Percent of dominant Species That Are OBL, FACW, or FAC: Multiply Description (A) Prevalence Index worksheet: Total % Cover of: Multiply by:
inant cies? Indicator Status 1.3% FACU 6.9% FACU	rmal Circumstances" present? ded, explain any answers in Remarks.) ns, transects, important features, etc. rea ? Yes No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: O (A) Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: O (A) Prevalence Index worksheet: Total % Cover of: Multiply by:
inant cies? Strat. Indicator Status 1.3% FACU	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Oecret of dominant Species That Are OBL,
inant cies? Strat. 1.3% FACU 5.6% FACU 6.9% FACU	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: O (A) Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: O (A) Prevalence Index worksheet: Total % Cover of: Multiply by:
inant cles? Strat. Indicator Status 1.3% FACU 6.9% FACU 6.9% FACU 6.9% FACU 3.8% UPL 5.3% FACU	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: O (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: O.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
inant cles? Strat. 1.3% FACU 6.9% FACU 6.9% FAC 0.0% FAC 0.0% FAC 3.8% UPL 5.3% FACU	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Dominant Species That Are OBL, FACW, or FAC: No% O(A) Prevalence Index worksheet: Total % Cover of: Multiply by:
inant cles? Strat. 1.3% FACU 6.9% FACU 6.9% FAC 0.0% FAC 0.0% FAC 3.8% UPL 5.3% FACU	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Dominant Species That Are OBL, FACW, or FAC: No% O(A) Prevalence Index worksheet: Total % Cover of: Multiply by:
inant cies? Strat. Indicator Status 1.3% FACU 5.6% FACU 6.9% FACU .3% FAC .0% FAC .0% FAC .0% FAC .0% FAC FAC .0% FAC .0% FAC .0% FAC .0% FAC	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Indicator Status 1.3%	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: O.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Indicator Status 1.3%	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: O.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Indicator Status 1.3%	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: O.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Indicator Status 1.3%	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: O.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Strat. Indicator Status 1.3% FACU 6.9% FACU 0.0% al Cover 3.8% UPL 5.3% FACU	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: O.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Status S	That are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
5.6% FACU 6.9% FACU 0.0% FAC 3.8% UPL 3.3% FACU	That are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
6.9% FACU 5.3% FAC 5.0% al Cover 3.8% UPL 5.3% FACU	Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
5.3% FAC 0.0% al Cover 3.8% UPL 5.3% FACU	Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
0.0% al Cover 3.8% UPL 5.3% FACU	That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
3.8% UPL 5.3% FACU	That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
3.8% UPL 5.3% FACU	Total % Cover of: Multiply by:
5.3% FACU	
	ORL sensins 0 v1= 0
	OBL species 0 x 1 = 0
0.0%	FACW species $0 \times 2 = 0$
0.0%	FAC species 2 x 3 = 6
0.0%	FACU species 112 x 4 = 448
ai Cover	UPL species 30 x 5 = 150
8.8% FACU	Column Totals: 144 (A) 604 (B)
2.5% FACU	Prevalence Index = B/A =4.194_
	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrologic Vegetation
	2 - Dominance Test is > 50%
0.0%	3 - Prevalence Index is ≤3.0 1
0.0%	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
0.0%	Problematic Hydrophytic Vegetation 1 (Explain)
0.0%	Indicators of hydric soil and wetland hydrology must
tal Cover	be present, unless disturbed or problematic.
0.0%	
0.0%	Hydrophytic Vegetation
tal Cover	Present? Yes No •
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 Cover 1.8% FACU 1.5% FACU 1.3% FACU 1.3% FACU 1.0% FACU 1.0%

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IL											
ofile Descri	ption: (Desc	ribe to the	depth nee	ded to doc	ument (the indi	cator or co	onfirm the	absence of indicators.)		
Depth		fatrix		Redox Features							
(inches)	Color (m		%	Color (moi	ist)	%	Type 1	Loc2		marks	
0-5	10YR	3/2	100						Silty Clay Loam		
5-16	10YR	3/2	97	7.5YR	3/4	3	C	PL	Silty Clay Loam		
Type: C=Conc	entration, D=	Depletion, R	M=Reduce	l Matrix, CS=	-Covered	or Coat	ed Sand Gr	ains.	² Location: PL=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators:			_					Indicators for Problematic Hydric S	Soils ³ :	
Histosol (A	A1)			Sandy	Gleyed N	latrix (S	1)		Coast Prairie Redox (A16)		
	edon (A2)			Sandy	Redox (S	55)			Dark Surface (S7)		
Black Histi				Strippe	d Matrix	(56)			Iron Manganese Masses (F12)		
	Suifide (A4)					dineral (F			Very Shallow Dark Surface (TF12)		
	Layers (A5)			Loamy	Gleyed I	Matrix (F.	2)		Other (Explain in Remarks)		
2 cm Muci		ufaco (A11)			ed Matri						
_	Below Dark Su					rface (F6			2		
	k Surface (A12					Surface (³ Indicators of hydrophytic vegetation wetland hydrology must be present	and	
_	ck Mineral (S1			Redox	Depress	ions (F8)	E		unless disturbed or problematic.	ш,	
	ky Peat or Pea										
	ayer (if obse	rved):									
Type: Depth (incl Remarks:		rved):							Hydric Soil Present? Yes O	No 💿	
Type: Depth (incl		rved):							Hydric Soil Present? Yes O	No 🍥	
Type: Depth (incl		rved):							Hydric Soil Present? Yes O	√o ⊙	
Type: Depth (incl	hes):	rved):							Hydric Soil Present? Yes O	No (9)	
Type:	DGY	cators:									
Type:	DGY	cators:	equired; th	eck all that a	aooly)_				Secondary Indicators (minimum		
Type:	DGY	cators:	equired; ch	Wate	er-Staine	nd Leaves	5 (B9)		Secondary Indicators (minimum: Surface Soil Cracks (B6)		
Type:	DGY Irology Indicators (minimu	cators:	equired; ch	Wate	er-Staine atic Faun	a (B13)			Secondary Indicators (minimum: Surface So I Cracks (B6) Drainage Patterns (B10)	of two reauted	
Type:	DGY Irology Indicators (minimu	cators:	equired; ch	Wate	er-Staine atic Faun Aquatic	ia (B13) Plants (I	B14)		Secondary Indicators (minimum: Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2)	of two required	
Type:	DGY Irology Indicators (minimu Vater (A1) or Table (A2)	cators:	equired; ch	Wate Aqua True Hydr	er-Staine atic Faun Aquatic rogen Su	ia (B13) Plants (I lifide Ode	B14)		Secondary Indicators (minimum: Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8)	of two required	
Type:	DGY Irology Indicators (minimu Vater (A1) or Table (A2)	:ators: m of one is	equired; ch	Wate Aqua True Hydr	er-Staine atic Faun Aquatic rogen Su lized Rhi	ia (B13) Plants (I offide Odr zosphere	B14) or (C1) os on Living	Roots (C3	Secondary Indicators (minimum: Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial II	of two_reauted) magery (C9)	
Type:	DGY Irology Indicators (minimu Vater (A1) er Table (A2) in (A3) erks (B1) Deposits (B2)	:ators: m of one is	equired; ch	Wate Aqua True Hydr	er-Staine atic Faun Aquatic rogen Su lized Rhi: ence of I	aa (B13) Plants (I Ifide Odo zosphere Reduced	B14) or (C1) s on Living Iron (C4)		Secondary Indicators (minimum Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial II	of two_reauted) magery (C9)	
Type:	DGY Irology Indicators (minimu Vater (A1) er Table (A2) in (A3) erks (B1) Deposits (B2)	:ators: m of one is	equired; ch	Wate Aqua True Hydr Oxid	er-Staine atic Faun Aquatic rogen Su lized Rhiz ence of I	aa (B13) Plants (I Ifide Odo zosphere Reduced Reductio	B14) or (C1) s on Living Iron (C4) n in Tilled S		Secondary Indicators (minimum Surface Sol Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial II Stunted or Stressed Plants (II Geomorphic Position (D2)	of two_reauted) magery (C9)	
Type:	DGY Irology Indicators (minimu Vater Table (A2) on (A3) orks (B1) Deposits (B2) osits (B3) or Crust (B4)	:ators: m of one is	equired; ch	Wate Aqua True Hydr Oxid	ar-Staine atic Faun Aquatic rogen Su lized Rhiz ence of l ent Iron Muck Si	a (B13) Plants (I Ifide Ode zosphere Reduced Reductio urface (C	B14) or (C1) is on Living Iron (C4) in in Tilled S		Secondary Indicators (minimum Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial II	of two_reauted) magery (C9)	
Type:	Pogy Irology Indicators (minimu Vater (A1) er Table (A2) in (A3) in (A3) or Crust (B4) osits (B5) on Visible on A	cators: m of one is	y (87)	Wate Aqua True Hydr Oxid Pres Rece Thin	er-Staine atic Faunt Aquatic rogen Su lized Rhit ence of I ent Iron i Muck Si ge or We	ia (B13) Plants (I difide Odo zosphere Reduced Reductio urface (C eli Data (B14) or (C1) is on Living Iron (C4) in in Tilled S (7) D9)		Secondary Indicators (minimum Surface Sol Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial II Stunted or Stressed Plants (II Geomorphic Position (D2)	of two_reauted) magery (C9)	
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Type:	Pogy Irology Indicators (minimu Vater (A1) er Table (A2) in (A3) er (A3) in (A3) or (cators: m of one is)) Merial Imager Incave Surface	y (67) te (68)	Wate Aqua True Hydr Oxid Pres Recc Thin Gaug	er-Staine atic Faunt Aquatic rogen Su lized Rhit ence of I ent Iron i Muck Si ge or We	la (B13) Plants (I Ifide Ode Zosphere Reduced Reductio urface (C Eli Data (I In Ren	B14) or (C1) is on Living Iron (C4) in in Tilled S (7) D9)		Secondary Indicators (minimum Surface Sol Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial II Stunted or Stressed Plants (II Geomorphic Position (D2)	of two_reauted) magery (C9)	
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Photo File: DSCN8632.JPG Orientation: -facing
LavLong or UTM: Long/Easting: LavNorthing:

Description:



Photo File: DSCN8633.JPG Orientation: -facing

Lat/Long or UTM: Long/Easting: Lat/Northing:

Description:

oject/Site: Black Diamond		Gt	y/County:	Christian	Sampling Date: 07-Nov-19
plicant/Owner: Swift Current					Illinois Sampling Point: DP8w
73 01 04 07 00 0000			Section, Town		****
vestigator(s): ES, JW					concave, convex, none): flat
ndform (hillslope, terrace, etc.): Flat					Datum: WGS 84
ope: 0,0% / 0,0 ° Lat.:	39.611793		Long.: -	89.454104	Datum: WG5 61
oil Map Unit Name: Ipava silt loan	o, 0 to 2 percent slopes				NWI dassification: PEM1C
e climatic/hydrologic conditions on th	e site typical for this time of	ear? Yes	● No ○	(If no, ex	oplain in Remarks.)
e Vegetation , Soil .	, or Hydrology si	gnificantly dis	lurbed?	Are "No	ormal Circumstances" present? Yes No
e Vegetation, Soil	, or Hydrology n	aturally proble	ematic?	(If nee	ded, explain any answers in Remarks.)
	Attach site man show	vina samı	olina poin	t location	ns, transects, important features, etc.
tydrophytic Vegetation Present?	Yes No		1		•
	Yes No			Sampled A	Area
tydric Soil Present?	Yes No		within	n a Wetland	1? Yes • No C
Netiand Hydrology Present?	165 0 NO 0				
Remarks:					
VEGETATION - Use sci	entific names of plan	its.	Dominant Species?		
	94	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft)	% Cover		Status	Number of Dominant Species
Acer saccharinum		. 35	100.0%	FACW	That are OBL, FACW, or FAC: 4 (A)
			0.0%		Total Number of Dominant
		•	0.0%		Species Across All Strata: 6 (B)
		0	0.0%		Percent of dominant Species
5		35	= Total Covi	or	That Are OBL, FACW, or FAC: 66.7% (A/B)
Saoling/Shrub Stratum (Plot size: 1	5ft)		- 10001 COV	•!	Prevalence Index worksheet:
		10	✓ 100.0%	LIPI	Total % Cover of: Multiply by:
Lonicera maackii 2.		0	0.0%		OBL species 15 x 1 = 15
3.		0	0.0%		FACW species 77 x 2 = 154
4.		0	0.0%		FAC species 0 x 3 = 0
5.		0	0.0%		FACU species 22 x 4 = 88
		10	= Total Cov	er	UPL species 15 x 5 = 75
Herb Stratum (Plot size: 5ft)	5	6.0%	UPL	Column Totals: 129 (A) 332 (B)
1, Setaria viridis		7	8.3%	FACU	The second secon
2. Trifolium pratense		20	₹ 23.8%	FACW	Prevalence Index = B/A = 2.574
3. Echinochioa crus-galii		20	₹ 23.8%	FACW	Hydrophytic Vegetation Indicators:
Carex vulpinoidea Acer saccharinum		2	2.4%	FACW	1 - Rapid Test for Hydrologic Vegetation
6. Schedonorus arundinaceus		15	₹ 17.9%	FACU	✓ 2 - Dominance Test is > 50%
7. Scirpus atrovirens		15	V 17.9%	OBL	✓ 3 - Prevalence Index is ≤3.0 1
8.		0	0.0%		 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9.		0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
10.		0	0.0%		TO THE TAIL OF THE WORLD STORE THE WORLD AND THE STORE AND THE STORE THE STORE AND THE
	oft)	84	= Total Cov	er	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
ment are control (District. 10		0	0.0%		
Woody Vine Stratum (Plot size: 15		-	0.0%		Hydrophytic
1		n	0.0.0		Vegetation
		0	= Total Cov		Present? Yes No

ome ocsempt	ion: (Describe							
Depth	Matri			Redox Feat			Touturo	Remarks
(inches)	Color (moist)		Color (mois		Type 1	Loc1	Texture	Kelliaiks
0-16	10YR 3/1	85	7.5YR 3	10	С	PL	Silty Clay Loam	
+mottle			10YR 5	5/1 5	D	М	Silly Clay Loam	
	Makas D-Doub	tion PM-Pod	uced Matrix, CS=0	Covered or Coal	ted Sand Gr	ains.	4-coation: PL=Pore Lining. N	1=Matrix.
Type: C≅Concent Hydric Soil Ind		con, Kri-Ked	oced Matrix, Co-C	2012 64 67 600	200 55/10 6/		Indicators for Problem	
Histosol (A1)			Sandy G	leyed Matrix (S	4)			
Histic Epiped				edox (SS)	1		Coast Prairie Redox (A	10)
Black Histic (Matrix (S6)			Dark Surface (S7)	
Hydrogen Su	700 5 125000		-	Matrix (50) lucky Mineral (1	F1)		Iron Manganese Mass	
Stratified Lay							Very Shallow Dark Sur	face (TF12)
2 cm Muck (ileyed Matrix (F	2)		Other (Explain in Rem	arks)
Depleted Be		(A11)	-	Matrix (F3)			197 X	
Thick Dark S		(111)		ark Surface (F6			2	
-			4	I Dark Surface			Indicators of hydrophy wetland hydrology r	tic vegetation and
Sandy Muck	Peat or Peat (53)	1	Redox D	epressions (F8))		wetland hydrology r unless disturbed or	
Restrictive Lay								
Type:	er (II observed	,.						0 0
Depth (inche: Remarks:	s):						Hydric Soil Present?	Yes No
Remarks:							Hydric Soil Present?	Yes ♥ No ∪
Remarks:	SΥ	5:						
Remarks:	SY ology Indicator		1; check all that ac	vo(v)				Yes No No
Remarks:	SY ology Indicator			oly) -Stained Leave	s (B9)			rs.(minimum of two required
Remarks: HYDROLOG Wetland Hydro Primacy Indicato ✓ Surface Wat	GY plogy Indicator rs (minimum of ter (A1)		Water		s (B9)		Secondary Indicato	rs.(min'mum of two required acks (86)
Remarks: HYDROLOG Wetland Hydro Frimacy Indicato Surface Wat High Water	ology Indicator ors fminimum of ter (A1) Table (A2)		Water Aquat	-Stained Leave			Secondary Indicate Surface Soil Cr	es (minimum of two required acks (86) ans (810)
Remarks: HYDROLOG Wetland Hydro Surface Wat High Water Saturation (GY ology Indicator ors finialmum of ter (A1) Table (A2) A3)		Water Aquat True	-Stained Leave ic Fauna (B13)	B14)		Secondary Indicate Surface Soil Cr. Drainage Patte	es (minimum of two required acks (B6) ans (B10) ter Table (C2)
Remarks: HYDROLOG Wetland Hydro Frimary Indicate Surface Wat High Water Saturation (Water Marks	ology Indicator ors fininimum of ter (A1) Table (A2) A3) s (B1)		Water Aquat True / Hydro	-Stained Leave ic Fauna (B13) Aquatic Plants (B14) or (C1)	Roots (C3)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wa	es (minimum of two required acks (B6) ans (B10) ter Table (C2)
Remarks: HYDROLOG Wetland Hydro Primary Indicate V Surface Wat High Water Saturation (Water Mark:	ology Indicator ors fininimum of ter (A1) Table (A2) A3) s (B1) eposits (B2)		Water Aquat True / Hydro	-Stained Leave ic Fauna (B13) Aquatic Plants (gen Su'fide Od	B14) or (C1) es on Living	Roots (C3)	Secondary Indicate Surface Sol Cri Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit	rs.(minimum of two required acks (86) rns (810) ter Table (C2) vs (C8)
HYDROLOG Wetland Hydro Primary Indicate Saturation (Water Mark Sediment D. Drift Deposi	SY Ilogy Indicator Instrument of Iter (A1) Table (A2) A3) Is (B1) Iter (B2) Iter (B3)		Water Aquat True / Hydro Oxidiz Prese	-Stained Leave ic Fauna (B13) Aquatic Plants (gen Suifide Od red Rhizosphere	B14) or (C1) es on Living Tron (C4)		Secondary Indicate Surface Sol Cri Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit	rs (minimum of two required acks (B6) rns (B10) ter Table (C2) rs (C8) ble on Aerial Imagery (C9) essed Plants (D1)
HYDROLOG Wetland Hydro Primary Indicato ✓ Surface Wat High Water Saturation (Water Mark: Sediment D. Drift Depos	ology Indicator rs fminimum of ter (A1) Table (A2) A3) A3) A5 (B1) epos.fs (B2) ts (B3) r Crust (B4)		Water Aquat True / Hydro Oxidiz Prese	-Stained Leave ic Fauna (B13) Aquatic Plants (gen Sulfide Od led Rhizosphere nce of Reduced at Iron Reductio	B14) or (C1) es on Living Tron (C4) en in Tilled S		Secondary Indicate Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit	rs (minimum of two required acks (B6) rns (B10) ter Table (C2) rs (C8) ble on Aerial Imagery (C9) essed Plants (D1) sition (D2)
Remarks: HYDROLOG Wetland Hydro Primary Indicato ✓ Surface Wat High Water Saturation (Water Mark: Sediment D Drift Depos Algal Mat or Iron Deposi	SY llogy Indicator rs /minimum of ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5)	one is required	Water Aquat True / Hydro Oxidiz Prese	-Stained Leave- ic Fauna (B13) Aquatic Plants (gen Suifide Od red Rhizosphere nce of Reduced at Iron Reductio Muck Surface (C	B14) or (C1) es on Living (Tron (C4) on in Tilled S		Secondary Indicate Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre Ceomorphic Po	rs (minimum of two required acks (B6) rns (B10) ter Table (C2) rs (C8) ble on Aerial Imagery (C9) essed Plants (D1) sition (D2)
HYDROLOG Wetland Hydro ✓ Surface Wat ☐ High Water ☐ Saturation (☐ Water Mark Sediment D ☐ Drift Deposi Aigal Mat or ☐ Iron Deposi ☐ Inundation	ology Indicator ors fininimum of ter (A1) Table (A2) (A3) is (B1) eposits (B2) its (B3) if Crust (B4) its (B5) Visible on Aerial	one is required	Water Aquat True / Hydro Oxidiz Prese Recen Thin I	-Stained Leave- ic Fauna (B13) Aquatic Plants (gen Suffide Od led Rhizosphere nce of Reduced it Iron Reductio duck Surface ((e or Well Data (B14) or (C1) es on Living Tron (C4) in in Tilled S (C7)		Secondary Indicate Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre Ceomorphic Po	rs (minimum of two required acks (B6) rns (B10) ter Table (C2) rs (C8) ble on Aerial Imagery (C9) essed Plants (D1) sition (D2)
HYDROLOG Wetland Hydro Frimary Indicato Surface Wat High Water Saturation (Water Mark Sediment D Drift Deposi Aigal Mat or Iron Deposi Inundation	SY llogy Indicator rs /minimum of ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5)	one is required	Water Aquat True / Hydro Oxidiz Prese Recen Thin I	-Stained Leave- ic Fauna (B13) Aquatic Plants (gen Suifide Od red Rhizosphere nce of Reduced at Iron Reductio Muck Surface (C	B14) or (C1) es on Living Tron (C4) in in Tilled S (C7)		Secondary Indicate Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre Ceomorphic Po	rs (minimum of two required acks (B6) rns (B10) ter Table (C2) rs (C8) ble on Aerial Imagery (C9) essed Plants (D1) sition (D2)
HYDROLOG Wetland Hydro ✓ Surface Wat ☐ High Water ☐ Saturation (☐ Water Mark Sediment D ☐ Drift Deposi Aigal Mat or ☐ Iron Deposi ☐ Inundation	ology Indicator rs /minimum of ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) Visible on Aerial getated Concave	one is required Imagery (B7) Surface (B8)	Water Aquat True / Hydro Oxidiz Presse Recen Thin I Gauge	-Stained Leave ic Fauna (B13) Aquatic Plants (gen Suffde Od and Rhizosphere nice of Reduced it Iron Reductio Muck Surface (e or Well Data ((Explain in Rer	B14) or (C1) es on Living i Iron (C4) en in Tilled S C7) (D9) marks)		Secondary Indicate Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre Ceomorphic Po	rs (minimum of two required acks (B6) rns (B10) ter Table (C2) rs (C8) ble on Aerial Imagery (C9) essed Plants (D1) sition (D2)
HYDROLOG Wetland Hydro Primary Indicato ✓ Surface Wat ☐ High Water ☐ Saturation (☐ Water Mark: Sediment D. Drift Depos: Algal Mat or ☐ Iron Depos ☐ Inundation ☐ Sparsely Ve	ology Indicator ors (minimum of ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) Visible on Aerial igetated Concave	one is required	Water Aquat True / Hydro Oxidiz Presse Recen Thin I Gauge	-Stained Leave- ic Fauna (B13) Aquatic Plants (gen Suffide Od led Rhizosphere nce of Reduced it Iron Reductio duck Surface ((e or Well Data (B14) or (C1) es on Living i Iron (C4) en in Tilled S C7) (D9) marks)		Secondary Indicate Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre Ceomorphic Po	rs (minimum of two required acks (B6) rns (B10) ter Table (C2) rs (C8) ble on Aerial Imagery (C9) essed Plants (D1) sition (D2)
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HYDROLOG Wetland Hydro Primary Indicato ✓ Surface Wat ☐ High Water ☐ Saturation (☐ Water Mark: Sediment D. ☐ Drift Deposi ☐ Algal Mat or ☐ Iron Deposi ☐ Inundation ☐ Sparsely Ve Field Observat Surface Water P	ology Indicator ors fininimum of ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) Visible on Aerial getated Concave trions: tresent?	Imagery (B7) Surface (B8) Yes No	Water Aquat Aquat True / Hydro Oxidiz Press Recen Thin I Gauge Other	-Stained Leave ic Fauna (B13) Aquatic Plants (gen Suffide Od ied Rhizosphere nice of Reduced it Iron Reduction Huck Surface (G e or Well Data ((Explain in Rer th (inches): th (inches):	B14) or (C1) es on Living i Iron (C4) en in Tilled S C7) (D9) marks)	oils (C6)	Secondary Indicate Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre Ceomorphic Po	rs (minimum of two required acks (B6) rns (B10) ter Table (C2) rs (C8) ble on Aerial Imagery (C9) essed Plants (D1) sition (D2)
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Photo File: DSCN8670.JPG Orientation: -facing

Lat/Northing: Lat/Northing:



Photo File DSCN8665.JPG Orientation: -facing

Lat/Long or UTM: Long/Easting: Lat/Northing:

Description:

roject/Site: Black Diamond	City/C	ounty: Christian	Sampling Date: 07-Nov-19
oplicant/Owner: Swift Current		State:	Illinois Sampling Point: DP8u
vestigator(s): ES, JW	Sec	ion, Township, Range:	s 32 T 14N R 3W
andform (hillstope, terrace, etc.): Flat		Local relief (co	oncave, convex, none): flat
ope: 0.0% / 0.0 ° Lat.: 39.611694		Long.: -89.454065	Datum: WGS 84
oil Map Unit Name: Ipava silt loam, 0 to 2 percent si	iones		NWI classification: None
e climatic/hydrologic conditions on the site typical for this	time of year? Yes	No (If no, exp	plain in Remarks.)
re Vegetation , Soil , or Hydrology	significantly distur	bed? Are 'No	rmal Circumstances" present? Yes No
re Vegetation , Soil , or Hydrology	naturally problems	ntic? (If need	led, explain any answers in Remarks.)
UMMARY OF FINDINGS - Attach site ma	n showing sampli	na point location	ns, transects, important features, etc.
		1	
njaroprijat regenater reservi	-	Is the Sampled A	rea
Y O No.	_	within a Wetland	? Yes ○ No •
rectand rijurology rresent			
Remarks:			
	0 2	- N. 1 (2)	
VEGETATION - Use scientific names of		ominant Species?	
(2)-1-1	Absolute F % Cover	el.Strat. Indicator Cover Status	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft)		100.0% FACW	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
Acer saccharinum 2.	0	0.0%	That are obe, fixer, or fixer
3.		0.0%	Total Number of Dominant Species Across All Strata: 4 (8)
4.	0	0.0%	Species views and second
5.	0 [0.0%	Percent of dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)
	35 ==	Total Cover	That Are Obc, FACW, OF FAC.
Sapling/Shrub Stratum (Plot size: 15ft)	-		Prevalence Index worksheet:
1.Lonicera maackii		100.0% UPL	Total % Cover of: Multiply by:
2		0.0%	OBL species 0 x 1 = 0 FACW species 43 x 2 = 86
3.	0 _	0.0%	FACW species 43 x 2 = 86 FAC species 0 x 3 = 0
4. 5.	0	0.0%	FACU species 90 x 4 = 360
		Total Cover	UPL species 35 x 5 = 175
Herb Stratum (Plot size: 5ft)		. 20.00	Column Totals: 168 (A) 621 (B)
1, Schedonorus arundinaceus	40 🔻	4.9% FACW	
2. Echinochioa crus-galii		4.9% FACW 14.6% FACU	Prevalence Index = B/A = 3.696
Trifolium pratense Setaria viridis	5 5	4.9% UPL	Hydrophytic Vegetation Indicators:
5. Eleusine indica	35	3	1 - Rapid Test for Hydrologic Vegetation
6. Agrostis gigantea	3	2.9% FACW	2 - Dominance Test is > 50%
7.	0	0.0%	3 - Prevalence Index is ≤3.0
8	0 _	0.0%	4 - Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
9	0	0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
10	0	0.0%	1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 15ft)	103 =	Total Cover	be present, unless disturbed or problematic.
1	0	0.0%	the described to
2	0	0.0%	Hydrophytic Vegetation Present? Yes No No
	0 =	Total Cover	Present? Yes No 9
Remarks: (Include photo numbers here or on a se	eparate sheet.)		
İ			

ofile Descr						12 10 10		- 1-		
	iption: (Des	cribe to th	e depth ne	eded to				onfirm the	e absence of indicators.)	
Depth		Matrix				ox Featu		1003	Texture	Remarks
(inches)	Color (n		%	Color	(moist)	%	Type 1	Loc2	lexture	Kemarks
0-4	10YR	3/1	100							
4-16	10YR	3/1	92	7.5YR	3/4	5	С	PL		
+mottle	10YR	5/8	3							
									The second state of the second second second second second	
Type: C=Con-	centration, D=	Depletion,	RM=Reduc	ed Matrix	, CS≃Covere	d or Coal	ted Sand G	ains.	² Location: PL=Pore Lining. M=N	latrix.
Hydric Soil I	Indicators:								Indicators for Problemati	c Hydric Soils ³ :
Histosol (A1)			☐ Sa	ndy Gleyed	Matrix (S	4)		Coast Prairie Redox (A16)	
Histic Epi	pedon (A2)			☐ Sa	indy Redox (SS)			Dark Surface (S7)	
Black Hist	tic (A3)			☐ St	ripped Matri	x (56)			Iron Manganese Masses (F12)
Hydrogen	Suifide (A4)			-	amy Mucky		F1)			
Stratified	Layers (A5)			-	amy Gleyed				Very Shallow Dark Surfac	
2 cm Muc	ck (A10)				epleted Matr				Other (Explain in Remark	s)
	Below Dark S	urface (A11)		edox Dark Su		5)			
-	rk Surface (A1		38	_					3 Indicators of hydrophytic v	constation and
	uck Mineral (S			-	epleted Dark				Indicators of hydrophytic v wetland hydrology mus	regetation and t be present.
	cky Peat or Pe			L R	edox Depres	sions (F8	,		unless disturbed or pr	
	ayer (if obse									
	ayer (ii obs.	vca,.							1	
Type:						-			Hydric Soil Present? Ye	s 🏵 No 🔾
Depth (inc	ures).									
IYDROLO	OGY									
	ROSCITANTI	cators:								
Wetland Hy	drology Indi		required;	theck all	that apply)				Secondary Indicators (min'mum of two required.
Wetland Hye Primary Indic	drology Indi		required; o			ed Leave	s (89)		Secondary Indicators (
Primary Indic	drology Indicators (minimu Water (A1)	um of one is	required: o		Water-Stain					s (B6)
Wetland Hyd Primary Indic Surface V	drology Indicators (minimu Water (A1) ter Table (A2)	um of one is	: required; (Water-Stain Aquatic Fau	na (B13)			Surface Soil Crack	(B6) (B10)
Wetland Hyd Primary Indic Surface V High Wat	drology Indicators (minimum Water (A1) ter Table (A2) on (A3)	um of one is	required; s		Water-Stain Aquatic Fau True Aquati	na (B13) c Plants (B14)		Surface Soil Cracke Drainage Patterns Ory Season Water	s (B6) (B10) Table (C2)
Primary Indic Primary Indic Surface V High Wal Saturatio	drology Indicators (minimum Water (A1) ter Table (A2) on (A3) Jarks (B1)	um of one is	required; (Water-Stain Aquatic Fau True Aquati Hydrogen S	na (B13) c Plants (u'fide Od	(B14) or (C1)	Roots (C3	Surface Soil Cracke Drainage Patterns Dry Season Water Crayfish Burrows (6 (86) (810) Table (C2) C8)
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Wetland Hyd Primary Indic Surface V High Wat Saturatio Water M Sedimen Drift Dep A'gal Mai Iron Dep Inundati Sparsely Field Obsert Surface Water Table Water Table Caturation Pr (includes cap Describe Re	drology Indicators /minimu Water (A1) ter Table (A2) on (A3) oarks (B1) of Deposits (B2) oasits (B3) of ter Crust (B4) oosits (B5) ion Visible on a vegetated Co vations: er Present? Present? Present?	yes Yes	ery (87) ace (88) No (9) No (9) No (9)		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rin Presence of Presence of Thin Muck S Gauge or W Other (Expl Depth (inc Depth (inc	na (B13) c Plants (urifide Od izosphere Reduced Reductio Surface ((/eli Data rain in Red ches):	B14) or (C1) es on Living H ron (C4) on in Tilled 9 C7) (D9) marks)	Soils (C6)	Surface Soil Cracks Drainage Patterns Dry Season Water Crayfish Burrows () Saturation Visible Stunted or Stresse Geomorphic Positi	s (86) (810) Table (C2) C8) on Aerial Imagery (C9) d Plants (D1) on (D2) D5)
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Wetland Hyd Primacy Indic Surface V High Wat Saturatio Water M Sedimen Drift Dep A'gal Mai Iron Dep Inundati Sparsely Field Obsert Surface Water Table Saturation Pr (includes cap Describe Re	drology Indicators /minimu Water (A1) ter Table (A2) on (A3) oarks (B1) of Deposits (B2) oasits (B3) of ter Crust (B4) oosits (B5) ion Visible on a vegetated Co vations: er Present? Present? Present?	yes Yes	ery (87) ace (88) No (9) No (9) No (9)		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rin Presence of Presence of Thin Muck S Gauge or W Other (Expl Depth (inc Depth (inc	na (B13) c Plants (urifide Od izosphere Reduced Reductio Surface ((/eli Data rain in Red ches):	B14) or (C1) es on Living H ron (C4) on in Tilled 9 C7) (D9) marks)	Soils (C6)	Surface Soil Cracks Drainage Patterns Dry Season Water Crayfish Burrows () Saturation Visible Stunted or Stresse Geomorphic Positi	s (86) (810) Table (C2) C8) on Aerial Imagery (C9) d Plants (D1) on (D2) D5)
Primary Indic Primary Indic Surface V High Wat Saturatio Water M Sedimen Drift Dep A'gal Mai Iron Dep Inundati Sparsely Field Obsert Surface Water Table Saturation Pr (includes cap Describe Re	drology Indicators /minimu Water (A1) ter Table (A2) on (A3) oarks (B1) of Deposits (B2) oasits (B3) of ter Crust (B4) oosits (B5) ion Visible on a vegetated Co vations: er Present? Present? Present?	yes Yes	ery (87) ace (88) No (9) No (9) No (9)		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rin Presence of Presence of Thin Muck S Gauge or W Other (Expl Depth (inc Depth (inc	na (B13) c Plants (urifide Od izosphere Reduced Reductio Surface ((/eli Data rain in Red ches):	B14) or (C1) es on Living H ron (C4) on in Tilled 9 C7) (D9) marks)	Soils (C6)	Surface Soil Cracks Drainage Patterns Dry Season Water Crayfish Burrows () Saturation Visible Stunted or Stresse Geomorphic Positi	s (86) (810) Table (C2) C8) on Aerial Imagery (C9) d Plants (D1) on (D2) D5)



Photo File: DSCN8679.JPG Orientation:

Lat/Long or UTM: Long/Easting:

Lat/Northing:

Description:

-facing Photo File DSCN8680.JPG Orientation:

Lat/Long or UTM: Long/Easting:

Lat/Northing:

Description:

roject/Site: Black Diamond		Cit	y/County: (hristian	Sampling Date: 07-Nov-19
oplicant/Owner: Swift Current				State:	Illinois Sampling Point: DP9w
westigator(s): ES, JW		9	Section, Towns	hip, Range:	s 7 T 13N R 3W
andform (hillslope, terrace, etc.): Flat			t	ocal relief (c	oncave, convex, none): flat
ope: 0.0% / 0.0 ° Lat.: 39.	500724		Long.: -8	9.463568	Datum: WGS 84
		clonec		3.103300	NWI classification: PEM1Af
il Map Unit Name: <u>Virden silty clay loa</u> re climatic/hydrologic conditions on the site	theisel (as this time	of warr? Yes	● No ○	(If no, ex	plain in Remarks.)
177		significantly dis		-	ormal Circumstances" present? Yes No
		naturally proble			
	r Hydrology			*	ded, explain any answers in Remarks.)
		nowing sam	oling poin	location	ns, transects, important features, etc.
ijaropiijae regenerari	es No		Is the	Sampled A	Area
74	es No			a Wetland	
Wetland Hydrology Present? Y	es No C				
Remarks: recently harvested soybean field	<i>"</i>	In a to			
VEGETATION - Use scienti	fic names of p		Dominant _ Species? .	V = 41 = 4 = -	I D
Tree Stratum (Plot size: 30ft)	Absolute % Cover	Rel.Strat. Cover	Status	
1.	'	0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC:2(A)
2.		0	0.0%		
3.		.0	0.0%		Total Number of Dominant Species Across All Strata:3 (B)
4.		0	0.0%		Construction of American
5		0	0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
(2) 150)	0	= Total Cove	r	The state of the s
Sapling/Shrub Stratum (Plot size: 15ft		0	0.0%		Prevalence Index worksheet: Total % Cover of:Multiply by:
1. 2.		0	0.0%		OBL species 20 x 1 = 20
3.		0	0.0%		FACW species 20 x 2 = 40
4.		0	0.0%		FAC species 0 x 3 = 0
5.		0	0.0%		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5ft)	0	= Total Cove	r	UPL species 25 x 5 = 125
1. Zea mays		25	✓ 38.5%	UPL	Column Totals: 65 (A) 185 (B)
2. Amaranthus tuberculatus		20	₹ 30.8%	OBL	Prevalence Index = B/A = 2,846
3. Echinochloa crus-galli		20	✓ 30.8%	FACW	Hydrophytic Vegetation Indicators:
4		0	0.0%		1 - Rapid Test for Hydrologic Vegetation
5.		0	0.0%		2 - Dominance Test is > 50%
6.		0	0.0%		✓ 3 - Prevalence Index is ≤3.0 1
7. 8.			0.0%		4 - Morphological Adaptations (Provide supporting
9.		0	0.0%		data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
10.		0	0.0%		
Woody Vine Stratum (Plot size: 15ft	1	65	= Tota! Cove	er	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Flot size, 15):	'	0	_ 0.0%		
2.		0	0.0%		Hydrophytic Vegetation
		0	= Total Cove	èı	Present? Yes No
Remarks: (Include photo numbers ho	ere or on a separa	te sheet.)			

file Descri						av Eastu	res			
Depth		fatrix				ox Featu				Remarks
(inches)	Color (m	oist)	%	Color (%	Type 1	Loc2	Texture	Remarks
0-16	10YR	3/1	93	10YR	5/1	5	D	М	Silty Clay	
+mottle				7.5YR	3/4	2	C	PL	Silty Clay	
	centration, D=	Dealation	PM=Reduc	ed Matrix	CS=Covero	ed or Coal	ed Sand Gr	ains.	² Location: PL=Pore Uning. N	1=Matrix.
lydric Soil I		Серлесоп	, ra r=reduc	201100119					Indicators for Problem	
Histosol (A				Sar	ndy Gleyed	Matrix (S4	1)			
_	pedon (A2)				ndy Redox				Coast Prairie Redox (A	(10)
Black Histi				-	pped Matri				Dark Surface (S7)	(513)
	Sulfide (A4)			process.	my Mucky		1)		Iron Manganese Mass	
Stratified	Layers (A5)			1	my Gleyed				Very Shallow Dark Su	face (TF12)
2 cm Muc					pleted Mate				Other (Explain in Rem	arks)
	Below Dark Su	ırface (A1	1)		pieted mau dox Dark Si		1			
	k Surface (A12				pleted Dark				3 Indicators of hydrophy	tic uncetation and
	ick Mineral (S1	Š.		annua .	pieted Dari dox Depres				wetland hydrology r	nust be present,
	ky Peat or Pea			ке	oox Depres	a:uns (Fd)			unless disturbed o	r problematic.
Type:	hes):								Hydric Soil Present?	Yes ● No ○
Type: Depth (inc Remarks:	hes):								Hydric Soil Present?	Yes ● No ○
Type:	hes):								Hydric Soil Present?	Yes ® No ○
Type:	hes): OGY drology Indic	ators:		rheck all fi	nat annivi					
Type:	OGY drology Indicators (minimu	ators:					(89)		Secondary Indicate	ors (m.nimum of two required
Type:	DGY drology Indicators (minimu	ators:		\Box	Water-Stair	ed Leaves	; (89)		Secondary Indicate Surface Soil Cri	ors (minimum of two required acks (B6)
Type:	DGY drology Indicators (minimulyater (A1) er Table (A2)	ators:			Water-Stair Aquatic Fau	ied Leaves ina (B13)			Secondary Indicate Surface Soil Cr. Drainage Patte	ors (minimum of two required acks (B6) rns (B10)
Type:	OGY drology Indicators (minimuly atter (A1) ter Table (A2) in (A3)	ators:			Water-Stair Aquatic Fau True Aquat	ied Leaves ina (B13) ic Piants (E	B14)		Secondary Indicate Surface Soil Cr. Drainage Patte Dry Season We	ors (minimum of two required acks (B6) rns (B10) ater Table (C2)
Type:	OGY drology Indicators (minimu Vater (A1) ter Table (A2) n (A3) arks (B1)	ators: m of one			Water-Stain Aquatic Fau True Aquat Hydrogen S	ied Leaves ina (B13) ic Piants (E iulfide Odo	B14) >r (C1)	Roots (C3	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wa	ors (m.nimum of two required. acks (B6) rns (B10) ster Table (C2) ws (C8)
Type: Depth (Inc. Remarks: IYDROLC Wetland Hyc Frimary Indic Surface V High Wat Saturatio Water Me Sediment	OGY drology Indicators (minimum Vater (A1) ter Table (A2) n (A3) orks (B1) t Deposits (B2)	ators: m of one			Water-Stain Aquatic Fau True Aquat Hydrogen S Oxidized Rh	ied Leaves ina (B13) ic Plants (E iulfide Odo izosphere	B14) or (C1) s on Living	Roots (C3	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season We Craylish Burrov) Saturation Visil	ors (minimum of two required acks (B6) rns (B10) oter Table (C2) vs (C8) ole on Aerial Imagery (C9)
Type:	DGY drology Indicators (minimus Vater (A1) iver Table (A2) in (A3) arks (B1) it Deposits (B2) oosits (B3)	ators: m_of one			Water-Stain Aquatic Fau True Aquat Hydrogen S Oxidized Rh Presence of	ned Leaves ina (B13) ic Piants (E iulfide Odo nizosphere: f Reduced	B14) or (C1) s on Living Iron (C4)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wa	ors (minimum of two required acks (B6) rns (B10) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) assed Plants (D1)
Type:	OGY drology Indicators (minimuly Vater (A1) for Table (A2) for table (A2) for table (B1) t Deposits (B2) for table (B3) t or Crust (B4)	ators: m_of one			Water-Stain Aquatic Fau True Aquat Hydrogen S Oxidized Rh Presence of Recent Iror	ied Leaves ina (B13) ic Piants (E iulfide Odd ivzosphere: f Reduced in Reduction	BI4) or (C1) s on Living Iron (C4) n in Tilled S		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season We Crayfish Burrov Saturation Visil Stunted or Stre Geomorphic Pc	ors (minimum of two required acks (B6) rns (B10) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1)
Type:	DGY drology Indicators (minimu Water (A1) for Table (A2) in (A3) t Deposits (B2) tor Crust (B4) osits (B5)	ators: m of one	is required;		Water-Stain Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence of Recent Iron Thin Muck	ied Leaves ina (B13) ic Piants (E iulfide Odo nizospherei f Reduced in Reduction Surface (C	B14) or (C1) or on Living Iron (C4) or in Tilled 5		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season We Crayfish Burrov Saturation Visit	ors (minimum of two required acks (B6) rns (B10) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1)
Type:	DGY drology Indicators (minimum Vater (A1) ter Table (A2) in (A3) int Deposits (B2) tor Crust (B4) osits (B5) on Visible on A	ators: m of one	is required:		Water-Stain Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence of Recent Iron Thin Muck: Gauge or V	ied Leaves ina (B13) ic Piants (E iuifide Odo izosphere: f Reduced in Reduction Surface (C Vell Data (I	B14) or (C1) s on Living Iron (C4) n in Tilled 5 (7) D9)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season We Crayfish Burrov Saturation Visil Stunted or Stre Geomorphic Pc	ors (minimum of two required acks (B6) rns (B10) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1)
Type:	DGY drology Indicators (minimu Water (A1) for Table (A2) in (A3) t Deposits (B2) tor Crust (B4) osits (B5)	ators: m of one	is required:		Water-Stain Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence of Recent Iron Thin Muck	ied Leaves ina (B13) ic Piants (E iuifide Odo izosphere: f Reduced in Reduction Surface (C Vell Data (I	B14) or (C1) s on Living Iron (C4) n in Tilled 5 (7) D9)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season We Crayfish Burrov Saturation Visil Stunted or Stre Geomorphic Pc	ors (minimum of two required acks (B6) rns (B10) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1)
Type:	DGY drology Indicators (minimum Vater (A1) ter Table (A2) in (A3) int Deposits (B2) tor Crust (B4) osits (B5) on Visible on A Vegetated Coi	ators: m_of one :)) werial Imagnicave Suri	is required: : gery (87) face (88)		Water-Stain Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence ol Recent Iror Thin Muck: Gauge or Y Other (Exp	ied Leaves ina (B13) ic Piants (E iuifide Odc vizospherer F Reduced n Reduction Surface (C Vell Data (I lain in Rem	B14) or (C1) s on Living Iron (C4) n in Tilled 5 (7) D9)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season We Crayfish Burrov Saturation Visil Stunted or Stre Geomorphic Pc	ors (minimum of two required acks (B6) rns (B10) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1)
Type: Depth (inc Remarks: IYDROLC Wetland Hyc Primary Indic Surface V High Water Me Saduratio User Me Jorift Dept Agai Mat Iron Dep Inundatic Sparsely	DGY drology Indicators (minimum Vater (A1) for Table (A2) for (A3) for (B1) for Order (B4) for Crust (B4) for	ators: m_of one :)) werial Imagnicave Suri	is required:		Water-Stain Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence of Recent Iron Thin Muck: Gauge or V	ied Leaves ina (B13) ic Piants (E iuifide Odc vizospherer F Reduced n Reduction Surface (C Vell Data (I lain in Rem	B14) or (C1) s on Living Iron (C4) n in Tilled 5 (7) D9)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season We Crayfish Burrov Saturation Visil Stunted or Stre Geomorphic Pc	ors (minimum of two required acks (B6) rns (B10) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1)
Type: Depth (inc Remarks: IYDROLC Wetland Hyc Primary Indic Surface V High Wat Saturatio Water Ma Sodiment Drift Dep Algain Mat I Indiatic Sparsely Field Observ	OGY drology Indic alors (minimu Water (A1) for Table (A2) in (A3) orks (B1) it Deposits (B2) osits (B3) or Crust (B4) or Crust (B4) or Vegetated Cor vations: ir Present?	ators: m.of one	is required: : gery (87) face (88)		Water-Stain Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence ol Recent Iror Thin Muck: Gauge or Y Other (Exp	ied Leaves ina (B13) ic Piants (E duffide Odc izosphere: F Reduced in Reduction Surface (C Vell Data (I dain in Ren ches):	B14) or (C1) s on Living Iron (C4) n in Tilled 5 (7) D9)	Soils (C6)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visil Stunted or Stre Geomorphic Pc FAC-Neutral Te	ors (minimum of two required acks (B6) rns (B10) siter Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) esset (D2) esset (D5)
Type:	DGY drology Indic alors (minimu Vater (A1) ter Table (A2) in (A3) orks (B1) t Deposits (B2) osits (B3) tor Crust (B4) or (SB5) on Visible on A Vegetated Cor vations: ter Present? Present?	erial Imag ncave Suri Yes Yes	gery (B7) face (B8) No (No (No (Water-Stain Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence of Recent Iror Thin Muck: Gauge or Y Other (Exp Depth (in Depth (in	ned Leaves ina (B13) ic Piants (E iuifide Odo izosphere: F Reduced in Reduction Surface (C Vell Data (I lain in Ren ches): ches):	B14) or (C1) s on Living Iron (C4) n in Tilled 5 (7) D9) narks)	We	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season We Crayfish Burror Saturation Visi Stunted or Stre Geomorphic Pc FAC-Neutral Te	ors (minimum of two required acks (B6) rns (B10) ster Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1)
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Photo File: DSCN8701.JPG Orientation:

-facing

Lat/Long or UTM: Long/Easting:

Lat/Northing:

Description:

Photo File DSCN8696.JPG Orientation:

-facing

Lat/Long or UTM: Long/Easting:

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Description:

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2. 0 0 0.0% Total Number of Dominant Species Across All Strata: 1 (B	Project/Site: Black Diamond		Gt	y/County: C	hristian		Sampling	Date: 07-Nov-19
Section, Township, Range: 5 7 T SN R 3V	Applicant/Owner: Swift Current				State:	Ikinois S	ampling Point:	DP9u
Local reliaf (coarave, convex, none): flat			S	Section, Towns	hip, Range:	s 7 T	13N R 3W	<u>'</u>
Long :				to	cal relief (co	oncave, convex, no	one): flat	
Les Stantum (Plot size: 30ft)		20 500740		Icna: -8	9 463307		Datum	: WGS 84
re climatichydrogic conditions on the site typical for this time of year? Yes No Ull no, cuprain in Remarks.) re Vegetation					3, 103307	NWI da	assification: None	
Very Statum Plot size: 30ft Solid S	oil Map Unit Name: Virden sifty cla	y loam, 0 to 2 percent slop	es	O No O	()(no. 6y			
Very Expertation Sat Very Individually Professorial Continued Con	(-2)				3*************************************			Yes @ No O
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Individually Research Yes No Research Tree Stratum (Plot sire: 30ft)		-						
Hydrophylic Vegetation Present? Yes	re Vegetation , Soil	, or Hydrology at	urally proble	ematic?	(If need	led, explain any an	iswers in Remarks.)	
Is the Sampled Area within a Wetland? Yes No	SUMMARY OF FINDINGS - A	ttach site map show	ing samp	oling point	location	ıs, transects,	important fea	atures, etc.
Within a Wetland Pydrocopy Present? Yes No ©	Hydrophytic Vegetation Present?	Yes O No @			100 100 100 100 100 100 100 100 100 100	889		
VegETATION - Use scientific names of plants. Species recently harvested soybean field	Hydric Soil Present?	Yes O No 💿		Is the	Sampled A a Wetland		n (e)	
VEGETATION - Use scientific names of plants. Species	•	Yes C No 💿		"""		. 16 0 11	00	
VEGETATION - Use scientific names of plants. Dominant Species TeleStratum (Plot size: 30ft) Absolute Rel.Strat. Indicator Status 1 0 0.0% 0.0% 1 1 1 1 1 1 1 1 1								
VEGETATION - Use scientific names of plants.								
Absolute Rel. Stratum Plot size: 30ft								
Absolute Species Thick Species That Are OBL, FACW, or FAC: O O O O O O O O O		.:6:		Daminant				
Tree Stratum (Plot size: 30ft 0 0 0 0 0 0 0 0 0	VEGETATION - Use scie	entific names of plant		_ Species? _				
1. 0 0 0.6% That are OBL, FACW, or FAC: 0 (A 2. 0 0.0% Total Number of Dominant Species Areas All Stratum (Plot size: 15ft) 0 0.0% Prevalence Index worksheet: Total 92 Cover of: Multiply by: 0 0.0% Prevalence Index sees 50 x 1 = 0 0.0% Prevalence Index sees 50 x 2 = 0 0.0% Prevalence Index sees 50 x 4 = 0 0.0% Prevalence Index sees 50 x 5 = 250 (B) Prevalence Index sees 50 x 5 = 250 (B) Prevalence Index sees 50 x 5 = 250 (B) Prevalence Index sees 50 x 5 = 250 (B) Prevalence Index sees 50 x 5 = 250 (B) Prevalence Index sees 50 x 5 = 250 (B) Prevalence Index sees 50 x 5 = 250 (B) Prevalence Index sees 50 x 5 = 250 (B) Prevalence Index sees 50 x 5 = 250 (B) Prevalence Index sees 50 x 5 = 250 (B) Prevalence Index sees 50 x 5 = 250 (B) Prevalence Index sees 50 x 5 = 250 (B) Prevalence Index sees 50 (B) Prevalence Index	To Challes (Olot size: 30ft	1		Rel.Strat.	Indicator Status			
2. 0				,-,				0 (A)
3. 0 0.0% Species Across All Stratum (Plot size: 15ft) 1. 0 0.0% Prevalence Index worksheet: 1. 0 0.0% OBS species 0 x1 = 0 3. 0 0.0% FACW species 0 x2 = 0 4. 0 0.0% FACW species 0 x3 = 0 5. 0 0.0% FACW species 0 x4 = 0 UPL species 50 x5 = 250 Column Totals: 50 (A) 250 (B) Prevalence Index = B/A = 5,000 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrologic Vegetation 2 - Dominantc Test is > 50% 1 not only a problematic. 1 - Rapid Test for Hydrologic Vegetation 2 - Dominantc Test is > 50% 1 not only a problematic. 1 - Rapid Test for Hydrologic Vegetation 2 - Dominantc Test is > 50% 1 not only a problematic. 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 2 - Dominant Test is > 50% 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 2 - Dominant Test is > 50% 1 - Rapid Test for Hydrologic Vegetation 1 (Explain) 2 - Dominant Test is >				_		i (di anata) n 34		(,
4. 0 0 0.0% Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A 5.00/mo/Shrub Stratum (Plot size: 15ft) 1. 0 0.0% Prevalence Index worksheet: Total 92 Cover of: Multioly by: OBL species 0 x 1 = 0 OBL species 0 x 2 = 0 FACW species 0 x 3 = 0 FACW species 0 x 4 = 0 UPL species 0 x 4 = 0 UPL species 50 x 5 = 250 UPL species 50 x 5 = 250 Column Totals: 50 (A) 250 (B) Prevalence Index = B/A = 5,000 Herb Stratum (Plot size: 5ft) O 0.0% Prevalence Index = B/A = 5,000 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrologic Vegetation O 0.0% O.0% O.0% O.0% O.0% O.0% O.0% O.0			Annual Section					1 (8)
5. 0 □ 0.0% 0 = Total Cover Saolinor/Shrub Stratum (Plot size: 15ft)			0	0.0%				
Sao'inor/Shrub Stratum (Plot size: 15ft)			0	0.0%				0.0% (A/E
1. 0 0.0% Total % Cover of: Multiply by: 2. 0 0.0% OBL species 0 x 1 = 0 3. 0 0.0% FACW species 0 x 2 = 0 4. 0 0.0% FACW species 0 x 3 = 0 5. 0 0.0% FACS species 0 x 4 = 0 UPL species 0 x 4 = 0 UPL species 0 x 4 = 0 UPL species 50 x 5 = 250 Total Cover Herb Stratum (Plot size: 5ft) 0 = Total Cover 1. Zea mays 50 ✓ 100.0% UPL 2. 0 0.0% Prevalence Index = B/A = 5,000 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrologic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0 ¹ 4 - Morphological Adaptations ¹ (Provide suppor data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) 1 Indicators of hydric soil and wetland hydrology me be present, unless disturbed or problematic. Hydrophytic Vegetation 1 Indicators of hydric soil and wetland hydrology me be present, unless disturbed or problematic.			0	= Total Cover		That Are OBL,	FACTO, OF FAC:	0,070
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4. 0 0.0% FAC species 0 x 3 = 0 5. 0 0.0% FACU species 0 x 4 = 0 UPL species 0 x 4 = 0 UPL species 50 x 5 = 250 UPL species 50 x 5 = 250 Column Totals: 50 (A) 250 (B) Prevalence Index = B/A = 5,000 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrologic Vegetation 5. 0 0.0% 6. 0 0.0% 7. 0 0.0% 8. 0 0.0% 9. 0 0.0% 9. 0 0.0% 10. 0 0.0% 10. 0 0.0% 11. Rapid Test for Hydrologic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0 ¹ 4 - Morphological Adaptations ¹ (Provide suppor data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Woody Vine Stratum (Plot size: 15ft) 1. 0 0.0% 2 - Total Cover Hydrophytic Vegetation ¹ (Explain) 1 - Indicators of hydric soil and wetland hydrology mbe present, unless disturbed or problematic. Hydrophytic Vegetation 1 - Hydrophytic Vegetation ↑ (Explain) 1 - Indicators of hydric soil and wetland hydrology mbe present, unless disturbed or problematic. 1 - Hydrophytic Vegetation ↑ (Explain) 1 - Hydrophytic Vegetation ↑ (Explain) 1 - Hydrophytic Vegetation 1 - Remarks or on a separate sheet) 2 - Dominance Test is > 50% 3 - Prevalence Index = B/A = 5,000 4 - Mydrophytic Vegetation I (Explain) 1 - Rapid Test for Hydrologic Vegetation 1 - Rapid Test for Hydrologic Vegetation 1 - Rapid Test for Hydrologic Vegetation 1 - Indicators of hydric soil and wetland hydrology mbe present, unless disturbed or problematic.	2.		. 0	_				
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Herb Stratum (Plot size: 5ft) 0 = Total Cover UPL species 50 x 5 = 250 1. Zea mays 50			-					
1 Zea mays 50	5			-				
1, Zea mays 2. 0 0.0% 3. 0 0.0% 4. 0 0.0% 5. 0 0.0% 6. 0 0.0% 7. 0 0.0% 8. 0 0.0% 8. 0 0.0% 9. 0 0.0% 9. 0 0.0% 10. 0 0.0% 9. 0 0.0% 10. 0 0.0% 10. 0 0.0% 10. 0 0.0% 10. 0 0.0% 10. 0 0.0% 10. 0 0.0% 10. 0 0.0% 11. Rapid Test for Hydrologic Vegetation 12. Dominance Test is > 50% 13. Prevalence Index is ≤3.0 ¹ 14. Morphological Adaptations ¹ (Provide suppor data in Remarks or on a separate sheet) 10. 0 0.0% 11. Indicators of hydric soil and wetland hydrology may be present, unless disturbed or problematic. 12. 0 0.0% 13. Prevalence Index is ≤3.0 ¹ 14. Morphological Adaptations ¹ (Provide suppor data in Remarks or on a separate sheet) 15. 0 0.0% 16. 0 0.0% 17. 1 1. Indicators of hydric soil and wetland hydrology may be present, unless disturbed or problematic. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18.	Herb Stratum (Plot size: 5ft)		= Total Cove				A series and a ser
3.	1, Zea mays		50	✓ 100.0%	UPL	Column Total:	s: 50 (A) 250 (B)
1 - Rapid Test for Hydrologic Vegetation 2 - Dominance Test is > 50% 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0 4 - Morphological Adaptations 1 (Provide suppor data in Remarks or on a separate sheet) 9 - 0 0.0% 4 - Morphological Adaptations 1 (Provide suppor data in Remarks or on a separate sheet) 10 0.0% Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology m be present, unless disturbed or problematic. 1 1 1 1 1 1 1 1 1	2		0	0.0%		Prevalence	e Index = $8/\Lambda$ =	5,000
4. 0 0.0% 1 - Rapid Test for Hydrologic Vegetation 5. 0 0.0% 2 - Dominance Test is > 50% 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0 ¹ 7. 0 0.0% 3 - Prevalence Index is ≤ 3.0 ¹ 4 - Morphological Adaptations ¹ (Provide suppor data in Remarks or on a separate sheet) 9. 0 0.0% □ Problematic Hydrophytic Vegetation ¹ (Explain) 10. 0 0.0% □ Total Cover □ Hydrophytic Vegetation ¹ (Explain) 1 Indicators of hydric soil and wetland hydrology me present, unless disturbed or problematic. 1 Hydrophytic Vegetation Present? Yes □ No ●	3					Hydrophytic Ve	getation Indicate	ors:
6. 0 0.0% 2 - Dominance Test is > 50% 1 7. 0 0.0% 3 - Prevalence Index is ≤ 3.0 1 8. 0 0.0% 4 - Morphological Adaptations 1 (Provide suppor data in Remarks or on a separate sheet) 9. 0 0.0% Problematic Hydrophytic Vegetation 1 (Explain) 10. 0 0.0% 1 Indicators of hydric soil and wetland hydrology make present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology make present, unless disturbed or problematic. 1 Hydrophytic Vegetation Present? Yes No ●				-				
7. 0 0.0% 3 - Prevalence Index is ≤ 3.0 ¹ 8. 0 0.0% 4 Horphological Adaptations ¹ (Provide suppor data in Remarks or on a separate sheet) 9. 0 0.0% Problematic Hydrophytic Vegetation ¹ (Explain) 10. 50 = Total Cover Woody Vine Stratum (Plot size: 15ft) 1. 0 0.0% Hydrophytic Vegetation 1 (Explain) 2. 0 0.0% Hydrophytic Vegetation Present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes No ●			-			2 - Dominar	nce Test is > 50%	,
8. 0 0.0% 4 Morphological Adaptations ¹ (Provide support data in Remarks or on a separate sheet) 10. 0 0.0% Problematic Hydrophytic Vegetation ¹ (Explain) 10. 50 = Total Cover Woody Vine Stratum (Plot size: 15ft) 1. 0 0.0% Hydrophytic Vegetation ¹ (Indicators of hydric soil and wetland hydrology metapersent, unless disturbed or problematic. 1. 0 0.0% Hydrophytic Vegetation Vegetation Present? Yes No •			11.00			3 - Prevaler	nce Index is ≤3.0	1
9. 0 0.0% Problematic Hydrophytic Vegetation 1 (Explain) 10. 50 = Total Cover Woody Vine Stratum (Plot size: 15ft) 1. 0 0.0% Hydrophytic Vegetation 2 Indicators of hydric soil and wetland hydrology make present, unless disturbed or problematic. 1. 0 0.0% Hydrophytic Vegetation 2 Vegetation Present? Yes No 9				The second second second		4 - Morphol	logical Adaptation	is ¹ (Provide support
10.				F			**************************************	Manager Berger Warranger
Woody Vine Stratum (Plot size: 15ft) 1. 0 0.0% 0 0.0% Hydrophytic Vegetation Present? Yes No •						CONTRACTOR OF THE PROPERTY OF		
1. 0 0.0% 1. 0 0.0% Hydrophytic Vegetation Present? Yes No •		ft)			r	1 Indicators of be present, un	f hydric soil and w less disturbed or	etland hydrology mu problematic.
2. O O.0% Hydrophytic Vegetation Present? Yes No •	The South of the Control of the Cont		n	0.0%				
0 4 Total Cover Present? Yes No •								
	۷.			-	г		Yes O No	•)
Remarks: (Include photo numbers here or on a separate sheet.)								
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*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

US Army Corps of Engineers Midwest Region - Version 2.0

Profile Descrip			ne aeptn n	leeded to (minim car	absence of indicators.)	
Depth (inches)	Color (n	Matrix noist)	%	Color (ox Featu	Type 1	Loc2	Texture	Remarks
0-6	10YR	3/1	100							
6-18	10YR	3/1	92	7.5YR	3/4	1	С	PL	Silty Clay	
+mottle				10YR	5/1	7	D	М	Silty Clay	
Type: C=Conce	entration, D=	Depletion	, RM=Redu	ced Matrix,	CS=Covere	d or Coal	ted Sand Gr	ains.	² Location: PL=Pore Lining. M=	Matrix.
Hydric Soil In	dicators:								Indicators for Problema	tic Hydric Soils ³ :
Histosol (A)	100				ndy G'eyed		4)		Coast Prairie Redox (A)	6)
Histic Epipe				process.	ndy Redox (and the same			Dark Surface (S7)	
Black Histic				-	pped Matri		1000124		Iron Manganese Masses	(F12)
 Hydrogen S Stratified Li 					my Mucky				Very Shallow Dark Surfa	ice (TF12)
2 cm Muck					my Gleyed		2)		Other (Explain in Remar	ks)
Depleted B		urface (A1	1)		pleted Matri		.,			533
Thick Dark				-	dox Dark Su				3	
Sandy Muci					pleted Dark				³ Indicators of hydrophytic wetland hydrology mu	vegetation and ist be present.
	y Peat or Pea			Red	dox Depress	(81) and	,		unless disturbed or p	problematic.
Restrictive La	yer (if obse	rved):								
									1	
Type:									11 1 1 5 5 11 B	(() N- ()
	es):								Hydric Soil Present? Y	res O No 🗨
Type: Depth (inche Remarks:									Hydric Soil Present? Y	res O No 🖲
Type:	GY	cators:								
Type: Depth (inche	GY ology Indic		's required;	check all th	at accly)				Secondary Indicators	(minimum of two required
Type: Depth (inche Remarks: HYDROLOG Wetland Hydr	GY ology Indic tors (minimu		's required;	v	Vater-Stain		s (B9)		Secondary Indicators Surface Soil Craci	(minimum of two required
Type:	GY rology Indic tors (minimu ater (A1) r Table (A2)	m of one	's required;	☐ v	Vater-Stain Aquatic Fau	na (B13)			Secondary Indicators Surface So-1 Crac Drainage Pattern	(minimum of two required is (B6) s (B10)
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Type:	GY ology Indic tors/minimu ater (A1) r Table (A2) (A3) ks (B1)	m of one	s required:		Vater-Stain Aquatic Fau True Aquatic Hydrogen St	na (B13) : Plants (l uifide Ode	B14) or (C1)	Poots (C2)	Secondary Indicators Surface Soil Craci Drainage Pattern Dry Season Wate Crayfish Burrows	(minimum of two required vs (B6) s (B10) r Table (C2) (C8)
Type:	GY rology Indic tors (minimu ater (A1) r Table (A2) (A3) ks (B1) Depos ts (B2	m of one	s required:		Vater-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh	na (B13) : Plants (l uifide Ode :zosphere	B14) or (C1) es on Living	Roots (C3)	Secondary Indicators Surface Soil Craci Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible	(minimum of two required vs (86) 5 (810) r Table (C2) (C8) on Aerial Imagery (C9)
Type:	GY rology Indic tors/minimu ater (A1) r Table (A2) (A3) ks (B1) Depos ts (B2 sits (B3)	m of one	s required:	T Y	Vater-Stains Aquatic Faus True Aquatic Hydrogen St Oxidized Rh Presence of	na (B13) : Plants (l uifide Odi zosphere Reduced	B14) or (C1) es on Living Iron (C4)		Secondary Indicators Surface Soil Craci Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress	(minimum of two required is (B6) s (B10) r Table (C2) (C8) e on Aerial Imagery (C9) and Plants (D1)
Type:	GY rology Indic tors/minimu ater (A1) r Table (A2) (A3) ks (B1) Depos ts (B2 sits (B3) or Crust (B4)	m of one	is required:	U T	Vater-Stains Aquatic Faus Frue Aquatic Hydrogen St Oxidized Riv Presence of Recent Iron	na (B13) : Plants (l uifide Ode zosphere Reduced Reductio	B14) or (C1) es on Living Iron (C4) en in Tilled S		Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Post	(minimum of two required es (86) s (810) r Table (C2) (C8) on Aerial Imagery (C9) ed Plants (D1) ion (D2)
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Photo File: None.bmp	Orientation:		-facing
Lat/Long or UTM: Long/Easting:		Lat/Northing:	
Description:			

ject/Site: Black Diamond		City	/County: Christian	Sampling Date: 08-Nov-19
			State	e: Illinois Sampling Point: DP10w
			ection, Township, Range	
restigator(s): ES, JW ndform (hillslope, terrace, etc.): Low	land			(concave, convex, none): concave
				Satura WGS 84
pe: 2.0% / 1.1 ° Lat.:	39.561632		Long.: -89.456423	
Map Unit Name: Virden silty cla	y loam. 0 to 2 percent slo	opes	0 110	NWI dassification: PEM1Af
e climatic/hydrologic conditions on th			NO C (If no, e	explain in Remarks.)
e Vegetation, Soil 🗸	, or Hydrology 💆 s	ignificantly dist	urbed? Are "I	Normal Circumstances" present? Yes Ves No
e Vegetation , Soil L	, or Hydrology n	aturally proble	matic? (If ne	eded, explain any answers in Remarks.)
UMMARY OF FINDINGS - A	Attach site map show	wing samp	ling point location	ons, transects, important features, etc.
ydrophytic Vegetation Present?	Yes No			
ydric Soil Present?	Yes No		Is the Sampled within a Wetlan	
letland Hydrology Present?	Yes No		Within a freda	165 NO C
Remarks: wetland is depression in cultivate	d an field, wetland itself i	not cultivated		
wedana is depression in colorace	a ug neia, meeano issa.			
VEGETATION - Use sci	entific names of plar		Dominant Species?	
206		Absolute % Cover	Rel.Strat. Indicate Cover Status	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft)	0	0.0%	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1		0	0.0%	That are obc, there, or the
2		0	0.0%	Total Number of Dominant Species Across All Strata: 2 (B)
3. 4.			0.0%	Species Across At Strata.
5.		0	0.0%	Percent of dominant Species That Are ORL FACW or FAC: 100.0% (A/B)
J		0	= Total Cover	That Are OBL, FACW, or FAC: 100.0% (AVB)
Saoling/Shrub Stratum (Plot size: 1	iSft)			Prevalence Index worksheet:
1.		0	0.0%	Total % Cover of: Multiply by:
2.		0	0.0%	O6L species 10 x 1 = 10
3.		0	0.0%	FACW species 30 x 2 = 60
4.		0	0.0%	FAC species 25 x 3 = 75
5.		0	0.0%	FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5ft)	0	= Total Cover	UPL species $0 \times 5 = 0$
1. Xanthium strumarium		25	▼ 38.5% FAC	Column Totals: 65 (A) 145 (B)
2. Echinochloa crus-galli		30	▼ 46.2% FACW	Prevalence Index = 8/A = 2.231
3. Amaranthus tuberculatus		10	15.4% OBL	Hydrophytic Vegetation Indicators:
4.		0	0.0%	1 - Rapid Test for Hydrologic Vegetation
5.		_ 0	0.0%	2 - Dominance Test is > 50%
		0	0.0%	✓ 3 - Prevalence Index is ≤3.0 1
6.		_	0.001	1 2 2
7.			0.0%	4 - Morphological Adaptations 1 (Provide supporting
7. 8.		0	0.0%	data in Remarks or on a separate sheet)
7. 8. 9.		0	0.0%	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
7. 8.		0 0	0.0%	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must
7. 8. 9. 10.	Sft)	0	0.0%	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
7. 8. 9.	Sft)	0 0	0.0%	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. 8. 9. 10. Woody Vine Stratum (Plot size: 1.		0 0 0 65	0.0% 0.0% 0.0% = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic
7. 8. 9. 10. Woody Vine Stratum (Plot size: 1		0 0 0 65	0.0% 0.0% 0.0% = Total Cover	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

	ption: (Des									
Depth		Matrix			Red	ox Feat				
(inches)	Color (n	noist)	%	Color ((moist)	%	Type 1	Loc2	Texture	Remarks
0-16	10YR	3/1	100						Clay	
16-20	10YR	3/1	100						Clay	
20-24	10YR	3/1	97	2.5Y	6/6	3	c	M	Clay	
2024					·					
Type: C=Conc		=Depletion,	RM=Reduce	_				ains.	² Location: PL=Pore	e Lining, M=Matrix. Problematic Hydric Soils ³ :
H stosol (A				,	ndy Gleyed		4)		Coast Prairie	Redox (A16)
Histic Epip				_	ndy Redox (✓ Dark Surface	2 (\$7)
_ Black Histi				Comme.	ripped Matri:				☐ Iron Mangar	nese Masses (F12)
	Sulfide (A4)			Lo	amy Mucky	Mineral (F1)		Very Shallov	v Dark Surface (TF12)
Stratified I				Lo	amy Gleyed	Matrix (F	-2)		The second control of	in in Remarks)
2 cm Muck					epleted Matri					0.000 mm
	Below Dark S)	Re	dox Dark St	urface (Fé	5)			
	Surface (Al			F	epleted Dark				Indicators of	hydrophytic vegetation and
	ck Mineral (S			Re	dox Depres	sions (F8)		wettand hi unless di	ydrology must be present, sturbed or problematic.
	ky Peat or Pe									1
									1	
Restrictive La	ayer (if obs	ervea):								1000
Restrictive La Type:		ervea):						-	Hydric Soil Pres	sent? Yes • No O
Restrictive La		erved):							Hydric Soil Pres	sent? Yes • No
Restrictive La Type: Depth (incl Remarks:	nes):	erved):							Hydric Soil Pres	sent? Yes • No
Restrictive La Type:	nes): DGY Irology Indi	cators:		and all t	hat angle)					
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Restrictive La Type: Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface W.	OGY Irology Indi	cators: um of one is	s required : C	V	Water-Stain				Secondar V Surfa	v.Indicators (minimum of two required ce Sol Cracks (B6)
Restrictive La Type: Depth (incl Remarks: IYDROLO Wetland Hyd Primary Indica Surface W. High Water	OGY rology India tors (minimaler (A1) er Table (A2)	cators: um of one is	s required: C	_	Water-Stain Aquatic Fau	na (B13)			Secondar Surfa Drain	v Indicators (minimum of two required ce Sol Cracks (B6) age Patterns (B10)
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Restrictive La Type: Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Surface W. High Wate Water Ma Sediment Drift Dept Algal Mat	OGY Irology India India (A2) In (A3) In (A8) Deposts (B1) Deposts (B3) or Crust (B4)	cators: um of one is	s required: C		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron	na (B13) c Plants (ulfide Od izosphere Reduced Reductio	(B14) for (C1) es on Living Hiron (C4) on in Tilled S		Secondar Surfa Drain Dray S Crayf Saturt Stunt Geon	v. Indicators (minimum of two required ce Sol Cracks (86) age Patterns (810) leason Water Table (C2) lish Burrows (C8) ration Visible on Aerial Imagery (C9) led or Stressed Plants (O1) horphic Position (O2)
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Restrictive La Type: Depth (incl Remarks: IYDROLO Wetland Hyd Primary Indica Surface W High Water Ma Sediment Depth Depth Algal Mat Iron Depth Sparsely Field Observ Surface Water	or Cust (B4) or Cu	cators: um of one is ?)) Aerial Imagg	ery (B7) ace (B3)		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl.)	na (B13) c Plants (ulfide Od izosphere Reduced Reductio Surface (fell Data in Reductio surface)	(B14) for (C1) es on Living d Iron (C4) on in Tilled S (C7) (D9) marks)	Soils (C6)	Secondar Surfa Drain Dray S Crayf Stunt Geon	v. Indicators (minimum of two required ce Sol Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (O1) norphic Position (O2) Neutral Test (D5)
Restrictive La Type: Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Signature Mark Sediment Drift Dept Algal Mat Iron Depc Inundation Sparsely Field Observ Surface Water Table F Saturation Pro Unduder Saturation Pro	DGY Irology India Itorology India Ito	cators: um of one is in of one is Aerial Image oncave Surfa Yes Yes Yes	ery (87) ace (83) • No © • No ©		Water-Stain Aquabic Fau True Aquabi Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expli	na (B13) c Plants (ulfide Od izosphere Reduced Reductio Surface ((/eli Data i ain in Rei ches): ches):	(B14) lor (C1) as on Living B Iron (C4) on in Titled S (C7) (D9) marks)	We	Secondar Surfa Drain Dry S Crayf Satur Stunt Geon FAC-	v. Indicators (minimum of two required ce Sol Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (O1) norphic Position (O2) Neutral Test (D5)
Restrictive La Type: Depth (incl Remarks: HYDROLO Wetland Hyd Primary Indica Signature Mark Sediment Drift Dept Algal Mat Iron Depc Inundation Sparsely Field Observ Surface Water Table F Saturation Pro Unduder Saturation Pro	DGY Irology India Itorology India Ito	cators: um of one is in of one is Aerial Image oncave Surfa Yes Yes Yes	ery (87) ace (83) • No © • No ©		Water-Stain Aquabic Fau True Aquabi Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expli	na (B13) c Plants (ulfide Od izosphere Reduced Reductio Surface ((/eli Data i ain in Rei ches): ches):	(B14) lor (C1) as on Living B Iron (C4) on in Titled S (C7) (D9) marks)	We	Secondar Surfa Drain Dray S Crayf Stunt Geon	v. Indicators (minimum of two required ce Sol Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (O1) norphic Position (O2) Neutral Test (D5)



Photo File: DSCN8729.JPG Lat/Long or UTM : Long/Easting:

Orientation:

Description:

Lat/Northing:

Photo File: DSCN8732.JPG Orientation:

-facing

Lat/Long or UTM: Long/Easting:

Lat/Northing:

Description:

	Piot ID:	DP10w	Photo Path: C:\WetForm\Jolie\Bla	ck Diamond\Pho
		N	lo Photo	
Photo File: DSCN8734.JPG Orier	tation:	-facing Photo File: None.bmp	Orientation:	-facing
Long/Easting:	Lat/Northing:	Long/Easting	: Lat/Northing	:
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Photo File: None.bmp Long/Easting:	Orientation: Lat/Northing:	-facing	Photo File: None.bmp Long/Easting:	Orientation: Lat/Northing:	-facing
Description:			Description:		

roject/Site: Black Diamond		City	/County: Christia	n Sampling Date: 08-Nov-19
•				state: Illinois Sampling Point: DP10u
nvestigator(s): ES, JW			ection, Township, R	
andform (hillslope, terrace, etc.): Flat				lief (concave, convex, none): flat
	20.561405		Long.: -89.455	Datum: WGS 84
lope: 0.0% / 0.0 ° Lat.:			Luig09.43.	NWI classification: None
ol Map Unit Name: Virden silty cla	y loam, 0 to 2 percent sig	opes	No O III	no, explain in Remarks.)
re climatic/hydrologic conditions on the re Vegetation , Soil V		ignificantly dist	urbed? A	re "Normal Circumstances" present?
re Vegetation , Soil	, or Hydrology n	aturally proble	matic? (f needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - A	Attach site map show	wing samp	ling point loc	ations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes O No 💿			
Hydric Soil Present?	Yes O No 💿		Is the Samp	oled Area Otland? Yes O No 💿
Wetland Hydrology Present?	Yes 🔾 No 💿			10 - 110 -
Remarks: Cultivated cropland VEGETATION - Use scie	entific names of plar	nts.	Dominant _ Species?	
		Absolute	Rel.Strat. Indi	
Tree Stratum (Plot size: 30ft)	% Cover	(-1)	Number of Dominant Species That are OBL FACW, or FAC: 0 (A)
1		0	0.0%	That are OBL, FACW, or FAC: 0 (A)
2.			0.0%	Total Number of Dominant Species Across All Strata: 1 (B)
3 4.			0.0%	Species Across All Strata: 1 (B)
5.		0	0.0%	Percent of dominant Species That Are ORL FACTY or FACTY 0.0% (A/B)
		0	= Total Cover	That Are OBL, FACW, or FAC: 0.0% (A/B)
Sapino/Shrub Stratum (Plot size: 1	Sft)			Prevalence Index worksheet:
1.		0	0.0%	Total % Cover of: Multiply by:
2.		0	0.0%	OBL species 0 x 1 = 0
		0	0.0%	FACW species 0 x 2 = 0
4.		0	0.0%	FACU species 0 x 3 = 0 FACU species 0 x 4 = 0
5		0	= Total Cover	FACU species 0 x 4 = 0 UPL species 80 x 5 = 400
Herb Stratum (Plot size: 5ft)			(0)
1, Glycine max		80	✓ 100.0% UPL	
			0.0%	Prevalence Index = 8/A = 5.000
3		0	0.0%	Hydrophytic Vegetation Indicators:
4		0	0.0%	1 - Rapid Test for Hydrologic Vegetation
6.		0	0.0%	2 - Dominance Test is > 50%
7.		0	0.0%	3 - Prevalence Index is ≤3.0 ¹
8.		0	0.0%	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
9		0	0.0%	Problematic Hydrophytic Vegetation 1 (Explain)
10.		0	0.0%	1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 15	oft)	80_	= Total Cover	be present, unless disturbed or problematic.
1,		0	0.0%	Hydrophytic
2		0	0.0%	Vegetation
		0	■ Total Cover	Present? Yes No W
Remarks: (Include photo number	ers here or on a separate	sheet.)		

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	Mat	-iv			Redox Fea	atures		absence of indicators	
Depth nches)	Color (mois		6	Color (mois			Loc	Texture	Remarks
0-16				.5YR 3	3/4 2	c	М	Clay	
dric Soil In Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L 2 cm Muck Depleted B Tnick Dark Sandy Muc	al) edon (A2) c (A3) Sulfide (A4) ayers (A5) c (A10) Below Dark Surfa c Surface (A12) ck Mineral (S1)	ace (All)	=Reduced	Sandy G Sandy R Stripped Loamy M Loamy O Depletes Redox D	Covered or Co leyed Matrix edox (55) I Matrix (56) Mucky Minera Bleyed Matrix (64) Matrix (F3) Mark Surface (64) Depressions (10)	(54) d (F1) d (F2) (F6) ce (F7)	o'ns.	Coast Prairie Rec Dark Surface (S7 Iron Manganese Very Shallow Da Other (Explain in	blematic Hydric Soils ³ : dox (A16) ?) Masses (F12) rk Surface (TF12)
	y Peat or Peat (un'ess a sturi	bed or problematic.
								1	
	iyer (ir observi	ed):						1	
Type: Depth (inch		ed): 						Hydric Soil Present	7 Yes O No 🖲
Type: Depth (inch temarks:	nes):	ed):						Hydric Soil Present	7 Yes O No 🖲
Type:	nes):			-				Hydric Soil Present	7 Yes ○ No •
Type:	GY rology Indicat	ors:	ouired; ch	ock all that a	20'Y)				7 Yes No No dicators (minimum of two required
Type:	GY rology Indicat	ors:	auired: .cho		oo'y)	oves (89)		Secondary In	
Type:	GY rology Indicat	ors:	auired:_chr	Water				Secondary In Surface S Dirainage	dicators (minimum of two required iol Cracks (86) Patterns (810)
Type: Depth (inch Remarks: IYDROLO Wetland Hydi Surface W	rology Indicat stors (minimum (ater (A1) er Table (A2)	ors:	auired: .che	Water	r-Stained Lea	3)		Secondary In Surface S Dirainage Dry Sease	dicators (minimum of two required foil Cracks (86) Patterns (810) on Water Table (C2)
Type: Depth (inch Remarks: IYDROLO Wetland Hydi Primary Indica Surface W High Wate	rology Indicat stors (minimum (ater (A1) er Table (A2) n (A3)	ors:	auired: .che	Water Aqual True Hydro	r-Stained Lea tic Fauna (B1 Aquatic Plant ogen Sulfide (3) is (B14) Odor (C1)		Secondary In Surface S Drainage Dry Sease Crayfish I	dicators (minimum of two required to) Cracks (86) Patterns (810) on Water Table (C2) Burrows (C8)
Type:	rology Indicat stors (minimum (ater (A1) er Table (A2) n (A3)	ors:	auired: .ch	Water Aqual True Hydro	r-Stained Lea tic Fauna (B1 Aquatic Plant ogen Sulfide (3) is (B14)	Roots (C3)	Secondary In Surface S Drainage Dry Seass Crayfish I Saturatio	dicators (minimum of two reduced for Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Type: Depth (inch Remarks: IYDROLO Vettand Hydi Primary Indica Surface W High Wate Saturation Water Mar Sediment	OGY rology Indicat stors (minimum of dater (A1) er Table (A2) (A3) rks (B1) Deposits (B2)	ors:	auired:_Chr	Water Aquat True Hydro	r-Stained Lea tic Fauna (B1 Aquatic Plant ogen Sulfide (zed Rhizosph	3) is (B14) Odor (C1)	Roots (C3)	Secondary In Surface S Drainage Dry Seass Crayfish I Saturatio	dicators (minimum of two required to) Cracks (86) Patterns (810) on Water Table (C2) Burrows (C8)
Type: Depth (inch temarks: YDROLO Vetland Hydr Trimary Indica Surface W High Water Saturation Water Mar Sediment Drift Depc	OGY rology Indicat stors (minimum of dater (A1) er Table (A2) (A3) rks (B1) Deposits (B2)	ors:	auired:.ch	Water Aquat True Hydro Oxida Prese	r-Stained Lea tic Fauna (B1 Aquatic Plant ogen Sulfide (zed Rhizosph ince of Reduc	3) is (B14) Odor (C1) eres on Living		Secondary In Surface S Drainage Dry Sease Crayfish t Saturatio Stunted o	dicators (minimum of two reduced for Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Type: Depth (inch Remarks: IYDROLO Wetland Hydr Primary Indica Surface W High Water Saturation Water Mar Sediment Drift Depc Algal Mat	rology Indicatators (minimum dater (A1) er (A3) rks (B1) Deposits (B2) ests (B3) or Crust (B4)	ors:	auiredt, che	Water Aquat True Hydro Oxidia Prese	r-Stained Lea tic Fauna (B1 Aquatic Plant ogen Sulfide (zed Rhizosph ince of Reduc	3) is (B14) Odor (C1) eres on Living ced Iron (C4) ction in Tilled S		Secondary In Surface S Drainage Dry Seas Crayfish I Saturatio Stunted o	dicators (minimum of two required to Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Type: Depth (inch Remarks: YDROLO Vetland Hydr Primary Indica Surface W High Water Saturation Water Mai Sediment Drift Depc Algal Mat Iron Depo	rology Indicatators (minimum atter (AL) er Table (A2) in (A3) Deposits (B1) Deposits (B3) or Crust (B4) osits (B5)	ors: of one is re		Water Aqual True Hydro Oxidu Prase Recer	r-Stained Lea tic Fauna (B1 Aquatic Plant ogen Sulfide (zed Rhizosph ince of Reduc nt Iron Reduc	3) Is (B14) Odor (C1) Heres on Living (Ced Iron (C4) Litton in Tilled Sec (C7)		Secondary In Surface S Drainage Dry Seas Crayfish I Saturatio Stunted o	dicators (minimum of two required for Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) in Visible on Aerial Imagery (C9) or Stressed Plants (D1) inic Position (D2)
Type:	rology Indicatators (minimum alater (A1) er (A3) rks (B1) Deposits (B2) ests (B3) or Crust (B4)	ors: of one is re	(87)	Water Aqual True Hydro Oxido Prase Recer Thin	r-Stained Lea tic Fauna (B1 Aquatic Plant ogen Sulfide (zed Rhizosph nice of Reduc Muck Surface Muck Surface	s (B14) Odor (C1) eres on Living to the Iron (C4) ction in Tilled Se (C7) ta (D9)		Secondary In Surface S Drainage Dry Seas Crayfish I Saturatio Stunted o	dicators (minimum of two required for Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) in Visible on Aerial Imagery (C9) or Stressed Plants (D1) inic Position (D2)
Type: Depth (inch Remarks: IYDROLO Vetland Hydi Primary Indica Surface W High Water Saturation Water Mair Drift Depo Algal Mat Iron Depo Inundation Sparsely N	rology Indicat stors (minimum stater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) ests (B3) or Crust (B4) ests (B5) in Visible on Aeri	ors: of one is re	(87)	Water Aqual True Hydro Oxido Prase Recer Thin	r-Stained Lea tic Fauna (B1 Aquatic Plant ogen Sulfide (red Rhizosph ince of Reduc ht Iron Reduc Muck Surface e or Well Dat	s (B14) Odor (C1) eres on Living to the Iron (C4) ction in Tilled Se (C7) ta (D9)		Secondary In Surface S Drainage Dry Seas Crayfish I Saturatio Stunted o	dicators (minimum of two required for Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) in Visible on Aerial Imagery (C9) or Stressed Plants (D1) inic Position (D2)
Type: Depth (inch Remarks: IYDROLO Vetland Hydi Primary Indica Surface W High Wate Saturation Water Man Sediment Drift Depc Aigal Mat Inundation Sparsely N Field Observe	Inces): Inces	ors: of one is re ial Imagery ave Surface	(87)	Water Aqual True Hydro Oxidio Prase Recer Thin Gaug	r-Stained Lea tic Fauna (B1 Aquatic Plant ogen Sulfide (red Rhizosph ince of Reduc ht Iron Reduc Muck Surface e or Well Dat	s (B14) Odor (C1) eres on Living to the Iron (C4) ction in Tilled Se (C7) ta (D9)		Secondary In Surface S Drainage Dry Seas Crayfish I Saturatio Stunted o	dicators (minimum of two required for Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) in Visible on Aerial Imagery (C9) or Stressed Plants (D1) inic Position (D2)
Type: Depth (inch Remarks: IYDROLO Wetland Hydi Primary Indica Surface W High Water Mai Sediment Drift Depo Aigal Mat Iron Depo Inundation Sparsely N Field Observ. Surface Water	rology Indicat stors (minimum stater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) ests (B3) or Crust (B4) ests (B5) in Visible on Aeri Vegetated Conce ations:	ors: of one is re	(B7) (B9)	Water Aquat Aquat True Hydro Oxidic Prasse Recer Thin Gaug Other	r-Stained Lea tic Fauna (B1 Aquatic Plant ogen Sulfide (zed Rhizosph ince of Reduc nt Iron Reduc Muck Surface e or Well Dat r (Explain in f	3) Is (B14) Odor (C1) eres on Living: ted Iron (C4) ction in Tilled S a (C7) ta (D9) Remarks)	ods (C6)	Secondary In Surface S Drainage Dry Seass Crayfish I Saturatio Sturted o Geomorp FAC-Neut	dicators (minimum of two required to Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) in Visible on Aerial Imagery (C9) or Stressed Plants (D1) inic Position (D2) tral Test (D5)
Depth (inch Remarks: HYDROLO Wetland Hydr Primary Indica Surface W High Water Mar Sediment Drift Depc A'gal Mat Iron Depo Inundation Sparsely N Field Observe Surface Water Table P Saturation Pre-	or Crust (B4) solits (B5) or Crust (B4) solits (B5) or Crust (B4) solits (B5) or Vegetated Conce ations: Present?	ors: of one is re ial Imagery ave Surface Yes	(B7) (BS) No •	Water Aquat True Hydre Oxidis Prass Recer Thin Gaug Other	r-Stained Lea tic Fauna (B1 Aquatic Plant ogen Sulfide (red Rhizosph nice of Reduc Muck Surface e or Well Dat of (Explain in I oth (inches):	3) Is (B14) Odor (C1) eres on Living: ted Iron (C4) ction in Tilled S a (C7) ta (D9) Remarks)	ods (C6)	Secondary In Surface S Drainage Dry Seas Crayfish I Saturatio Stunted o	dicators (minimum of two required to Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) in Visible on Aerial Imagery (C9) or Stressed Plants (D1) inic Position (D2) tral Test (D5)
Type:	Inces): Inces): Inces ors: of one is re ial Imagery ave Surface Yes Yes Yes Yes Yes Yes	(B7) (B\$) No • No •	Water Aquat Aquat True Hydre Oxide Prass Recer Thin Gaug Other	r-Stained Lea tic Fauna (B1 Aquatic Planta ogen Sulfide trend Rhizosph nice of Reduc Muck Surface e or Well Data oth (inches): oth (inches);	3) Is (B14) Odor (C1) eres on Living: ced Iron (C4) cttion in Tilled S a (C7) ta (D9) Remarks)	ods (C6)	Secondary In Surface S Drainage Dry Seass Crayfish I Saturatio Sturted o Geomorp FAC-Neut	dicators (minimum of two required to Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) in Visible on Aerial Imagery (C9) or Stressed Plants (D1) inic Position (D2) tral Test (D5)	
Type:	Inces): Inces): Inces ors: of one is re ial Imagery ave Surface Yes Yes Yes Yes Yes Yes	(B7) (B\$) No • No •	Water Aquat Aquat True Hydre Oxide Prass Recer Thin Gaug Other	r-Stained Lea tic Fauna (B1 Aquatic Planta ogen Sulfide trend Rhizosph nice of Reduc Muck Surface e or Well Data oth (inches): oth (inches);	3) Is (B14) Odor (C1) eres on Living: ced Iron (C4) cttion in Tilled S a (C7) ta (D9) Remarks)	ods (C6)	Secondary In Surface S Drainage Dry Sease Crayfish t Sturted G Geomorp FAC-Neut	dicators (minimum of two required to Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) in Visible on Aerial Imagery (C9) or Stressed Plants (D1) inic Position (D2) tral Test (D5)	

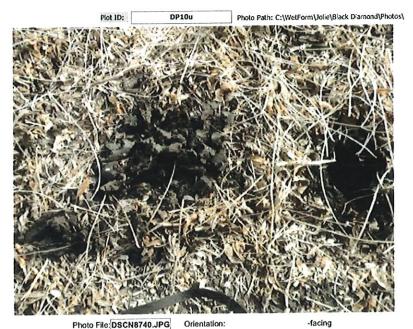


Photo File: DSCN8740.JPG Orientation:

LatLong or UTM: Long/Easting: Lat/Northing:

Description:



Photo File: DSCN8742.JPG Orientation: -facing
Lat/Long or UTM: Long/Easting: Lat/Northing:
Description:

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and a second		No	Photo
Photo File: DSCN8741.JPG Orientation:	-facing	Photo File: None.bmp	Orientation: -facing
,	at/Northing:	Long/Easting:	Lat/Northing:
Description:	avivoruming.	Description:	

Photo File: None.bmp Long/Easting:	Orientation: Lat/Northing:	-facing	Photo File: None.bmp Long/Easting:	Orientation: Lat/Northing:	-facing
Description:			Description:		

oject/Site: Black Diamond			Cit	y/County:	Christian	Sampling Date: 08-Nov-19
oplicant/Owner: Swift Current					State:	Illinois Sampling Point: DP11w
vestigator(s): ES, JW			15	Section, Tow	inship, Range:	S 5 T 13N R 3W
indform (hillslope, terrace, etc.): Low						oncave, convex, none): concave
- proper mo				Long:	-89.453425	Datum: WGS 84
ope: 3,0% / 1.7 ° Lat.:				Cong.:	-89.453425	
Map Unit Name: Osco silt loam	, 2 to 5 percer	nt slopes	. Vac	O No O	/// 22 21	NWI classification: PEMIC
e climatic/hydrologic conditions on th			ar? ICS			(2) (
re Vegetation, Soil	, or Hydrolog	Jy sign	nificantly dis	turbed?		rma circumstances present?
e Vegetation 🔲 , Soil 🗌	, or Hydrolog	y nat	urally proble	smatic?	(If need	ded, explain any answers in Remarks.)
UMMARY OF FINDINGS -	Attach site	map show	ing sam	oling poi	int location	ns, transects, important features, etc.
tydrophytic Vegetation Present?		No O				
tydric Soil Present?		No O			he Sampled A	
- 10 march	Yes ①			With	nin a Wetiand	Yes © No C
Wetland Hydrology Present?	163					
Remarks:						
				Danisas		
VEGETATION - Use sci	entific nam	ies or plant		Dominan Species	?	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft)		% Cover		t. Indicator Status	
Populus de toides			5	20.0%	6 FAC	Number of Dominant Species That are OBL, FACW, or FAC:3(A)
Acer saccharinum			20	₹ 80.0%	6 FACW	Total Number of Dominant
3.			0	0.0%		Species Across All Strata: 5 (B)
4			0	0.0%		Descent of deminant Consider
5			0	0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)
Olat size.	1 5ft	v.	25	= Total Co	over	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:			15	▼ 75.0%	6 UPL	Total % Cover of: Multiply by:
Elaeagnus umbellata Gleditsia triacanthos			5	✓ 25.0%		OBL species 0 x 1 = 0
3.			0	0.0%		FACW species 121 x 2 = 242
4.			0_	0.0%		FAC species 5 x 3 = 15
5.			0	0.0%		FACU species 5 x 4 = 20
Herb Stratum (Plot size: 5ft)		20	= Total Co	over	UPL species 15 x 5 = 75
1 Spartina pectinata			1	1.0%	FACW	Column Totals: 146 (A) 352 (B)
2. Phalaris arund nacea			100	99.09	FACW	Prevalence Index = B/A = 2.411
3.			0	0.0%		Hydrophytic Vegetation Indicators:
4.			0	0.0%		1 - Rapid Test for Hydrologic Vegetation
5				0.0%		2 - Dominance Test is > 50%
6			0	0.0%		3 - Prevalence Index is ≤3.0 ¹
7. 8.			0	0.0%		4 - Morphological Adaptations 1 (Provide supporting
9.			0	0.0%		data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain)
10.			0	0.09	6	
Woody Vine Stratum (Plot size: 1	Sft)	101	= Total C	over	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 1	J.(1	0	0.0%	6	-
			0	0.0%		Hydrophytic
1						Vegetation Yes No No
			U	= Total C	OVE	
1			0	= Total C	over	Tresenti
12.	ers here or on	a separate sh		= Total C	over	Treatment
1	ers here or on	a separate sh		= Total C	over	Tiosant .
12.	ers here or on	a separate sh		= Total C	over	TIOS.

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					Dade		ires			
(inches)	Color (m	Matrix noist)	%	Color (% Featu	Type 1	Loc2	Texture	Remarks
0-6	10YR	3/1	100						Silty Clay Loam	
6-16	10YR	3/1	93	7.5YR	3/3	_ 5	C	PL	Silty Clay Loam	
+mcttle				10YR	5/1	2	D	М	Silty Clay Loam	
Stratified L 2 cm Muck	ndicators: 1) edon (A2) (A3) Sulfide (A4) ayers (A5)			Sarri	ndy Gleyed I ndy Redox (pped Matrio my Mucky I nmy Gleyed oleted Matri	Matrix (S SS) x (S6) Mineral (i Matrix (F ix (F3)	4) F1) F2)	ains.	ALocation: PL=Pore Lining. Indicators for Problem Coast Prairie Redox (Dark Surface (57) Iron Manganese Mass Very Shallow Dark Su Other (Explain in Ren	natic Hydric Soils ³ : A16) ses (F12) urface (TF12)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Huck Mineral (S1) 5 cm Mucky Peat or Peat (S3)				De	fox Dark Su pleted Dark dox Depress	Surface	(F7)		³ Indicators of hydrophy wetland hydrology unless disturbed of	must be present,
Restrictive La	yer (if obse	erved):								
Type: Depth (inch Remarks:	nes):								Hydric Soil Present?	Yes [®] No ○
Type: Depth (inch									Hydric Soil Present?	Yes [®] No ○
Type: Depth (inch Remarks:	GY									
Type:	GY rology India	cators:	s required;	check all th	nat acosy)					Yes No ocs (minimum of two required
Type:	GY rology India lors (minimu	cators:	s required:	-	nat apply) Water-Stainw	ed Leave	s (B9)		Secondary Indicat	ors (minimum of two required racks (86)
Type: Depth (inch Remarks: HYDROLO Wetland Hyd. Primary Indica Surface W	GY rology India lors (minimu	cators: um of one	is required;	□,			s (89)		Secondary Indicat Surface Soil O Drainage Patte	ors (minimum of two required racks (86) erns (810)
Type: Depth (inch Remarks: HYDROLO Wetland Hyd. Primary Indica Surface W	GY rology Indicators (minimu fater (A1) er Table (A2)	cators: um of one	is required;		Water-Stain	na (813)			Secondary Indicat Surface Soil Co Drainage Patt Day Season W	ors (minimum of two required lacks (86) erns (810) ater Table (C2)
Type: Depth (inch Remarks: HYDROLO Wetland Hyd. Primary Indica Surface W High Wate Saturation	GY rology India lors (minimu rater (A1) er Table (A2)	cators: um of one	is required;		Water-Stain Nquatic Faur	na (813) c Plants ((814)		Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro	ors (minimum of two required acks (86) arns (810) ater Table (C2) ws (C8)
Type: Depth (inch Remarks: HYDROLO Wetland Hydi Primary Indica Surface W High Wate Saturation Water Mai	GY rology India tors (minimu ater (A1) r (A3) rks (B1)	cators: m. of one	is required;		Nater-Stain Aquatic Fau True Aquatic Hydrogen Si	na (B13) c Plants (ulfide Od	(814)	Roots (C3)	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro	ors (minimum of two required lacks (86) erns (810) ater Table (C2)
Type: Depth (inch Remarks: HYDROLO Wetland Hyd. Primary Indica Surface W High Wate Saturation Water Mai Sediment	GY rology India tors (minimu fater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)	cators: m. of one	is required;		Nater-Stain Aquatic Fau True Aquatic Hydrogen Si	na (B13) c Plants (ulfide Od zosphere	(814) for (C1) es on Living	Roots (C3)	Secondary Indicat Surface Sol Ci Drainage Patt Dry Season W Crayfish Burro Saturation Vis	ors (minimum of two required acks (86) arns (810) ater Table (C2) ws (C8)
Type: Depth (inch Remarks: HYDROLO Wetland Hydh Primary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo	GY rology India tors (minimu fater (A1) pr (A3) pr (A3) pr (A3) pr (A3) pr (A3) pr (A3)	cators: m of one	is required;		Water-Staine Aquatic Faul Frue Aquatic Hydrogen Si Oxidized Rhi Presence of	na (B13) c Plants (ulfide Od zosphere Reduced	(B14) for (C1) es on Living f fron (C4)		Secondary Indicat Surface Sol Ci Drainage Patt Dry Season W Crayfish Burro Saturation Vis	ots (minimum of two required acks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (O1)
Type:	GY rology India tors (minimu ater (A1) er Table (A2) er (A5) e	cators: m of one	is required;		Water-Stains Viquatic Faur Frue Aquatic Hydrogen Stains Oxidized Rh Presence of Recent Iron	na (B13) c Plants (ulfide Od izosphere Reduced Reductio	(B14) for (C1) es on Living f fron (C4) on in Tilled S		Secondary Indicat Surface Soil Ci Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str	ors (minimum of two required lacks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2)
Type: Depth (inch Remarks: HYDROLO Wetland Hyd: Primary Indica Surface W High Water Mar Sediment Drift Depc Algal Mat Iron Depo	GY rology India tors (minimu ater (A1) at Table (A2) (A3) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	cators: m. of one			Water-Stain Nquatic Faur Frue Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (ulfide Od izosphere Reduced Reductio Surface (C	(814) for (C1) es on Living if Iron (C4) on in Tilled :		Secondary Indicat Surface Sol Co Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P	ors (minimum of two required lacks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2)
Type: Depth (inch Remarks: HYDROLO Wetland Hyd. Primary Indica Surface W High Wate Saturation Weter Mai Sediment Drift Depo Aigail Mat Iron Depo Inundatio	GY rology India tors (minimu ater (A1) er Table (A2) er (A5) e	cators: um_of one	ger y (87)		Water-Stains Viquatic Faur Frue Aquatic Hydrogen Stains Oxidized Rh Presence of Recent Iron	na (813) c Plants (uifide Od izosphere Reduced Reductio Surface (C	(B14) for (C1) es on Living firon (C4) on in Tilled 5 C7) (D9)		Secondary Indicat Surface Sol Co Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P	ors (minimum of two required lacks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2)
Type: Depth (inch Remarks: HYDROLO Wetland Hyd. Primary Indica Surface W High Wate Saturation Weter Mai Sediment Derift Depo Algal Mat Iron Depo Inundatio Sparsely N	GY rology India tors (minimu ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on A Vegetated Co	cators: um_of one	ger y (87)		Water-Stain Aquatic Faur Frue Aquatic Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W	na (813) c Plants (uifide Od izosphere Reduced Reductio Surface (C	(B14) for (C1) es on Living firon (C4) on in Tilled 5 C7) (D9)		Secondary Indicat Surface Sol Co Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P	ors (minimum of two required lacks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2)
Type: Depth (inch Remarks: HYDROLO Wetland Hyd. Primary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depc Aigal Mat Iron Depo Inundation Sparsely V Field Observ	GY rology India tors (minimu (ater (A1) er Table (A2) er (A3) rks (B1) Deposits (B2) sor Crust (B4) sits (B5) n Visible on A Vegetated Co	cators: im of one ?)) Aerial Imag	ger y (87)		Water-Stain Aquatic Faur Frue Aquatic Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W	na (813) c Piants (c Piants (cristing Od cristing Od	(B14) for (C1) es on Living firon (C4) on in Tilled 5 C7) (D9)		Secondary Indicat Surface Sol Co Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P	ors (minimum of two required lacks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2)
Type: Depth (inch Remarks: HYDROLO Wetland Hydi Primary Indica Surface W High Water Mai Sediment Drift Depo Aigal Mat Iron Depo Iron Depo Iron Depo Sparsely \ Field Observ Surface Water	GY rology India later (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sor Crust (B4) sits (B5) n Visible on A Vegetated Co ations: Present?	cators: im of one ?)) Aerial Imag Yes	gery (87) face (88)		Water-Stain Aquatic Faur Frue Aquatic Hydrogen Si Dxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Depth (Inc.)	na (B13) c Plants (uifide Od izosphere Reduced Reductio Gurface (C ell Data ain in Red ches):	(B14) for (C1) es on Living firon (C4) on in Tilled 5 C7) (D9)	Sc3s (C6)	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P FAC-Neutral 1	ors (minimum of two required racks (86) erns (810) ater Table (C2) ws (C8) bible on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)
Type:	rology India tors (minimus tater (A1) er Table (A2) frks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on A Jegetated Co ations: Present?	cators: im of one ?)) Aerial Imag Yes	gery (87) face (88)		Water-Stain Aquatic Faur Frue Aquatic Hydrogen Si Dixidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Exp'a	na (B13) c Plants (urifide Od zosphere Reduced Reductio Surface ('ell Data i ches):	(B14) for (C1) es on Living firon (C4) on in Tilled 5 C7) (D9)	Sc3s (C6)	Secondary Indicat Surface Sol Co Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P	ors (minimum of two required lacks (86) erns (810) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) ostion (D2)
Type: Depth (inch Remarks: HYDROLO Wetland Hydi Primary Indica Surface W High Water Saturation Water Mai Sediment Drift Depc Aigal Mat Iron Depc Iron Depc Iron Depc Sparsely N Field Observ Surface Water Water Table P Saturation Pre Surface Water	GY rology India later (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on A Vegetated Co ations: Present? sent?	cators: Im of one Aerial Imagencave Surrives Yes Yes Yes	gery (B7) face (B8) No (Water-Staink Viquatic Faui Frue Aquatic Frue Aquatic Frue Aquatic Presence of Recent Iron Thin Muck S Gauge or W Depth (inc Depth (inc Depth (inc)	na (B13) c Plants (urifide Od zosphere Reduced Reductio Surface ('eil Data i ches): thes):	(B14) for (C1) as on Living I Iron (C4) on in Tilled 5 (C7) (D9) marks)	We	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P FAC-Neutral 1	ors (minimum of two required racks (86) erns (810) ater Table (C2) ws (C8) bible on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)
Type: Depth (inch Remarks: HYDROLO Wetland Hydi Primary Indica Surface W High Water Saturation Water Mai Sediment Drift Depc Aigal Mat Iron Depc Iron Depc Iron Depc Sparsely N Field Observ Surface Water Water Table P Saturation Pre Surface Water	GY rology India later (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on A Vegetated Co ations: Present? sent?	cators: Im of one Aerial Imagencave Surrives Yes Yes Yes	gery (B7) face (B8) No (Water-Staink Viquatic Faui Frue Aquatic Frue Aquatic Frue Aquatic Presence of Recent Iron Thin Muck S Gauge or W Depth (inc Depth (inc Depth (inc)	na (B13) c Plants (urifide Od zosphere Reduced Reductio Surface ('eil Data i ches): thes):	(B14) for (C1) as on Living I Iron (C4) on in Tilled 5 (C7) (D9) marks)	We	Secondary Indicat Surface Sol Cl Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Ceomorphic P FAC-Neutral 7	ors (minimum of two required racks (86) erns (810) ater Table (C2) ws (C8) bible on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)



Photo File: DSCN8756.JPG Orientation: Lat/Long or UTM : Long/Easting:

-facing

Description:

Lat/Northing:

Photo File: DSCN8759.JPG Orientation:

-facing

Lat/Long or UTM: Long/Easting:

Lat/Northing:

Description:

	Plot ID	DI	P11W		
Photo File: DSCN8762.JPG Long/Easting:	Orientation: LabNorthing:	-facing	Photo File: DSCN8757 Long/Eastin	Lat/Northing:	facing
Description:			Description:		
		i			

Photo File: None.b	mp	Orientation:		-facing	Photo File: None.bmp	Orientation:	-facing
Long/Ea	asting:		Lat/Northing:		Long/Easting:	Lat/Northing:	
Description:					Description:		

			Gt	y/County:	Christian	Sampling Date: 08-Nov-19
oject/Site: Black Diamond oplicant/Owner: Swift Current					Sta	te: Illinois Sampling Point: DP11u
vestigator(s): ES, JW				Section, To	waship, Ran	
andform (hillslope, terrace, etc.): Shou						f (concave, convex, none): flat
-				1		D. L. W.CC 94
ope: 2.0% / 1.1 ° Lat.:				Long.:	-89.4532	
Map Unit Name: Osco silt loam,	2 to 5 perce	ent slopes	V (a O		NWI class feation: None
e climatic/hydrologic conditions on the					(If no,	explain in Remarks.) Wheney Groundsaccost account? Yes No O
re Vegetation , Soil	, or Hydrolog	gy sig	gnificantly dis	turbed?	Are	"Normal Circumstances" present? Yes • No ·
e Vegetation , Soil	, or Hydrolog	gy na	iturally proble	ematic?	(If n	eeded, explain any answers in Remarks.)
UMMARY OF FINDINGS - A	ttach site	map show	ing sam	pling po	int locat	ions, transects, important features, etc.
tydrophytic Vegetation Present?	Yes O	No ⊙				
tydric Soil Present?		No 💿		Ist	he Sample hin a Wetla	d Area and? Yes O No 💿
Wetland Hydrology Present?	Yes O	No 💿		l wit	mii a weu	res O No e
Remarks:						
VEGETATION - Use scie	entific nam	nes of plan	ts.	Domina		
	80		Absolute		t. Indicat	
.Tree Stratum (Plot size: 30ft)		% Cover	-3		Number of Dominant Species
Acer saccharinum			15	75.00		That are OBL, FACW, or FAC:2 (A)
2. Populus deltoides			0	25.0		Total Number of Dominant
3. 4.			. 0	0.09		Species Across All Strata:6(B)
5.			0	0.09		Percent of dominant Species That Are OBL FACW or FAC: 33.3% (A/B)
J			20	= Total C		That Are OBL, FACW, or FAC: 33.3% (A/B)
Sapling/Shrub Stratum (Plot size: 1	Sít)				Prevalence Index worksheet:
1. Elaeagnus umbellata			10	₹ 66.7	% UPL	Total % Cover of: Multiply by:
2. Gleditsia triacanthos			5	✓ 33.3	FACU	OBL species 0 x 1 = 0
3.			0	0.09	6	FACW species 30 x 2 = 60
4			0	0.09		FAC species 5 x 3 = 15
5,			0_	0.09		FACU species 135 x 4 = 540
Herb Stratum (Plot size: 5ft)		15	= Total C	over	UPL species 20 x 5 = 100
1. Solidago altissima			40	✓ 25.8	% FACU	Column Totals: 190 (A) 715 (B)
2. Cornus alba			15	9.79	6 FACW	Prevalence Index = B/A = 3.763
3. Rubus occidentalis			10	6.59		Hydrophytic Vegetation Indicators:
4. Schedonorus arundinaceus			80_	51.6		1 - Rapid Test for Hydrologic Vegetation
			10	6.59	and the same of th	2 - Dominance Test is > 50%
6.			0	0.00		3 - Prevalence Index is ≤3.0 1
7				0.09		4 - Morphological Adaptations 1 (Provide supporting
8. 9.			0	0.0		data in Remarks or on a separate sheet)
9. 10.			0	0.0		Problematic Hydrophytic Vegetation ¹ (Explain)
10.			155	= Total 0		1 Indicators of hydric soil and wetland hydrology must
	ft)		_		be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 15			0	0.0		Hydrophytic
1			_		758	
to the second se			<u>0</u>	= lotal 0		Vegetation Yes No (*)

						the indi	cator or co	nfirm the		
rofile Descri	iption: (Des	cribe to t	he depth i	needed to					e absence of indicators.)	
Depth		Matrix_		Calant		ox Featu	Type 1	Loc2	Texture	Remarks
(inches)	Color (r		%	Color (moist)	%	Type	LOC-	Sity Clay Loam	Itematis
0-8	10YR	3/2	85						Sity Clay Loam	
+mottle	10YR	5/4	15							
8-16	10YR	3/2	83	7.5YR	3/4	2	С	PL	Sity Clay Loam	
+mottle	10YR	5/4	15						Sity Clay Loam	
									2Location: PL=Pore Lining, M=	Matrix
Type: C=Cond		=Depletion	, RM=Redu	ced Matrix,	CS=Covere	d or Coal	en Sand Gr	ains.		
Hydric Soil I				70.	1 (11	(tak-i-, 10	**		Indicators for Problema	tic Hydric Soils 3:
Histosol (/				-	ndy Gleyed I		4)		Coast Prairie Redox (A1	5)
	edon (A2)			-	ndy Redox (Dark Surface (S7)	
Black Hist					pped Matri				Iron Manganese Masses	(F12)
Hydrogen				Loa	my Mucky I	dineral (I	F1)		Very Shallow Dark Surfa	
Stratified				Loa	my Gleyed	Matrix (F	2)		Other (Explain in Remai	
2 cm Muc				De	pleted Matri	x (F3)			_ Other (explain in Kenta	,
	Below Dark S		1)	Rec	dox Dark Su	rface (F6)			
and a	k Surface (A1			De	pleted Dark	Surface	(F7)		3 Indicators of hydrophytic	vegetation and
Sandy Mu	ick Mineral (S	1)		Rec	dox Depress	ions (F8))		wetland hydrology mu	st be present,
5 cm Muc	ky Peat or Pe	at (53)							un'ess disturbed or p	problematic.
Restrictive L	ayer (if obs	erved):								
Type:										0 0
									Undeic Cail Deceant? \	oc () No (0)
Depth (inc Remarks:	hes):								Hydric Soil Present?	'es ○ No ⑨
Remarks:									Hydric Soil Present?	es O No ®
Remarks:	OGY								Hydric Soil Present?	es O No O
Remarks:	OGY Grology Indi		ie required	chack all th	out anniv)					
Remarks: HYDROLO Wetland Hyd Erimary Indic	OGY drology Indi ators (minim		is required:	-						(minimum of two require
Remarks: HYDROLO Wetland Hyd Erimary Indic	OGY drology Indi ators (minim Vater (A1)	um_of one	is required:		Vater-Staine		s (B9)		Secondary Indicators Surface Soil Crac	.fmirimum of twa reduce ks (86)
Remarks: HYDROLO Wetland Hyd Erimary Indic	OGY drology Indi ators (minim	um_of one	is required:		Vater-Staine Vquatic Faur	na (B13)			Secondary Indicators Surface Soil Crac Drainage Pattern	.(minimum of two require ks (B6) s (B10)
Remarks: HYDROLO Wetland Hyd Erimary Indic	OGY Irology Indi ators (minimi Vater (A1) er Table (A2)	um_of one	is required:		Vater-Staine Vquatic Faur True Aquatic	na (813) : Plants (814)		Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate	,/minimum of two require ks (B6) s (B10) r Table (C2)
HYDROLO Wetland Hyd Rrimary Indic Surface V	OGY frology Indi ators (minimi Vater (A1) er Table (A2) n (A3)	um_of one	is required:		Vater-Staine Aquatic Faur True Aquatic Hydrogen Sc	na (B13) : Plants (uffide Od:	814) or (C1)		Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows	.(minimum of two require ks (86) 5 (810) r Table (C2) (C8)
HYDROLC Wetland Hyd Surface V High Wat Saturatio	OGY frology Indi ators (minimi Vater (A1) er Table (A2) n (A3) arks (B1)	um_of one	is reaured:		Vater-Staind Aquatic Faur True Aquatic Hydrogen Sc Oxidized Rhi	na (B13) : Plants (uffide Ode zosphere	B14) or (C1) is on Living	Reots (C3)	Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible	.(minimum of two require ks (86) 5 (810) r Table (C2) (C8) on Aerial Imagery (C9)
Remarks: HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma	OGY frology Indi ators (minimi Vater (A1) er Table (A2) n (A3) arks (B1)	um_of one	is required:		Vater-Staine Aquatic Faur True Aquatic Hydrogen Sc	na (B13) : Plants (uffide Ode zosphere	B14) or (C1) is on Living	Reots (C3)	Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress	fminimum of two require ks (86) s (810) r Table (C2) (C8) e on Aerial Imagery (C9) ied Plants (D1)
AYDROLO Wetland Hyc Erimary Indic Surface V High Wat Saturat o Water Me Sed ment Drift Dep	OGY frology India ators (minimum Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2)	um_of one	is required:		Water-Staine Aquatic Faur True Aquatic Hydrogen Sc Oxidized Rhi Presence of	na (B13) : Plants (uifide Odi zosphere Reduced	B14) or (C1) is on Living		Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi	fminimum of two require is (86) s (810) r Table (C2) (C8) on Aerial Imagery (C9) is of Aerial (D1) is of (D2)
AYDROLO Wetland Hyc Erimary Indic Surface V High Wat Saturat o Water Me Sed ment Drift Dep	OGY Irology India ators (minimi vater (A1) er Table (A2) rrks (B1) Deposits (B2 csits (B3) er Crust (B4	um_of one	is required:		Water-Staine Aquatic Faur True Aquatic Hydrogen Sc Oxidized Rhi Presence of	na (B13) : Plants (uffide Od- zosphere Reduced Reductio	B14) or (C1) es on Living Iron (C4) en in Tibed S		Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress	fminimum of two require is (86) s (810) r Table (C2) (C8) on Aerial Imagery (C9) is of Aerial (D1) is of (D2)
HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Sed ment Drift Dep Algal Mat Iron Dep	OGY Irology India ators (minimi vater (A1) er Table (A2) rrks (B1) Deposits (B2 csits (B3) er Crust (B4	um_of one			Vater-Stains Vajuatic Faur Frue Aquatic Hydrogen St Dxidized Rhi Presence of Recent Iron	na (B13) : Plants (uifide Od- zosphere Reduced Reductio urface (C	B14) or (C1) is on Living Iron (C4) in in TiBed S		Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi	fminimum of two require ks (86) s (810) r Table (C2) (C8) on Aerial Imagery (C9) sed Plants (D1) then (D2)
HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma Sed ment Drift Dep Algal Mat Iron Dep Inundation	Jogy Indiators (minimulators (um_of one 2) Aerial Ima	gery (87)		Vater-Stains Aquatic Faur Frue Aquatic Hydrogen Sc Oxidized Rhi Presence of Recent Iron Thin Muck S	na (B13) : Plants (uifide Od- zosphere Reduced Reductio urface (C ell Data (B14) or (C1) is on Living Iron (C4) in in Tiled S (7) D9)		Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi	fminimum of two require is (86) s (810) r Table (C2) (C8) on Aerial Imagery (C9) is of Aerial (D1) is of (D2)
HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturat o Water Ma Sed ment Drift Dep Inundatic Sparsely	OGY drology Indi ators (minim Vater (A1) er Table (A2) n (A3) it Deposits (B3) of Crust (B4) osts (B5) on Visible on Vegetated Co	um_of one 2) Aerial Ima	gery (87) face (83)		Vater-Stains Aquatic Faur Frue Aquatic Hydrogen Sc Dxidized Rhi Presence of Recent Iron Thin Muck S Gauge or Wi	na (B13) : Plants (uifide Od- zosphere Reduced Reductio urface (C ell Data (B14) or (C1) is on Living Iron (C4) in in Tiled S (7) D9)		Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi	fminimum of two require is (86) s (810) r Table (C2) (C8) on Aerial Imagery (C9) is of Aerial (D1) is of (D2)
HYDROLC Wetland Hyc Primary Indic Surface V High Wat Saturat o Vater Ma Sed ment Drift Dep Algal Mat Iron Dep Inundatic Sparsely	OGY frology Indi ators (minimu Vater (A1) er Table (A2) n (A3) rks (B1) i Deposits (B3) er or Crust (B4 osts (B5) an Visible on a Vegetated Co vations:	um.of one 2) Aerial Ima	gery (87)		Vater-Stains Aquatic Faur Frue Aquatic Hydrogen Sc Dxidized Rhi Presence of Recent Iron Thin Muck S Gauge or Wi	na (B13): Plants (Plants (Pl	B14) or (C1) is on Living Iron (C4) in in Tiled S (7) D9)		Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi	fminimum of two require is (86) s (810) r Table (C2) (C8) on Aerial Imagery (C9) is of Aerial (D1) is of (D2)
Aydal Mat Drift Dep Inundatic Sparsely Field Observ Surface Water Age Aydal Mat Sparsely	orks (Bi) or Table (A2) orks (B1) or Crust (B4) or Crust (um_of one 2)) Aerial Ima oncave Sur	gery (87) face (88)		Vater-Stainu Aquatic Faur Aquatic Faur Aquatic Faur Aquatic Faur Advance Aguatic Advance of Recent Iron Aguatic Model Aguatic Agu	na (B13): Plants (Uffide Odi- zosphere Reduced Reduction urface (C ell Data (nin in Ren hes):	B14) or (C1) is on Living Iron (C4) in in Tiled S (7) D9)		Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi	(minimum of two require ks (B6) of (B10) of Table (C2) (C8) con Aerial Imagery (C9) ed Plants (D1) tion (D2) (D5)
Wetland Hyder Surface Ville Sed ment Sed ment Iron Dep Inundatic Sparsely Field Observ Surface Water Table 6	or Visible on Visible	yes Yes	gery (87) face (88)		Vater-Stainu Aquatic Faur Lifter Aquatic Aquatic Faur Lifter Aquatic Lift	na (B13): Plants (plants (plants): Plants (plan	B14) or (C1) is on Living Iron (C4) in in Tiled S (7) D9)	oris (C6)	Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi	fminimum of two require ks (86) s (810) r Table (C2) (C8) on Aerial Imagery (C9) sed Plants (D1) then (D2)
HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturat o Water Ma Sed ment Drift Dep Inundatio Sparsely Field Observ Surface Water Water Table f Saturation ran	Jogy Indiators (minimulators (yes Yes Yes Yes	gery (B7) face (B8)		Vater-Staini Vquatic Faur True Aquatic Hydrogen Sc Dxidized Rhi Presence of Recent Iron Thin Muck S Sauge or W Depth (inc Depth (inc Depth (inc	na (B13): Plants (pl	B14) or (C1) is on Living Iron (C4) in in Tilled S (7) D9) marks)	wel	Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Pos FAC-Neutral Test	(minimum of two require is (B6) s (B10) r Table (C2) (C8) con Aerial Imagery (C9) ed Plants (D1) ion (D2) (D5)
HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturat o Water Ma Sed ment Drift Dep Inundatio Sparsely Field Observ Surface Water Water Table f Saturation ran	Jogy Indiators (minimulators (yes Yes Yes Yes	gery (B7) face (B8)		Vater-Staini Vquatic Faur True Aquatic Hydrogen Sc Dxidized Rhi Presence of Recent Iron Thin Muck S Sauge or W Depth (inc Depth (inc Depth (inc	na (B13): Plants (pl	B14) or (C1) is on Living Iron (C4) in in Tilled S (7) D9) marks)	wel	Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi FAC-Neutral Test	(minimum of two require ks (B6) of (B10) of Table (C2) (C8) con Aerial Imagery (C9) ed Plants (D1) tion (D2) (D5)
A'gal Mate Iron Dep Inundation Sparsely Field Observ Surface Water Mate Mate Mate Mate Mate Mate Mate Mate	Jogy Indiators (minimulators (yes Yes Yes Yes	gery (B7) face (B8)		Vater-Staini Vquatic Faur True Aquatic Hydrogen Sc Dxidized Rhi Presence of Recent Iron Thin Muck S Sauge or W Depth (inc Depth (inc Depth (inc	na (B13): Plants (pl	B14) or (C1) is on Living Iron (C4) in in Tilled S (7) D9) marks)	wel	Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Pos FAC-Neutral Test	(minimum of two require ks (B6) of (B10) of Table (C2) (C8) con Aerial Imagery (C9) ed Plants (D1) tion (D2) (D5)
HYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturat o Water Ma Sed ment Drift Dep Inundatio Sparsely Field Observ Surface Water Water Table f Saturation ran	Jogy Indiators (minimulators (yes Yes Yes Yes	gery (B7) face (B8)		Vater-Staini Vquatic Faur True Aquatic Hydrogen Sc Dxidized Rhi Presence of Recent Iron Thin Muck S Sauge or W Depth (inc Depth (inc Depth (inc	na (B13): Plants (pl	B14) or (C1) is on Living Iron (C4) in in Tilled S (7) D9) marks)	wel	Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Pos FAC-Neutral Test	(minimum of two require ks (B6) of (B10) of Table (C2) (C8) con Aerial Imagery (C9) ed Plants (D1) tion (D2) (D5)
A'gal Mate Iron Dep Inundation Sparsely Field Observ Surface Water Mate Mate Mate Mate Mate Mate Mate Mate	Jogy Indiators (minimulators (yes Yes Yes Yes	gery (B7) face (B8)		Vater-Staini Vquatic Faur True Aquatic Hydrogen Sc Dxidized Rhi Presence of Recent Iron Thin Muck S Sauge or W Depth (inc Depth (inc Depth (inc	na (B13): Plants (pl	B14) or (C1) is on Living Iron (C4) in in Tilled S (7) D9) marks)	wel	Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Pos FAC-Neutral Test	(minimum of two require ks (B6) of (B10) of Table (C2) (C8) con Aerial Imagery (C9) ed Plants (D1) tion (D2) (D5)
A'gal Mate Iron Dep Inundation Sparsely Field Observ Surface Water Mate Mate Mate Mate Mate Mate Mate Mate	Jogy Indiators (minimulators (yes Yes Yes Yes	gery (B7) face (B8)		Vater-Staini Vquatic Faur True Aquatic Hydrogen Sc Dxidized Rhi Presence of Recent Iron Thin Muck S Sauge or W Depth (inc Depth (inc Depth (inc	na (B13): Plants (pl	B14) or (C1) is on Living Iron (C4) in in Tilled S (7) D9) marks)	wel	Secondary Indicators Surface Soil Crac Drainage Pattern Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Pos FAC-Neutral Test	(minimum of two require ks (B6) is (B10) if Table (C2) (C8) con Aerial Imagery (C9) ed Plants (D1) tion (D2) (D5)



Photo File DSCN8779.JPG Orientation: -facing

Lat/Long or UTM : Long/Easting: Lat/Northing:

Description:



Photo File DSCN8781.JPG Orientation: -facing
LatLong or UTM: Long/Easting: Lat/Northing:

Description:

Project/Site: Black Diamond		Cit	y/County: Chr	istian	Sampling Date: 07-Nov-19
•				State:	Illinois Sampling Point: DP12u
nyestigator(s): ES, JW		9	Section, Township	, Range:	S 8 T 13N R 3W
andform (hills'ope, terrace, etc.): Swa	le				oncave, convex, none): concave
lope: 3.0% / 1.7 ° Lat.:			Long.: -89.	457519	Datum: WGS 84
		nec		10.015	NWI classification: R4SBC
ioil Map Unit Name: <u>Virden silty cla</u> re climatic/hydrologic conditions on th	e este tunical for this time of a	Yes (⊃ No ⊚	(If no, ext	plain in Remarks.)
re Vegetation . , Soil .		gnificantly dis		Are "Nor	rmal Circumstances" present? Yes No
		aturally proble			ded, explain any answers in Remarks.)
,					
SUMMARY OF FINDINGS - A		ving samp	ning point i	осации	ns, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No O		Is the Sa	mpled A	rea
Hydric Soil Present?	Yes O No 💿		within a	Wetland	? Yes ○ No
Wetland Hydrology Present?	Yes No				
Remarks: mapped as NHD flowline and NW	I Riverine, but now grassy	ag. drainag	ge swale		
		8 800 25 			
VEGETATION - Use sci	entific names of plan	its.	Dominant		
		Absolute	Rel.Strat. I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft)	% Cover		Status	Number of Dominant Species
1		. 0	0.0%		That are OBL, FACW, cr FAC:0(A)
2		0	0.0%		Total Number of Dominant Species Across All Strata: 0 (B)
3. 4.	-	0	0.0%		Species Across All Strata: 0 (B)
4. 5.		0	0.0%		Percent of dominant Species That Are ORL EACLY or EACL 0.0% (A/B)
		0	= Total Cover		That Are OBL, FACW, or FAC: 0.0% (A/B)
Sao'ino/Shrub Stratum (Plot size: 1	5ft)			ĺ	Prevalence Index worksheet:
1		_0_	0.0%		Total % Cover of: Multiply by:
			0.0%		OBL species 0 x 1 = 0
3.		0	0.0%		FACW species 0 x 2 = 0 FAC species 0 x 3 = 0
4. 5.		0	0.0%		FACU species 0 x 3 = 0 FACU species 0 x 4 = 0
		0	= Total Cover		UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5ft)		0.0% F	ACW	Column Totals: 0 (A) 0 (B)
1, Phalaris arundinacea		0	0.0%	NCII	
•		0	0.0%		Prevalence Index = B/A = 0.000
4.		0	0.0%		Hydrophytic Vegetation Indicators:
5.		0	0.0%		1 - Rapid Test for Hydrologic Vegetation
6.		0	0.0%		2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0 ¹
7.		0	0.0%		4 - Morphological Adaptations 1 (Provide supporting
8		0	0.0%		data in Remarks or on a separate sheet)
9.		0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
10.		0	0.0%		1 Indicators of hydric soil and wetland hydrology must
_Woody Vine_Stratum_(Plot size: 15	oft)	. 0	= Total Cover		be present, unless disturbed or problematic.
1		0_	0.0%		Hydrophytic
2		. 0	0.0%		Vegetation Van (8) No
		. 0	= Total Cover		Present? Yes CO NO CO
Remarks: (Include photo numbe	ers here or on a separate s	heet.)			
2 Indicator suff	fix = National status or profe	ssional decision	on assigned beca	use Region	nal status not defined by FWS.

US Army Corps of Engineers

Depen	Matrix 0		Redo		Loc2	Text	ure		Remarks
(inches) Color (m 0-16 10YR		6 C	ofor (moist)	% Type	roc-	Silty Clay	ure		Kelliarks
~~~									
ype: C=Concentration, D=	Deoletion, RM	=Reduced N	latrix, CS=Covered	f or Coated Sand G	rains.	² Location: Pl	L=Pore Lining.	M=Matrix.	
lydric Soil Indicators:			•			Indicato	rs for Proble	matic Hydri	c Soils ³ :
Histosol (A1)		. [	Sandy Gleyed I	latrix (S4)		Coast	Prairie Redox	(A16)	
Histic Epipedon (A2)		(	Sandy Redox (S	55)			Surface (S7)	,	
Black Histic (A3)		[	Stripped Matrix	(S6)			langanese Ma	sses (F12)	
Hydrogen Sulfide (A4)		[	Loamy Mucky F	lineral (F1)			Shallow Dark S		١
Stratified Layers (AS)		[	Loamy Gleyed I	Matrix (F2)					,
2 cm Muck (A10)		[	Depleted Matrix	c (F3)		Other	(Explain in Re	marks)	
Depleted Below Dark St		[	Redox Dark Sur	face (F6)					
Thick Dark Surface (A12		[	Depleted Dark	Surface (F7)		3 Indicat	ors of hydropt	ytic vegetatio	on and
Sandy Muck Mineral (SI		[	Redox Depress	ions (F8)		weti	and hydrology	must be pre	sent,
5 cm Mucky Peat or Pea	at (S3)					un	less disturbed	or problemat	ic.
estrictive Layer (if obse	rved):								
Type:								Yes O	No 🍥
							I Drocont?		
Depth (inches):						Hydric Soi	il Present?	res U	NO ®
YDROLOGY			-			Hydric Sol	il Present?	res	No G
Remarks:  IYDROLOGY  Wetland Hydrology Indic		nuired; chec	k all that acoly)						n of two required.
Remarks:  IYDROLOGY  Wetland Hydrology Indic  Primary Indicators (minimu		nuiced; ched		d Leaves (B9)				tors.{minimu	
IYDROLOGY Wetland Hydrology Indic Primary Indicators (minimu  Surface Water (A1)		nuired: ched	Water-Staine	d Leaves (B9)			condary Indica Surface Soil C	tors (minimu	
IYDROLOGY Wetland Hydrology Indic Primary Indicators (minimu  Surface Water (A1)  H.gh Water Table (A2)		nuired; Chec	Water-Staine Aquatic Faun	a (B13)			condary Indica Surface Soil C Drainage Patt	tors (minimus tracks (B6) erns (B10)	n of two required.
IYDROLOGY Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3)		nuired; chec	Water-Staine Aquatic Faun True Aquatic	a (B13) Plants (B14)			condary Indica Surface Soil C Drainage Patt Dry Season V	tors/minimu: racks (E6) erns (B10) /ater Table ((	n of two required.
IYDROLOGY Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	m of one is rec	auiced; Chec	Water-Staine Aquatic Faun True Aquatic Hydrogen Su	a (B13) Plants (B14) fide Odor (C1)	Roots (C3)		condary Indica Surface Soil C Drainage Patt Dry Season V Crayfish Burn	tors.(minimut iracks (B6) erns (B10) dater Table (G	m of two required
IYDROLOGY  Wetland Hydrology Indic Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sed ment Deposits (B2)	m of one is rec	nuiced; Chec	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	a (B13) Plants (B14) lifide Odor (C1) cospheres on Living	Roots (C3)		condary Indica Surface Soil C Drainage Patt Dry Season V Crayfish Burn	tors/minimum racks (B6) erns (B10) /ater Table (C ows (C8) wble on Aeria	m of two required  C2)  I Imagery (C9)
IYDROLOGY  Wetland Hydrology Indic Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sed ment Deposits (B2)  Drift Deposits (B3)	m of one is rec	nuired; chec	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	a (B13) Plants (B14) lifide Odor (C1) cospheres on Living Reduced Iron (C4)		Sec	condary Indica Surface Soil C Drainage Patt Dry Season W Crayfish Burn Saturation Vis Stunted or St	tors.(minimum tracks (B6) erns (B10) later Table (C ows (C8) sible on Aeria ressed Plants	m of two required  C2)  I Imagery (C9)
Remarks:  IYDROLOGY  Wetland Hydrology Indic Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sed ment Deposits (B2)  Drift Deposits (B3)  A'gai Mat or Crust (B4)	m of one is rec	ouired; chec	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F	a (B13) Plants (B14) Ifide Odor (C1) cospheres on Living Reduced Iron (C4) Reduction in Tilled		Sec	condary Indica Surface Soil C Drainage Patt Dry Season V Crayfish Burn Saturation Vis Stunted or St Geomorphic I	tors.(minimum iracks (B6) erns (B10) later Table (G wws (C8) sible on Aeria ressed Plants histori (D2)	m of two required  C2)  I Imagery (C9)
Remarks:  IYDROLOGY  Wetland Hydrology Indic Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sed ment Depos ts (B2)  Drift Deposits (B3)  A'gal Mat or Crust (B4)  Iron Deposits (B5)	m.of one is rec		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron I Thin Muck St	a (B13) Plants (B14) Ifide Odor (C1) Reduced Iron (C4) Reduction in Tilled Irface (C7)		Sec	condary Indica Surface Soil C Drainage Patt Dry Season W Crayfish Burn Saturation Vis Stunted or St	tors.(minimum iracks (B6) erns (B10) later Table (G wws (C8) sible on Aeria ressed Plants histori (D2)	m of two required  C2)  I Imagery (C9)
Wetland Hydrology Indicer Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sed ment Deposits (B2) Drift Deposits (B3) A'gal Mat or Crust (B4)	m.of one is red ) ) ierial Imagery (	(87)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron I Thin Muck St Gauge or We	a (B13) Plants (B14) Ifide Odor (C1) Reduced Iron (C4) Reduction in Tilled Irface (C7)		Sec	condary Indica Surface Soil C Drainage Patt Dry Season V Crayfish Burn Saturation Vis Stunted or St Geomorphic I	tors.(minimum iracks (B6) erns (B10) later Table (G wws (C8) sible on Aeria ressed Plants histori (D2)	m of two required  C2)  I Imagery (C9)
Netland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sed ment Deposits (B2) Drift Deposits (B3) A'gal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Con	m.of one is red ) ) ierial Imagery (	(87)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron I Thin Muck St Gauge or We	a (B13) Plants (B14) Ifide Odor (C1) cospheres on Living Reduced Iron (C4) Reduction in Tilled Irface (C7)		Sec	condary Indica Surface Soil C Drainage Patt Dry Season W Crayfish Burn Saturation Vis Stunted or St Geomorphic I	tors.(minimum iracks (B6) erns (B10) later Table (G wws (C8) sible on Aeria ressed Plants histori (D2)	m of two required  C2)  I Imagery (C9)
Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) A'gal Mat or Crust (B4) Iron Deposits (65) Inundation Visible on A Sparsely Vegetated Con	m.of one is red ) ) serial Imagery ( ncave Surface (	(B7) (B8)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron Thin Muck St Gauge or We Other (Explain	a (B13) Plants (B14) Ifide Odor (C1) rospheres on Living Reduced Iron (C4) Reduction in Tilled urface (C7) Ifl Data (D9) in in Remarks)		Sec	condary Indica Surface Soil C Drainage Patt Dry Season W Crayfish Burn Saturation Vis Stunted or St Geomorphic I	tors.(minimum iracks (B6) erns (B10) later Table (G wws (C8) sible on Aeria ressed Plants histori (D2)	m of two required  C2)  I Imagery (C9)
Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sed ment Deposits (B3) A'gal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Cor	m of one is rec	(B7) (B8) No •	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Hydrogen Su Oxidized Hydrogen Su Oxidized Hydrogen Su Thin Muck St Gauge or We Other (Explain	a (B13) Plants (B14) Ifide Odor (C1) rospheres on Living Reduced Iron (C4) Reduction in Tilled Irface (C7) Ifi Data (D9) In in Remarks)		Sec	condary Indica Surface Soil C Drainage Patt Dry Season W Crayfish Burn Saturation Vis Stunted or St Geomorphic I	tors / minimum racks (B6) erns (B10) /ater Table (( ows (C8) /obs	m of two required  C2)  I Imagery (C9)  (D1)
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Remarks:  IYDROLOGY  Wetland Hydrology Indic  Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  A'gal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on A	m.of one is reconstruction of one is reconst	(B7) (B8) No • No •	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Right Presence of F Recent Iron I Thin Muck St Gauge or We Other (Explain Depth (inch	a (B13) Plants (B14) Ifide Odor (C1) cospheres on Living Reducted Iron (C4) Reduction in Tilled urface (C7) Ifil Data (D9) In in Remarks)  mes):	Sois (C6)	Sec	condary Indica Surface Soil C Drainage Patt Dry Season W Crayfish Burn Saturation Vis Stunted or St Geomorphic F FAC-Neutral I	tors / minimum racks (B6) erns (B10) /ater Table (( ows (C8) /obs	m of two required  C2)  I Imagery (C9)  (D1)
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Photo File: DSCN8716.JPG Orientation: -facing

Lat/Northing: Lat/Northing:

Description:



Photo File: DSCN8713.JPG Orientation: -facing
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Photo File: None.bmp	Orientation:		-facing	Photo File: None.bmp	Orientation:	-facing
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Photograph 1. Stream 1 (S1), facing southeast. S1 drains agriculture fields to Sangchris Lake



Photograph 2. Stream 1 (S1), where it emerges via pipe culvert from underground



Photograph 3. S1 flowing to Sangchris Lake, facing northwest.



Photograph 4. S1 flowing to Sangchris Lake, facing northwest.