

# Appendix J: Wetland Delineation CAP Section 205 Flood Risk Management Study Arcadia, WI

Final Feasibility Study Report with Integrated Environmental Assessment This page intentionally left blank

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# Wetland Delineation Appendix J

# 1. Introduction

A wetland delineation in accordance with the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region—Version 2.0* (U.S. Army Corps of Engineers 2010) was conducted in August and September 2019. Off-site analyses followed by field verification were conducted as is standard practice. Identification and evaluation of other aquatic resources within the project area, such as streams and ponds, were not part of this investigation.

# 1.1. Off-Site Analyses

National Wetland Inventory (NWI) and Wisconsin Wetland Inventory (WWI) mapping of the project area were reviewed (Attachment A). A soils report for the project area was generated using the Web Soil Survey (Attachment B). Aerial photography from 1938, 2005, 2006, 2008, 2010, 2011, 2013, 2015, 2017, 2018 and 2019 was reviewed for wetland signatures and history of land use/alterations. A LiDAR layer and two-foot contour mapping were utilized in conjunction with interpreting presence/absence of wet signatures on aerial photography. A map illustrating the area inundated by the 2-year flood event, generated by the Corps modeling of the project area, was obtained to assist hydrology determinations. This is pertinent as the wetland hydrology technical standard requires inundation, and/or a water table ≤12 inches below the soil surface, for ≥14 consecutive days during the growing season in ≥50% of years (U.S. Army Corps of Engineers 2005 and 2010). The two-year flood elevation addresses the 50% frequency of occurrence by inundation.

# 1.2. Field Verification

Fieldwork was conducted in August and September 2019. Data sheets and photographs were compiled to document observations (Attachments C and D). GPS data were collected for incorporation into GIS to produce maps illustrating the location of data points and delineation of wetland/upland boundaries. Not all areas were field-verified as permission to access some properties was not granted. Off-site analyses and observations from adjacent areas where access had been granted were conducted for areas lacking site access.

Precipitation recorded at the Trempealeau Dam weather station showed that, overall, the period of April through September 2019 was wetter than normal. April was within the normal range (3.74 inches) while May (7.53 inches), June (4.70 inches), July (6.56 inches) and September (6.61 inches) were wetter than normal. Only August was drier than normal (3.05 inches). Antecedent precipitation was characterized by applying the NRCS three month, weighted method using WETS tables (Woodward et al. 1997, Weber et al. 2015). Antecedent conditions for the August fieldwork were wetter than normal. In fact, the score of 18 is the wettest possible rating for a prior three month

period. Antecedent conditions for September were normal (Attachment E).

# 2. Turton Creek Area

# 2.1. Landscaped Area at Confluence with the Trempealeau River

A landscaped area exists between a levee and the channel of Turton Creek from its confluence with the Trempealeau River extending upstream approximately 545 feet. This area was originally a floodplain forest but has been highly disturbed. A levee was constructed years ago to address flooding problems experienced by the City of Arcadia. The present-day channel of Turton Creek at this location was formerly the main channel of the Trempealeau River (see 1938 aerial photograph). The NWI and WWI did not map this area as wetlands.

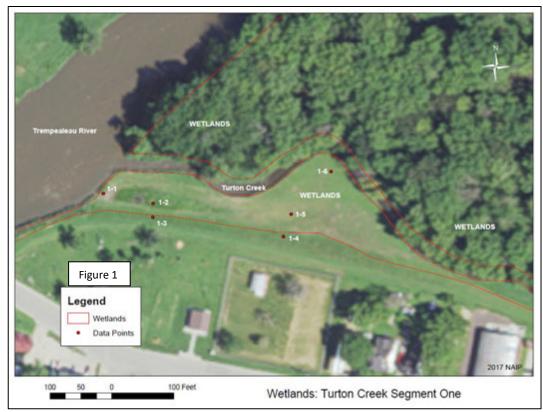
Six data points were documented. Soil samples were composed of mixed fill materials. Vegetation had been manipulated by management as turf including frequent mowing and presumed seeding of turf grasses (e.g., bluegrasses (Poa sp.)); however, turf grasses were flooded out in portions of this area creating mudflats and ponded areas. Per Chapter 5 procedures (U.S. Army Corps of Engineers 2010), managed vegetation (e.g., a planted crop, landscaped turf grasses) is excluded for purposes of the hydrophytic vegetation determination. Volunteer vegetation can be evaluated to indicate what vegetation would establish in the absence of management. In this case, volunteer vegetation was dominated by hydrophytes. Hydric soil and wetland hydrology field indicators were met. A depressional area at the western end was inundated to a depth of nine inches, which could be attributed to the wetter than normal conditions of August 2019. However, inundation is visible on six of eleven aerial photographs spanning 2004 to 2019. In sum, approximately 1.07 acre extending from the toe of the levee to the channel of Turton Creek was determined to be composed of wetlands (Figure 1). The seasonally inundated area is classified as shallow marsh (Eggers and Reed 2015)/ PEMC (Cowardin et al. 1979)/E1K (WWI). The saturated soil area is classified as fresh (wet) meadow (Eggers and Reed 2015)/PEMB (Cowardin et al. 1979)/E1K (WWI).

# 2.2. Remainder of Corridor Between the Levee and Turton Creek Upstream to North Oak Street

A narrow corridor of wetlands exists between the toe of the levee and channel of Turton Creek extending upstream to the bridge at North Oak Street. This corridor of wetlands is not continuous as there are areas where the toe of the levee abuts the creek channel. Vegetation was dominated by reed canary grass (*Phalaris arundinacea*—FACW). Classification is fresh (wet) meadow (Eggers and Reed 2015)/PEMB (Cowardin et al. 1979)/E1K (WWI).

# 2.3. Floodplain Forest

The opposing side of Turton Creek from its confluence with the Trempealeau River to



the bridge at North Oak Street is predominately composed of a floodplain forest. Exceptions include a narrow berm extending approximately 1,050 feet downstream from that bridge (see discussion under 2.4) and fill for a railroad corridor. This is the least disturbed portion of the wetland complex adjacent to Turton Creek and the Trempealeau River. It was one of the few locations where a natural soil profile (i.e., undisturbed soils) was observed as well as being the most floristically diverse (Table 1). NWI and WWI mapped this area as wetlands. Classification is floodplain forest (Eggers and Reed 2015)/PFO1C (Cowardin et al. 1979)/T3Kw (WWI).

# 2.4. Area Downstream of North Oak Street Bridge

The section of Turton Creek in the vicinity of the North Oak Street bridge and downstream had been highly disturbed by past straightening and construction of a flood-control levee along the south side. On the north side, a berm exists with that portion closest to the creek channel cleared of woody vegetation and routinely mowed. The berm was not mapped as wetlands by NWI/WWI.

A major flood event, estimated to be a 200-year event for this section of Turton Creek, occurred on 27 July 2017. High flows overtopped the berm on the north side of the creek eroding part of the berm and resulting in an extensive alluvial fan of newly deposited sandy materials north of Turton Creek. Scouring created gullies (up to 14 inches in depth) and deposition of sandy materials up to 17 inches in depth.

TABLE 1: Floodplain Forest Community										
Stratum/Common Scientific Name Indicator Dominan										
Name		Rating								
Trees:										
Silver maple	Acer saccharinum	FACW	Yes							
Box elder	Acer negundo	FAC	Yes							
Plains cottonwood	Populus deltoides ssp.	FAC	Yes							
	monilifera									
American elm	Ulmus americana	FACW	No							
Black walnut	Juglans nigra	FACU	No							
White-crack willow	Salix x fragilis	FAC	No							
Hackberry	Celtis occidentalis	FAC	No							
Green ash	Fraxinus pennsylvanica	FACW	No							
Shrubs:										
Common buckthorn	Rhamnus cathartica	FAC	Yes							
Box elder	Acer negundo	FAC	Yes							
Nannyberry	Viburnum lentago	FAC	No							
Sand-bar willow	Salix interior	OBL	No							
Elderberry	Sambucus nigra	FAC	No							
Gooseberry	Ribes missourense	FACU	No							
Woody vines:										
River-bank grape	Vitis riparia		Yes							
Herbaceous:										
Reed canary grass	Phalaris arundinacea	FACW	Yes							
Jewelweed	Impatiens capensis	FACW	Yes							
Virginia knotweed	Persicaria virginiana	FACW	Yes							
Wood nettle	Laportea canadensis	FACW	Yes							
Moneywort	Lysimachia nummalaria	FAC	Yes							
Gray-headed	Rudbeckia laciniata	FACW	No							
coneflower										
Wild cucumber	Echinocystis lobata	FAC	No							
Virginia wild-rye	Elymus virginicus	FACW	No							
Green dragon	Arisaema dracontium	FACW	No							
Ostrich fern	Matteuccia struthiopteris	FACW	No							
Giant ragweed	Ambrosia trifida	FAC	No							
Hops	Humulus lupulus	FAC	No							
Angelica	Angelica atropurpurea	OBL	No							
Stinging nettle	Urtica dioica	FAC	No							
Clearweed	Pilea pumila	FACW	No							
Red-stem aster	Symphyotrichum puniceum	OBL	No							

Flooding and deposition/scouring of soils is a natural occurrence in floodplains; however, a 200-year flood event could be considered a catastrophic event the results of which do not represent the normal circumstances. But given that the deposition and scouring were the result of natural events, a stronger case can be made to consider current conditions as representing new normal circumstances. That approach was

adopted for this delineation.

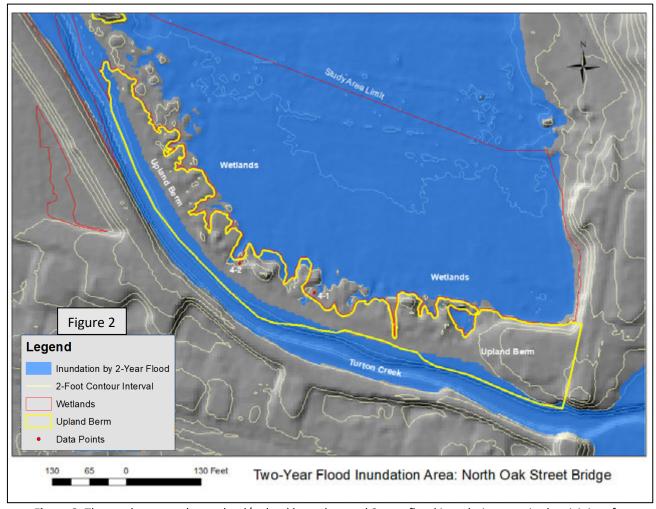
A determination of hydric versus non-hydric soils was complicated by the recent, substantial scouring/deposition as well as past placement of fill materials. Data Point 4-1 was located in an area that appeared to have been scoured—herbaceous vegetation had been washed away and was still in the process of recolonizing this site. Soils met a hydric soil field indicator. Abundant hydrology indicators were observed (e.g., drift deposits, sediment deposits); however, these could be misleading as they were due to a recent, major flood event as opposed to indicating inundation at a frequency and duration sufficient to support wetland hydrology. This data point was on the boundary of inundation by the 2-year flood event—but this modeling used contour mapping based on pre-July 2017 conditions that do not reflect any scouring (lowering in elevation) that may have occurred due to the July 2017 flood event. Herbaceous vegetation was depauperate and low areal cover by pioneering species should be viewed with caution as it may not be a reliable indicator of what herbaceous cover would eventually dominate. Trees were a mix of FACW/FAC/ FACU species. There was no shrub layer. Overall, the hydrophytic vegetation criterion was met. This data point was determined to be within wetlands.

Data Point 4-2 was located within a more heavily forested portion of the berm. Trees were composed of a mix of FAC and FACU species, as were shrubs. Again, the herbaceous layer was depauperate and composed of pioneering species; therefore, it may not be a reliable indicator of what herbaceous cover would eventually dominate. Using tree and shrub species alone, the hydrophytic vegetation criterion was met. Piles of fill materials were observed and the soil pit was located outside of those obvious disturbances. However, the soil pit revealed recent deposition of 17 inches of sandy materials, the depth of which eliminated all hydric soil field indicators. While hydrology indicators such as drift deposits and sediment deposits were abundant, these could be misleading as they were due to a major flood event as opposed to indicating inundation at a frequency and duration sufficient to support wetland hydrology. This data point was also located just outside of the area inundated by the 2-year flood—note that this was based on pre-July 2017 contour mapping that does not reflect an increase in elevation due to a 17-inch thick layer of new sediments. The final determination for this data point was that it was within uplands. See discussion below.

Along this reach of Turton Creek, the 2-year flood elevation determined by the Corps model extended to approximately elevation 732. While the 2-year flood elevation addresses the ≥50% frequency requirement of the wetland hydrology technical standard, it does not address the duration requirement of ≥14 consecutive days during the growing season. An inquiry was made as to whether the Corps model could be calibrated to determine a 14-day duration, 2-year flood event. While this modeling is possible, the time and cost to calibrate and run the model were beyond the scope of this wetland delineation effort. Additionally, a new contour map would be needed given changes due to the 2017 flood event. Using the elevation of the 2-year flood event with no duration requirement would be conservative—i.e., showing the maximum areal

extent that could meet wetland hydrology via flooding alone.

The berm along the north side of Turton Creek is at elevation 732-734. The 2-year flood elevation and 2-foot contour interval mapping for the site, in conjunction with field verification, were applied and determined that the majority of the berm—approximately 1.95 acre— is composed of uplands (Figure 2). Initially, the wetland/upland boundary along the backside portion (northern boundary) of the berm was mapped using the 732 contour interval. However, that contour mapping used pre-July 2017 conditions and does not reflect changes due to deposition and scouring by the July 2017 event. Field verification in 2019 included collecting GPS data points to document present-day conditions. Figure 2 illustrates the end product of modifying the 732 contour line using GPS data to arrive at the present-day wetland/upland boundary. The topography break along the backside of the berm was the final element in this determination. NWI/WWI mapped wetlands in about one-third of the wetland area shown by Figure 2 and classified it as PFO1/EM1C (Cowardin et al. 1979)/T3/E1Kw (WWI).

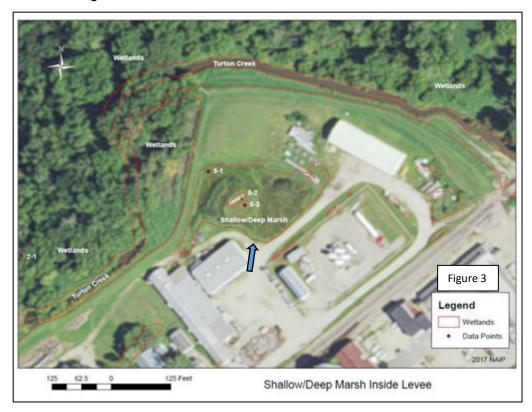


**Figure 2:** The gap between the wetland/upland boundary and 2-year flood inundation area in the vicinity of Data Point 4-1 appears to be a result of scouring by the July 2017 event. Scattered, small (less than 0.01 acre) piles of dredged/fill material at elevation 732 or greater are uplands but were not individually mapped for purposes here.

# 2.5. Wetlands on Interior (City Side) of Levee Along Turton Creek

# 2.5.1 Shallow/Deep Marsh

This area was historically part of the extensive floodplain forest complex adjacent to the Trempealeau River and Turton Creek but was cut-off by construction of the levee and then subjected to various fill activities over the years. The higher, drier portions are routinely mowed when conditions allow. NWI/WWI did not map any wetlands at this location; however, an area of approximately 0.77 acre consistently showed wet signatures including inundation visible in seven of eleven years of aerial photography spanning 2004-2019 (Figure 3). Soils were hydric and inundation up to 9 inches (22 August) and 14 inches (24 September) was observed. Three wetland plant communities were field-verified: (1) deep marsh (Eggers and Reed 2015)/PEMF (Cowardin et al. 1979)/E2H (WWI) dominated by water plantain (Alisma triviale—OBL) and lesser duckweed (Lemna minor—OBL) with broad-leaved arrowhead (Sagittaria latifolia—OBL) and cattails (Typha spp.— OBL) also common; (2) shallow marsh (Eggers and Reed 2015)/PEMC (Cowardin et al. 1979)/E1K (WWI) dominated by water plantain and marsh spike-rush (Eleocharis palustris—OBL); and (3) seasonally flooded basin (Eggers and Reed 2015)/PEMA (Cowardin et al. 1979)/E1K (WWI) dominated by flat-sedges (Cyperus strigosus, C. diandrus—both FACW). Regarding the seasonally flooded basin—this area is what remains after a fill activity visible on 2005 aerial photography. Placement of fill changed the wetland type, but was insufficient to convert the area to non-wetlands. In contrast, an adjacent, small, linear area was filled to a higher elevation that was sufficient to convert it to non-wetlands.



# 2.5.2 Stormwater Wetlands

A stormwater drainage ditch, consisting of wetlands, exists along the north end of Van Buren Street and then follows Massuere Street. Cattails and reed canary grass were the dominant species while non-dominants included beggarticks (*Bidens cernua*—OBL) and giant managrass (*Glyceria grandis*—OBL). A stormwater ponding area consisting of approximately 0.14 acre of wetlands exists at the junction of Massuere Street and East River Street. Saturated soils and microdepressions with standing water were observed. Dominant vegetation was a spike-rush (*Eleocharis* sp.) along with a diversity of pioneering species including flat-sedges, smartweeds and curly dock (*Rumex crispus*—FAC). Classification is seasonally flooded basin (Eggers and Reed 2015)/PEMA (Cowardin et al. 1979)/E1K (WWI).

# 2.5.3 Other Wetlands

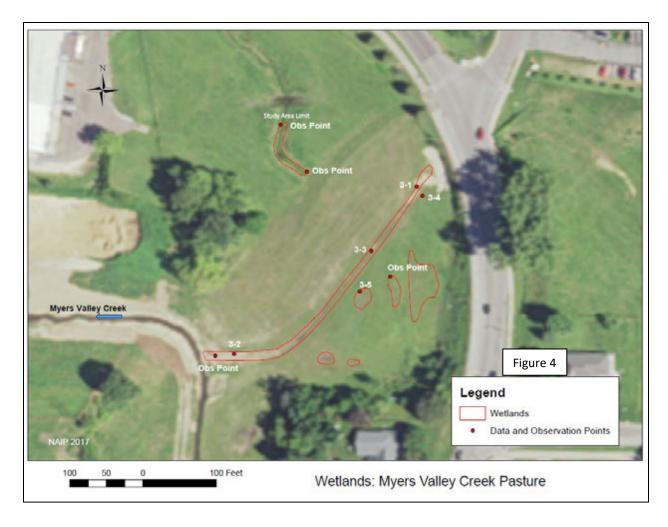
A number of small, isolated pockets of wetlands were mapped. Most were dominated by reed canary grass. Plains cottonwood, willows and common buckthorn were present in some remnants.

# 3. Myers Valley Creek and Pasture Area

This area has a long history of disturbance. Myers Valley Creek has been rerouted twice, most recently in 2016 when the creek was diverted to the west and a large berm was constructed to block flows to the north (towards the Ashley Furniture complex). A man-made swale now conveys runoff from the north that is directed into the swale via large culverts under South Washington Street (County Road J) and then connects with the new channel of Myers Valley Creek (Figure 4).

Soils have been significantly disturbed by past grading and filling activities. Compacted soils of this site required multiple attempts to find locations where soil samples could be taken, and then often to a depth of less than 10 inches before encountering a layer that could not be penetrated with hand tools. Vegetation largely consisted of a typical pasture/erosion control seed mix including perennial rye (*Lolium perenne*—FACU), annual bluegrass (*Poa annua*—FACU) and clovers (*Trifolium repens*, *T. pratense*, *T. hybridum*—all FACU). Thus, the area was considered to be managed vegetation. Chapter 5 procedures exclude a planted/seeded crop from the hydrophytic vegetation determination. Volunteer vegetation can be used, but caution is advised if the total areal cover by volunteer species is low. The area was recently grazed, but dominant vegetation could still be identified. In sum, all three factors—hydrology, soils and vegetation—were significantly disturbed.

NWI/WWI did not map any wetlands within this area.



Data points were established within the newly-constructed, man-made swale. Dominant vegetation was composed of water pepper (*Persicaria hydropiper*—OBL) and reed canary grass as opposed to species associated with a pasture/erosion control mix. Soils were hydric and wetland hydrology was evident. Moving upslope to a slightly higher elevation, soils remained hydric but both wetland hydrology and hydrophytic vegetation were absent. The swale, approximately 432 feet in length and ranging from approximately 8.5 to 13.0 feet in width, was delineated as wetlands. Classification is seasonally flooded basin (Eggers and Reed 2015)/PEMA (Cowardin et al. 1979)/E1K (WWI).

Five, small, isolated wetland depressions (totaling approximately 0.10 acre) were also documented within the pasture. These areas were ponded at the time of site visits (August and September 2019). Hydric soils and dominance by hydrophytes were observed with water pepper being the primary dominant. Classification is seasonally flooded basin (Eggers and Reed 2015)/PEMA (Cowardin et al. 1979)/E1K (WWI).

A remnant of the channel of Myers Valley Creek located north of the newly constructed berm is within the project corridor and consists of a steep-walled, 3.5-foot deep channel approximately 6-feet in width. Standing water and dominance by hydrophytic vegetation was observed.

# 4. Natural Wetlands, Former Sewage Lagoons and Stormwater Pond

An extensive wetland complex composed of wet meadow, shallow/deep marsh and open water exists along the southern and western borders of the project corridor, which consist of a levee. Both natural wetlands, and abandoned sewage lagoons that have reverted to wetlands, are present. In order to avoid wetland impacts, the proposed project would be built on top of the existing levee. Wetland hydrology includes a water table ≤12 inches from the soil surface for ≥14 consecutive days during the growing season in most years. Given the semi-permanent inundation associated with this wetland complex, the wetland boundary would be 12 inches above the normal water elevation. Further delineation of this boundary was not part of the subject delineation.

The southern boundary includes a stormwater pond that would be impacted by the proposed project. The pond was vegetated by coontail (*Ceratophyllum demersum*) and elodea (*Elodea canadensis*).

# 5. Literature Cited

Cowardin, L., V. Carter, F. Golet and E. LaRoe. 1979. *Classification of Wetlands and Deepwater Habitats of the United States*. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. 103 pp.

Eggers, S. and D. Reed. 2015. Wetland Plants and Plant Communities of Minnesota and Wisconsin— Version 3.2. U.S. Army Corps of Engineers, St. Paul District. St. Paul, MN. 478 pp.

Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS. 98 pp. plus appendices.

U.S. Army Corps of Engineers. 2005. *Technical Standard for Water-Table Monitoring of Potential Wetland Sites*. WRAP Technical Notes Collection (ERDC TN-WRAP-05-2). U.S. Army Engineer Research and Development Center, Vicksburg, MS. 18 pp.

U.S. Army Corps of Engineers. 2010. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region—Version 2.0.* Ed. By J. Wakeley, R. Lichvar and C. Noble. ERDC/EL TR-10-16. U.S. Army Engineer Research and Development Center, Vicksburg, MS. 152 pp.

Weber, R. ed. 2015. *Hydrology Tools for Wetland Identification and Analysis*. Chapter 19, Engineering Field Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX. 112 pp.

Woodward, D. ed. 1997. *Hydrology Tools for Wetland Determination*. Chapter 19, Engineering Field Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX. 55 pp.

Attachment A: Wisconsin Wetland Inventory Maps

# PROCESSION DEPOCACES

# **Surface Water Data Viewer Map**



0.3 Miles

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/legal/

# Legend

 Wetland Identifications and Confirmations

Wetland Class Points

Dammed pond

Excavated pond

Filled excavated pond

Filled/drained wetland

Wetland too small to delineate

Filled Points

Wetland Class Areas

Wetland

Upland

Upland

Filled Areas

Wetland Class Points

Dammed pond

Excavated pond

Filled excavated pond

Wetland too small to delineate

Filled Points

Wetland Class Areas

::: Wetland

....

Upland

Filled Areas

Municipality

State Boundaries

County Boundaries

Major Roads

Interstate Highway

State Highway

US Highway

County and Local Roads

County HWY

\_\_\_ Local Road

Dallanda

**Notes** 

NAD\_1983\_HARN\_Wisconsin\_TM

0.3

1: 7,920

0.13

# Legend Surface Water Data Viewer Map Wetland Identifications and Confirmations Wetland Class Points Dammed pond Excavated pond Filled excavated pond Filled/drained wetland Wetland too small to delineate Filled Points Wetland Class Areas Wetland Upland Filled Areas Wetland Class Points Dammed pond Excavated pond Filled excavated pond Filled/drained wetland Wetland too small to delineate ➌ Filled Points Wetland Class Areas Wetland Upland Filled Areas Municipality **State Boundaries County Boundaries** Major Roads Interstate Highway State Highway US Highway County and Local Roads County HWY \_\_\_ Local Road D-:|---d-Notes 0.3 Miles 0.3 0.13 DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy,

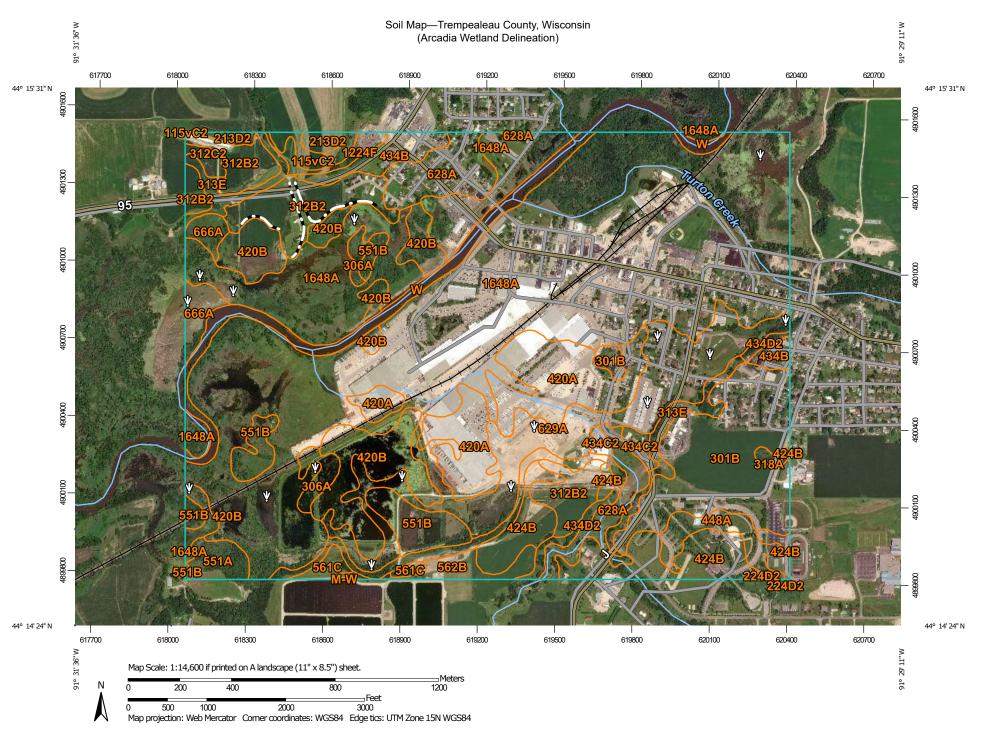
NAD\_1983\_HARN\_Wisconsin\_TM

1: 7,920

applicability for a particular use, completeness, or legality of the information depicted on this

map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/legal/

# Attachment B: Web Soil Survey



# MAP LEGEND

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**Water Features** 

Transportation

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Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

**US Routes** 

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

# Area of Interest (AOI)

Area of Interest (AOI)

### Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

### Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

▲ Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

# MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15.800.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Trempealeau County, Wisconsin Survey Area Data: Version 11, Sep 12, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

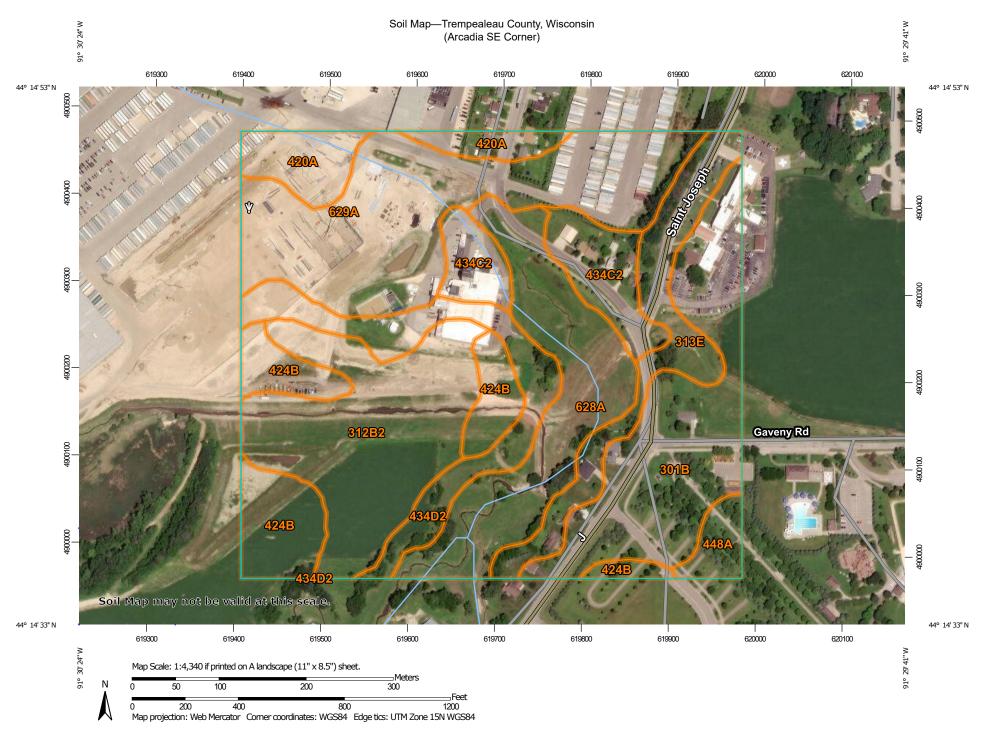
Date(s) aerial images were photographed: Jun 5, 2015—Sep 28, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
115vC2	Seaton silt loam, driftless valley, 6 to 12 percent slopes, moderately eroded	4.8	0.5%
213D2	Hixton silt loam, 12 to 20 percent slopes, moderately eroded	5.5	0.6%
224D2	Elevasil sandy loam, 12 to 20 percent slopes, moderately eroded	0.5	0.0%
301B	Pillot silt loam, 2 to 6 percent slopes	69.1	6.9%
306A	Whitehall silt loam, 0 to 3 percent slopes, occasionally flooded	8.2	0.8%
312B2	Festina silt loam, 1 to 6 percent slopes, moderately eroded	49.5	4.9%
312C2	Festina silt loam, 6 to 12 percent slopes, moderately eroded	2.9	0.3%
313E	Plumcreek silt loam, 20 to 45 percent slopes	16.7	1.7%
318A	Bearpen silt loam, 0 to 3 percent slopes, rarely flooded	1.3	0.1%
420A	Bilson fine sandy loam, 0 to 2 percent slopes	59.9	5.9%
420B	Bilson fine sandy loam, 2 to 6 percent slopes	57.4	5.7%
424B	Merit silt loam, 1 to 6 percent slopes	43.3	4.3%
434B	Bilson sandy loam, 1 to 6 percent slopes	14.0	1.4%
434C2	Bilson sandy loam, 6 to 12 percent slopes, moderately eroded	4.6	0.5%
434D2	Bilson sandy loam, 12 to 20 percent slopes, moderately eroded	19.0	1.9%
448A	Sooner silt loam, 0 to 3 percent slopes	12.0	1.2%
551A	Impact sand, 0 to 3 percent slopes	8.1	0.8%
551B	Impact sand, 2 to 6 percent slopes	25.0	2.5%

			D ( (AO)
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
561C	Tarr sand, 6 to 15 percent slopes	4.9	0.5%
562B	Gosil loamy sand, 1 to 6 percent slopes	8.4	0.8%
628A	Orion silt loam, 0 to 3 percent slopes, occasionally flooded	35.1	3.5%
629A	Ettrick silt loam, 0 to 2 percent slopes, frequently flooded	76.0	7.6%
666A	Absco loamy sand, 0 to 3 percent slopes, occasionally flooded	10.9	1.1%
1224F	Boone-Elevasil complex, 15 to 50 percent slopes	5.2	0.5%
1648A	Northbend-Ettrick silt loams, 0 to 3 percent slopes, frequently flooded	438.3	43.5%
M-W	Miscellaneous water	0.1	0.0%
W	Water	26.0	2.6%
Totals for Area of Interest		1,006.5	100.0%



# MAP LEGEND

# Area of Interest (AOI)

Area of Interest (AOI)

### Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

### **Special Point Features**

Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



**Gravelly Spot** 



Landfill



Lava Flow Marsh or swamp





Mine or Quarry Miscellaneous Water





Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot





Sinkhole Slide or Slip



Sodic Spot

Spoil Area



Stony Spot



Very Stony Spot



Wet Spot Other



Special Line Features

# Water Features

Streams and Canals

## Transportation



Rails



Interstate Highways



**US Routes** 



Major Roads



Local Roads

# Background



Aerial Photography

# MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15.800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Trempealeau County, Wisconsin Survey Area Data: Version 11, Sep 12, 2018

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

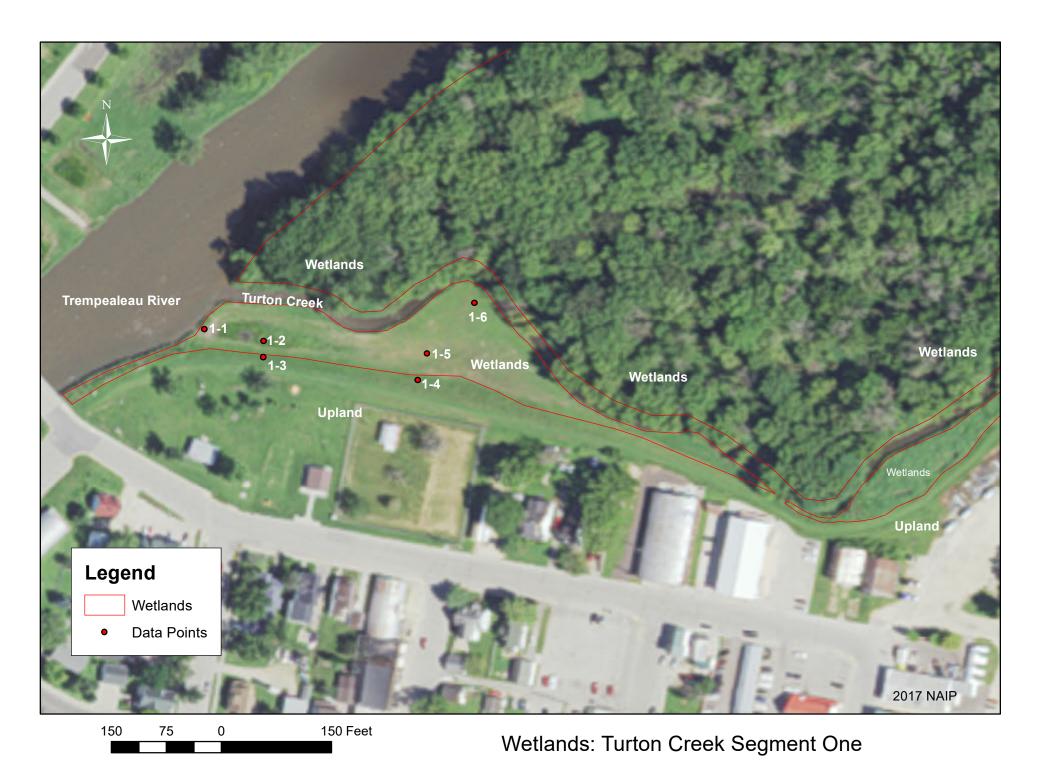
Date(s) aerial images were photographed: Jun 5, 2015—Sep 28. 2017

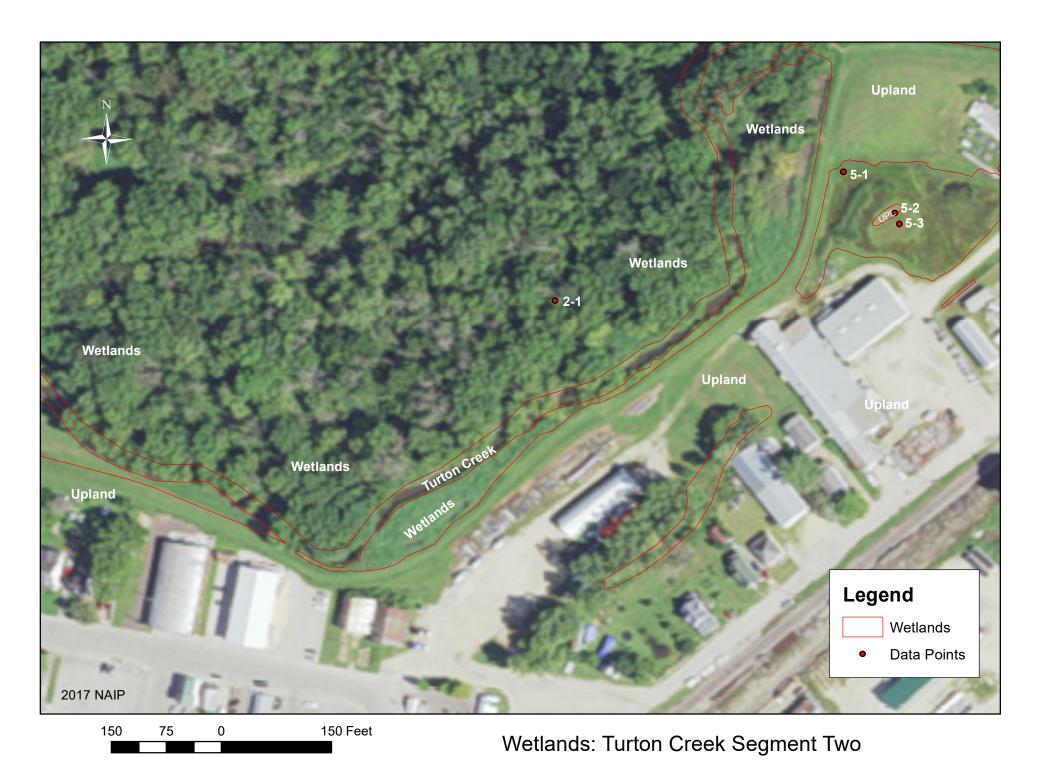
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

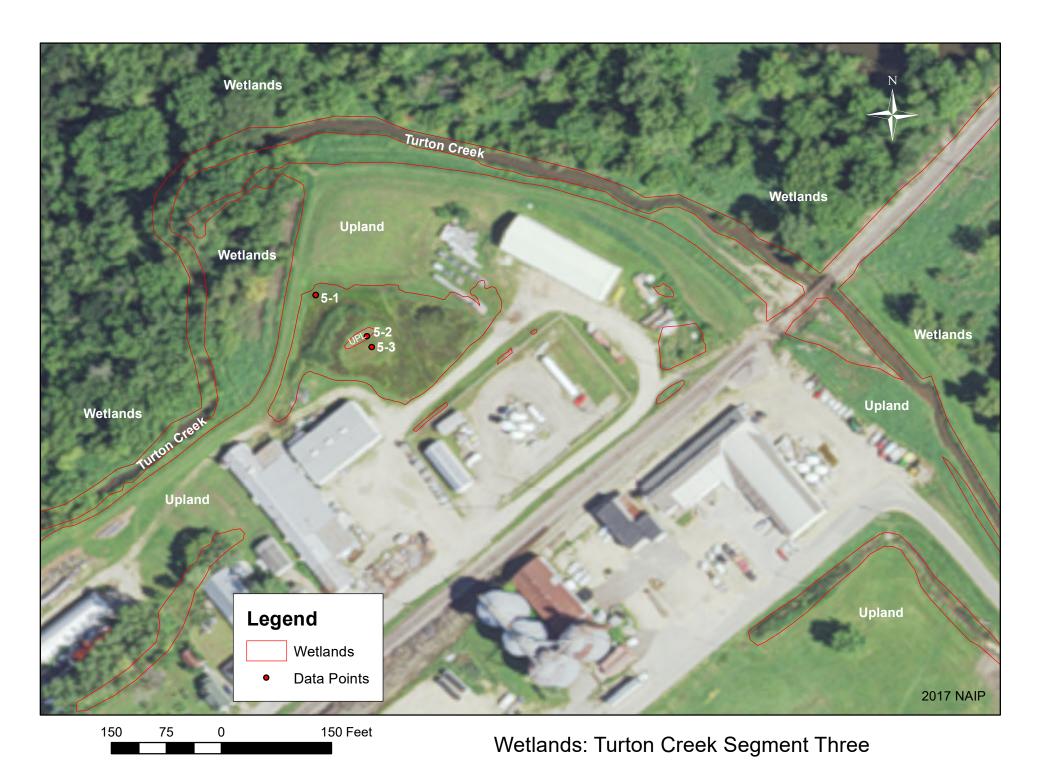
# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
301B	Pillot silt loam, 2 to 6 percent slopes	11.0	15.1%
312B2	Festina silt loam, 1 to 6 percent slopes, moderately eroded	11.7	15.9%
313E	Plumcreek silt loam, 20 to 45 percent slopes	5.6	7.6%
420A	Bilson fine sandy loam, 0 to 2 percent slopes	3.4	4.7%
424B	Merit silt loam, 1 to 6 percent slopes	6.3	8.7%
434C2	Bilson sandy loam, 6 to 12 percent slopes, moderately eroded	4.6	6.3%
434D2	Bilson sandy loam, 12 to 20 percent slopes, moderately eroded	5.7	7.7%
448A	Sooner silt loam, 0 to 3 percent slopes	1.2	1.6%
628A	Orion silt loam, 0 to 3 percent slopes, occasionally flooded	9.5	12.9%
629A	Ettrick silt loam, 0 to 2 percent slopes, frequently flooded	14.3	19.5%
Totals for Area of Interest		73.3	100.0%



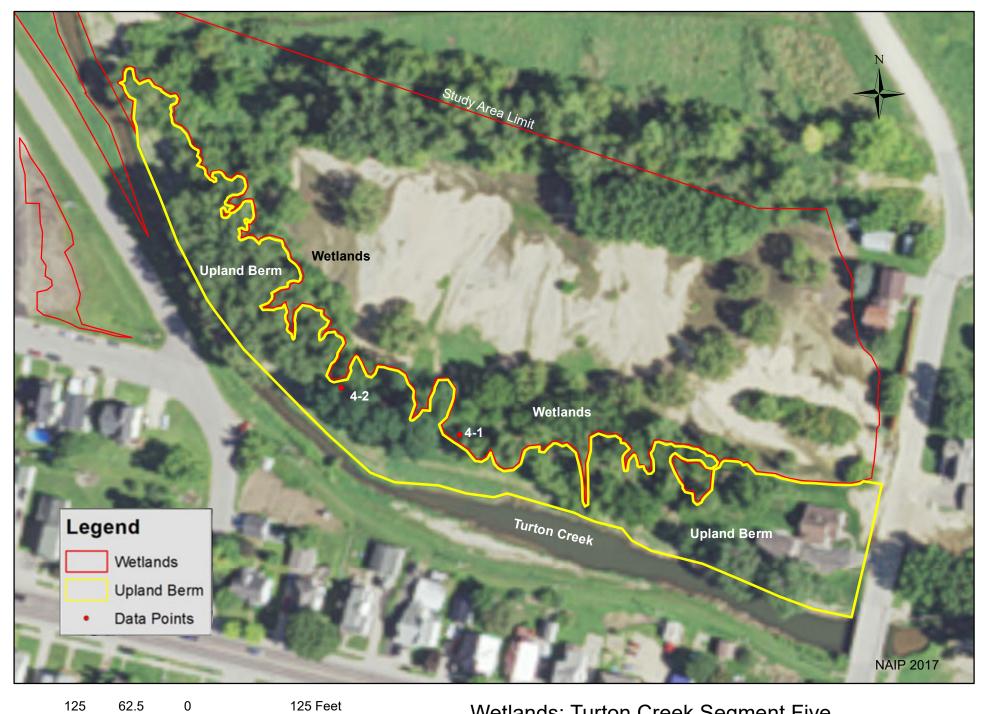








Wetlands: Turton Creek Segment Four

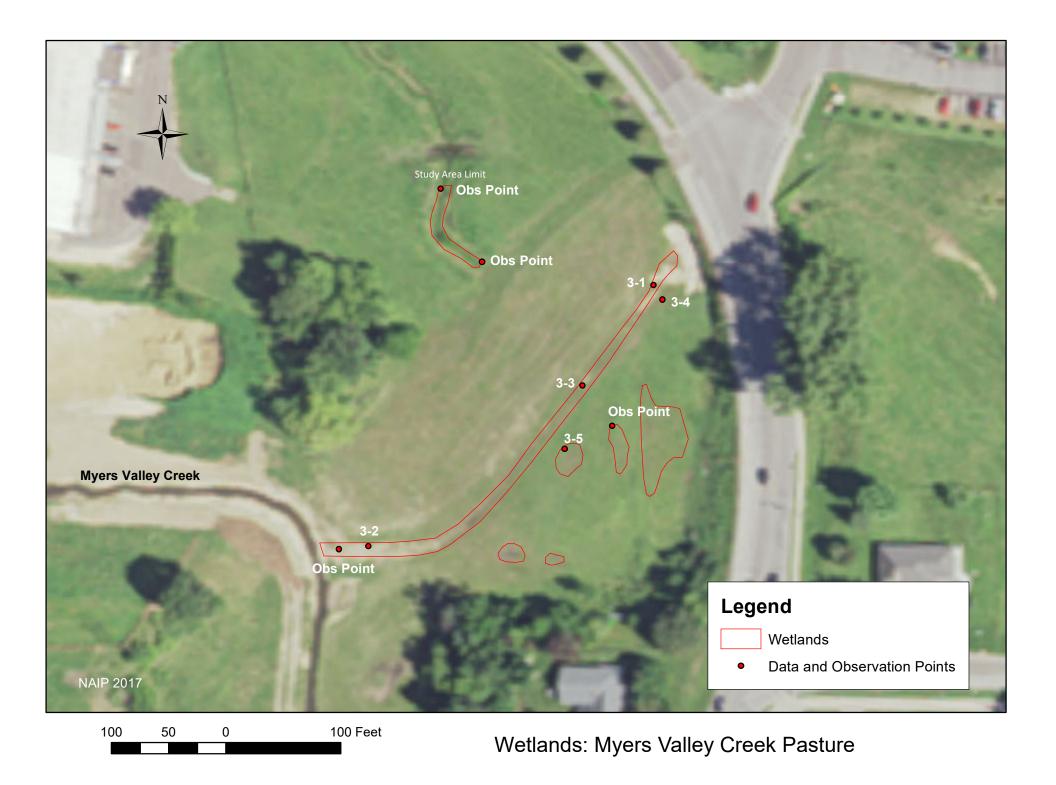


Wetlands: Turton Creek Segment Five



125 62.5 0 125 Feet

Wetlands: Turton Creek Segment Six



# WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Arcadia 205 Project	City/Cou	Sampling Date:	8/14-15/2019			
Applicant/Owner:			State: WI	Sampling Point:	1-1	
Investigator(s): Steve Eggers, LeeAnn Glomski, Vanes	sa Alberto	Section, T	Township, Ra	nge:	•	
Landform (hillside, terrace, etc.):			Local relief (	concave, convex, none):		
Slope (%):0 Lat:				,	Datum:	
Soil Map Unit Name:					fication: PEMB	
Are climatic / hydrologic conditions on the site typical for			Vec	No X (If no, ex	-	
Are Vegetation X , Soil X , or Hydrology X s		-		Circumstances" present?		lo Y
						<u> </u>
Are Vegetation, Soil, or Hydrologyr				plain any answers in Re	·	
SUMMARY OF FINDINGS – Attach site ma	ap snowir	ng sampiin	g point io	cations, transects	, important tea	tures, etc.
Hydrophytic Vegetation Present? Yes X No		Is the	Sampled A	rea		
Hydric Soil Present? Yes X No		within	n a Wetland	? Yes X	No	
Wetland Hydrology Present? Yes X No	<u> </u>					
Remarks: Landscaped turf area, recently mowed, extending from	n too of floor	loontrol lovoo	to propert de	ov shannel of Turton Cro	ok Not normal aira	umatanaaa
given active management of vegetation for turf/landsc						umstances
VEGETATION – Use scientific names of pla	nts					
TECETITION COS COLONIAMO MARINES OF PIA	Absolute	Dominant	Indicator			
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test wo	rksheet:	
1.				Number of Dominant	•	- (.)
2.				Are OBL, FACW, or I		3 (A)
3				Total Number of Dom	ninant Species	2 (D)
5.				Across All Strata:	On a size That	3 (B)
J		=Total Cover		Percent of Dominant Are OBL, FACW, or I	•	00.0% (A/B)
Sapling/Shrub Stratum (Plot size:				, 022,		<del>/0.070</del> (/ 4/2)
1.				Prevalence Index w	orksheet:	
2.				Total % Cover o	f: Multipl	y by:
3.				· —	5 x 1 =	15
4				· · —	.0 x 2 =	80
5					0 x 3 =	0
Hart Otation (District 71 and 1		=Total Cover			0 x 4 =	0
Herb Stratum (Plot size: 7' x 11' )	20	Yes	FACW	UPL species0 Column Totals: 5	0 x 5 = 55 (A)	95 (B)
Cyperus esculentus     Periscaria hydropiper	15	Yes	OBL	Prevalence Index		
Phalaris arundinacea	15	Yes	FACW	1 Tevalence much	- B/A - 1.1	<u> </u>
Lysimachia nummularia	5	No	FACW	Hydrophytic Vegeta	tion Indicators:	
5.					r Hydrophytic Vege	tation
6.				X 2 - Dominance To		
7.				X 3 - Prevalence In	dex is ≤3.0 <sup>1</sup>	
8.					l Adaptations <sup>1</sup> (Prov	
9					ks or on a separate	,
10				Problematic Hydi	rophytic Vegetation	<sup>1</sup> (Explain)
		=Total Cover		<sup>1</sup> Indicators of hydric s	•	
Woody Vine Stratum (Plot size:)				be present, unless dis	sturbed or problema	atic.
1 2.				Hydrophytic		
۷.		=Total Cover		Vegetation Present? Yes	X No	
Daniella (Inchela I. I.		- rotal COVE		riesellt: 168		
Remarks: (Include photo numbers here or on a separ Turf grass (Poa sp.) with 60% areal cover. This is a "n		nt community	" ner Chantar	5 procedures. The plan	ted/managed vogst	tation is
excluded from the hydrophytic vegetation determination						

US Army Corps of Engineers

SOIL Sampling Point: 1-1

Depth	Matr		Redo	x Featur				
inches)	Color (mois	t) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 4/2	70	7.5YR 4/4	5	С	M	Loamy/Clayey	Mixed fill materials
	10YR 5/1	25						
8-20	10YR 2/2	70	7.5YR 4/4	10	С	М	Loamy/Clayey	
	10YR 3/2	20					,	
Type: C=Co	oncentration D=	Depletion RM	=Reduced Matrix, N	/S=Masl	ed Sand	I Grains	2l ocation	n: PL=Pore Lining, M=Matrix.
Hydric Soil I		Bopiodon, ravi	rtoddodd Matrix, 1	ivide.	tou oune	· Oranio.		rs for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Gle	yed Mat	ix (S4)			st Prairie Redox (A16)
Histic Ep	ipedon (A2)		Sandy Red				Iron-	Manganese Masses (F12)
Black His	stic (A3)		Stripped M	latrix (S6	5)		Red	Parent Material (F21)
Hydroger	n Sulfide (A4)		Dark Surfa	ice (S7)			Very	Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Othe	er (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)			
Depleted	Below Dark Su	rface (A11)	X Depleted		-			
Thick Da	rk Surface (A12	)	X Redox Da					rs of hydrophytic vegetation and
	ucky Mineral (S	-	Depleted [					and hydrology must be present,
5 cm Mu	cky Peat or Pea	t (S3)	? Redox De	oression	s (F8)		unle	ss disturbed or problematic.
Restrictive L	_ayer (if observ	ed):						
Type:								
Depth (in	nches):							
Disturbed, no construction	ot a natural soil parts	f Trempealeau	River and Turton (	creek, th	s area h	as been h	nighly disturbed. Red	ural soil profile). Given levee lox in upper 8 inches with diffuse
construction	ot a natural soil parts	f Trempealeau	River and Turton (	creek, th	s area h	as been h	rs is reverse of a nat	ural soil profile). Given levee
Disturbed, no construction	ot a natural soil p and re-routing o indicating it is no	f Trempealeau	River and Turton (	creek, th	s area h	as been h	rs is reverse of a nat	ural soil profile). Given levee lox in upper 8 inches with diffuse
Disturbed, no construction ooundaries (i	ot a natural soil p and re-routing o indicating it is no	f Trempealeau ot relic). Landso	River and Turton (	creek, th	s area h	as been h	rs is reverse of a nat	ural soil profile). Given levee lox in upper 8 inches with diffuse
Disturbed, no construction boundaries (i	ot a natural soil pand re-routing of indicating it is not offer the following the foll	f Trempealeau ot relic). Landso ors:	i River and Turton ( cape position and v	Creek, thi olunteer	s area ha	as been h	rs is reverse of a nat nighly disturbed. Rec e wetland conditions	ural soil profile). Given levee lox in upper 8 inches with diffuse
Disturbed, no construction poundaries (in STATE   STAT	ot a natural soil pand re-routing of indicating it is not of the control of the c	f Trempealeau ot relic). Landso ors:	River and Turton (cape position and vince)  sired; check all that  Water-Sta	creek, thi colunteer apply) ined Lea	s area havegetation	as been h	rs is reverse of a nat nighly disturbed. Rec e wetland conditions Seconda Surf	ural soil profile). Given levee lox in upper 8 inches with diffuse s. BPJ is that soil is hydric.  ary Indicators (minimum of two require ace Soil Cracks (B6)
Disturbed, no construction poundaries (in the construction poundaries (in the construction of the construc	ot a natural soil pand re-routing of indicating it is not of the control of the c	f Trempealeau ot relic). Landso ors:	River and Turton Coape position and vote positio	apply) ined Lea	s area havegetation	as been h	rs is reverse of a nathighly disturbed. Receive wetland conditions  Seconda Surf	ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10)
Disturbed, no construction poundaries (in STANDED VELLANDED VELLANDE VELLANDED VELLAND	ot a natural soil pand re-routing of indicating it is not of the following	f Trempealeau ot relic). Landso ors:	River and Turton (cape position and volume position and volume)  street; check all that  Water-Sta  Aquatic Fa  True Aqua	apply) ined Lea uuna (B1 tic Plant	s area havegetation ves (B9) 3) s (B14)	as been h	rs is reverse of a nathighly disturbed. Receive wetland conditions  Seconda Surf Drai Dry-	ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
Disturbed, no construction poundaries (in the pound	ot a natural soil pand re-routing of indicating it is not offer the control of th	f Trempealeau ot relic). Landso ors:	n River and Turton Coape position and votage p	apply) ined Lea uuna (B1 tic Plant Sulfide (	s area h. vegetation ves (B9) 3) s (B14) Odor (C1)	as been h	rs is reverse of a nathighly disturbed. Receive wetland conditions  Seconda Surf Drai Dry- Cray	ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) (fish Burrows (C8)
Disturbed, not construction boundaries (in the property of the	ot a natural soil pand re-routing of indicating it is not of the following	f Trempealeau ot relic). Landso ors:	n River and Turton Coape position and vocape position and vocape position and vocape position and vocape with the coape position and vocape positi	apply) ined Lea iuna (B1 tic Plant Sulfide ( Rhizosph	ves (B9) s (B14) odor (C1) eres on L	as been hon indicat	rs is reverse of a nat nighly disturbed. Receive wetland conditions  Seconda Surf Drai Dry- Cray ots (C3) Satu	ary Indicators (minimum of two requires ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) uration Visible on Aerial Imagery (C9)
Disturbed, no construction boundaries (in the primary Indicated States of the Indicated States	ot a natural soil pand re-routing of indicating it is not of the control of the c	f Trempealeau ot relic). Landso ors:	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea iuna (B1 tic Plant Sulfide C khizosph of Reduce	ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (	as been hon indicat	rs is reverse of a nat highly disturbed. Receive wetland conditions  Seconda Surf Drai Dry- Cray ots (C3) Satu	ary Indicators (minimum of two requires ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) frish Burrows (C8) artion Visible on Aerial Imagery (C9) atted or Stressed Plants (D1)
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Disturbed, no construction boundaries (in the property of the	ot a natural soil pand re-routing of indicating it is not of the control of the c	f Trempealeau ot relic). Landso ors: of one is requ	n River and Turton Coape position and vocape position and vocape position and vocape position and vocape coape position and vocape coape position and vocape position	apply) ined Lea tuna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface	s area havegetation  ves (B9) 3) s (B14) Odor (C1) eres on Leed Iron (tion in Ti (C7)	as been hon indicat	rs is reverse of a nathighly disturbed. Receive wetland conditions  Seconda Surf Drai Dry- Cray ots (C3) Satu Stur (C6) X Geo	ary Indicators (minimum of two requires ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) frish Burrows (C8) artion Visible on Aerial Imagery (C9) atted or Stressed Plants (D1)
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Disturbed, no construction poundaries (in the poundaries of the po	ot a natural soil pand re-routing of indicating it is not indicated at the cators (minimum Water (A1) in (A3) arks (B1) it Deposits (B2) in (B3) it or Crust (B4) in (B5) on Visible on Aero Vegetated Conditions in the catorial indicated in the cat	f Trempealeau of relic). Landso  ors: of one is requ  rial Imagery (B	n River and Turton Coape position and vocape and vocape position a	apply) ined Lea nuna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Ddor (C1) eres on L led Iron ( (C7) a (D9)	as been hon indicat	rs is reverse of a nathighly disturbed. Receive wetland conditions  Seconda Surf Drai Dry- Cray ots (C3) Satu Stur (C6) X Geo	ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) Infish Burrows (C8) Inration Visible on Aerial Imagery (C9) Inted or Stressed Plants (D1) Imorphic Position (D2)
Disturbed, no construction poundaries (in the poundaries of the po	ot a natural soil pand re-routing of indicating it is not indicated at the cators (minimum Water (A1) iter Table (A2) in (A3) in (A3) in (A3) in (A3) in (B1) in (B2) in (B3) it or Crust (B4) in Visible on Aer Vegetated Conceptations:	f Trempealeau of relic). Landso  ors: of one is requ  rial Imagery (B	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or B8) Other (Exp	apply) ined Lea iuna (B1 tic Plant Sulfide C khizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1) eres on Led Iron (tion in Ti (C7) a (D9) emarks)	as been hon indicat  Living Roc C4)  Edited Soils	rs is reverse of a nathighly disturbed. Receive wetland conditions  Seconda Surf Drai Dry- Cray ots (C3) Satu Stur (C6) X Geo	ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) Infish Burrows (C8) Inration Visible on Aerial Imagery (C9) Inted or Stressed Plants (D1) Imorphic Position (D2)
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Disturbed, no construction poundaries (in poundarie	ot a natural soil pand re-routing of indicating it is not of indicating it is	ors: of one is required in the state of the	ired; check all that  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 B8) Other (Exp	apply) ined Lea tuna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii	ves (B9) 3) s (B14) Odor (C1) eres on L tion in Ti (C7) a (D9) emarks) nches):nches):nches): _	as been hon indicated by the control of the control	rs is reverse of a nath highly disturbed. Receive wetland conditions  Seconda Surf Drai Dry- Cray ots (C3) Satu Stur (C6) X Geo X FAC	ary Indicators (minimum of two required ace Soil Cracks (B6) anage Patterns (B10) Season Water Table (C2) frish Burrows (C8) aration Visible on Aerial Imagery (C9) atted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Disturbed, no construction poundaries (in poundaries (in poundaries) (in pound	ot a natural soil pand re-routing of indicating it is not indicating in indicating indicating in indicating indicating in indicating in indicating in	f Trempealeau of relic). Landso  ors: of one is requ  rial Imagery (B cave Surface (	ired; check all that  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 B8) Other (Exp	apply) ined Lea tuna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1) eres on L tion in Ti (C7) a (D9) emarks) nches):nches):nches): _	as been hon indicat  Living Roc C4)  Eled Soils	rs is reverse of a nathighly disturbed. Receive wetland conditions  Seconda Surf Drai Dry- Cray ots (C3) Satu Stur (C6) X Geo	ary Indicators (minimum of two requires ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) frish Burrows (C8) aration Visible on Aerial Imagery (C9) atted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Disturbed, no construction poundaries (in poundaries (in poundaries) (in pound	ot a natural soil pand re-routing of indicating it is not indicating in indicating indicating in indicating indicating in	rial Imagery (B cave Surface (  Yes X Yes X X	ired; check all that  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 B8) Other (Exp	apply) ined Lea iuna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	s area havegetation  ves (B9) 3) s (B14) Dodor (C1) eres on Led Iron (tion in Ti (C7) a (D9) emarks)  nches):nches):nches):	as been hon indicate continuity of the continuit	rs is reverse of a nathighly disturbed. Receive wetland conditions  Seconda Surf Drai Dry- Cray ots (C3) Satu Stur (C6) X Geo X FAC	ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) frish Burrows (C8) aration Visible on Aerial Imagery (C9) atted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Disturbed, no construction poundaries (in poundaries (in poundaries) (in pound	ot a natural soil pand re-routing of indicating it is not indicating in indicating indicating in indicating indicating in	rial Imagery (B cave Surface (  Yes X Yes X X	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 B8) Other (Exp	apply) ined Lea iuna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	s area havegetation  ves (B9) 3) s (B14) Dodor (C1) eres on L ed Iron (tion in Ti (C7) a (D9) emarks)  nches): _ nches): _ nches): _	as been hon indicate continuity of the continuit	rs is reverse of a nathighly disturbed. Receive wetland conditions  Seconda Surf Drai Dry- Cray ots (C3) Satu Stur (C6) X Geo X FAC	ary Indicators (minimum of two requires ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) frish Burrows (C8) aration Visible on Aerial Imagery (C9) atted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
YDROLO Yetland Hyderimary Indica X Surface N X High War X Saturation Water Max X Sedimen Drift Dep Algal Mar Iron Deporation Inundation Sparsely Field Observ Surface Water Vater Table Saturation Processoribe Records	pot a natural soil pand re-routing of indicating it is not indicating it indicates (minimum Water (A1) indicates (Ma) indicate	f Trempealeau of relic). Landso  ors:  of one is requ  rial Imagery (B cave Surface (  Yes X Yes X Yes X  eam gauge, m	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 B8) Other (Exp	apply) ined Lea iuna (B1 tic Plant: Sulfide C khizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii Lepth (ii	ves (B9) 3) s (B14) Odor (C1) eres on L ted Iron (tion in Ti (C7) a (D9) emarks) enches):	as been hon indicate  Living Roc C4)  Illed Soils  4 0.5 0	rs is reverse of a nath nighly disturbed. Receive wetland conditions  Seconda Surf Drai Dry- Cray ots (C3) Stur (C6) X Geo X FAC	ary Indicators (minimum of two requirace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) frish Burrows (C8) aration Visible on Aerial Imagery (C9) atted or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)

normal.

# WETLAND DETERMINATION DATA FORM - Midwest Region

Applicantificion   State   S	Project/Site: Arcadia 205 Project	City/County: Arcadia/Trempealeau Sampling D					-15/2019	
Landform (hillside, terrace, etc.):    Load relief (concave, convex, none): Concave   Datum: Datum:   Datum:	Applicant/Owner:			State: WI	Sampling Po	oint:	1-2	
Signe   Sign	Investigator(s): Steve Eggers, LeeAnn Glomski, Vanes	sa Alberto	Section,	Township, Ra	inge:		·	
Signe   Sign	Landform (hillside, terrace, etc.):			Local relief (	concave, convex, non	e): Concave		
Solit Name:								
Are climatic / hydrologic conditions on the site typical for this time of year?								
Are Vegetation	·			Yes				
Are Vegetation Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophylic Vegetation Present?			-					
Hydrophytic Vegetation Present?							<u>/</u> .	_
Hydric Soil Present? Yes X No within a Wetland? Yes X No Wetland Hydrology Present? Yes X No within a Wetland? Yes X No Wetland Hydrology Present? Yes X No within a Wetland? Yes X No Wetland Hydrology Present? Yes X No within a Wetland?						•	features	, etc.
Hydric Soil Present? Yes X No within a Wetland? Yes X No Wetland Hydrology Present? Yes X No within a Wetland? Yes X No Wetland Hydrology Present? Yes X No within a Wetland? Yes X No Wetland Hydrology Present? Yes X No within a Wetland?	Hydrophytic Vegetation Present? Yes X No	<u> </u>	Is the	e Sampled A	rea			
Remarks: Landscaped turf area, recently mowed, extending from toe of floodcontrol levee to present-day channel of Turton Creek. Not normal circumstances given active management of vegetation for turf/landscaping. Not mapped by NWI/WWI-classification of PEMC determined in the field.  VEGETATION – Use scientific names of plants.  Tree Stratum (Plot size: )			withi	n a Wetland	? Yes_>	No		
Landscaped furf area, recently mowed, extending from toe of floodcontrol levee to present-day channel of Turton Creek. Not normal circumstances given active management of vegetation for turt/flandscaping. Not mapped by NWI/WWI-classification of PEMC determined in the field.  VEGETATION — Use scientific names of plants.  Vegetation of PEMC determined in the field.  VEGETATION — Use scientific names of plants.  Vegetation of PEMC determined in the field.  VEGETATION — Use scientific names of plants.  Vegetation of PEMC determined in the field.  Very all the vegetation of PEMC determined in the field.  Vegetation of PEMC determined	Wetland Hydrology Present? Yes X No	<u> </u>						
VEGETATION - Use scientific names of plants.   Not mapped by NWWWI-classification of PEMC determined in the field.								
VEGETATION - Use scientific names of plants.								nces
Absolute			appea by 144	V1/ VV VV IClas	Sincation of 1 Livio de		iu.	
Tree Stratum	VEGETATION – Use scientific names of pla		Dominant	Indicator	ı			
1	Tree Stratum (Plot size: )				Dominance Test	worksheet:		
2.   Are OBL, FACW, or FAC:   2					Number of Domina	ant Species That		
Across All Strata:   2 (B)	2.					•	2	(A)
Sapling/Shrub Stratum   (Plot size: )	3				Total Number of D	ominant Species		
Sapling/Shrub Stratum   (Plot size:   )	· · · · · · · · · · · · · · · · · · ·				Across All Strata:		2	_(B)
Sapling/Shrub Stratum	5		T-4-1 0			•	400.00/	(A (D)
1.	Cooling/Chruh Stratum /Dlat size		= I otal Cover		Are OBL, FACW, o	or FAC:	100.0%	<b>–</b> (A/B)
Total % Cover of:    Multiply by:		)			Provalence Index	workshoot:		
OBL species   47							ıltiply by	
FACW species   20   x2 =   40	3							_
FAC species   O	1					20 x 2 =	40	_
Herb Stratum (Plot size: 5' radius )   25					FAC species	0 x 3 =	0	_
1. Eleocharis acicularis       25       Yes       OBL       Column Totals:       67       (A)       87       (B)         2. Eleocharis palustris       20       Yes       OBL       Prevalence Index = B/A = 1.30       1.30         3. Echinochloa crus-galli       10       No       FACW       Hydrophytic Vegetation Indicators:         4. Lysimachia nummularia       5       No       FACW       Hydrophytic Vegetation Indicators:         5. Phalaris arundinacea       5       No       OBL       X 2 - Dominance Test is >50%         7.       3 - Prevalence Index is ≤3.0¹       4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)         9.       Problematic Hydrophytic Vegetation¹ (Explain)         10.       Problematic Hydrophytic Vegetation¹ (Explain)         1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         Woody Vine Stratum       (Plot size:)			=Total Cover		FACU species	0 x 4 =	0	_
2. Eleocharis palustris       20       Yes       OBL       Prevalence Index = B/A = 1.30         3. Echinochloa crus-galli       10       No       FACW         4. Lysimachia nummularia       5       No       FACW         5. Phalaris arundinacea       5       No       FACW         6. Persicaria hydropiper       2       No       OBL       X 2 - Dominance Test is >50%         7.       X 3 - Prevalence Index is ≤3.0¹       X 3 - Prevalence Index is ≤3.0¹       4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)         9.       Problematic Hydrophytic Vegetation¹ (Explain)       Problematic Hydrophytic Vegetation¹ (Explain)         1.       Present; unless disturbed or problematic.         Hydrophytic Vegetation       Vegetation         Vegetation       Present? Yes X No	Herb Stratum (Plot size: 5' radius )							_
3. Echinochloa crus-galli       10       No       FACW         4. Lysimachia nummularia       5       No       FACW       Hydrophytic Vegetation Indicators:         5. Phalaris arundinacea       5       No       OBL       X 2 - Dominance Test is >50%         6. Persicaria hydropiper       2       No       OBL       X 2 - Dominance Test is >50%         7.       X 3 - Prevalence Index is ≤3.0¹       4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)         9.       Problematic Hydrophytic Vegetation¹ (Explain)         1.       Problematic Hydrophytic Vegetation¹ (Explain)         ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         Hydrophytic Vegetation       Vegetation         Present?       Yes X No     Remarks: (Include photo numbers here or on a separate sheet.)  Recently mowed, before inundated condition. This is a "managed plant community." Documenting volunteer vegetation is one of the methods per	Eleocharis acicularis			OBL				<b>_</b> (B)
4. Lysimachia nummularia 5 No FACW 5. Phalaris arundinacea 5 No OBL 6. Persicaria hydropiper 7.					Prevalence Inde	ex = B/A =	1.30	_
5. Phalaris arundinacea       5       No       FACW       1 - Rapid Test for Hydrophytic Vegetation         6. Persicaria hydropiper       2       No       OBL       X 2 - Dominance Test is >50%         7.       X 3 - Prevalence Index is ≤3.0¹       4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)         9.       Problematic Hydrophytic Vegetation¹ (Explain)         10.       Problematic Hydrophytic Vegetation¹ (Explain)         1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.       Hydrophytic         Vegetation       Present?       Yes X No         Remarks: (Include photo numbers here or on a separate sheet.)       Recently mowed, before inundated condition. This is a "managed plant community." Documenting volunteer vegetation is one of the methods per								
6. Persicaria hydropiper  7.	,							
7.							egetation	
8			INO	OBL				
g data in Remarks or on a separate sheet)  10 67 =Total Cover  Woody Vine Stratum (Plot size:)  1 Total Cover  2 Total Cover  =Total Cover  Thydrophytic Vegetation (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation  Yegetation  Present? Yes X No  Remarks: (Include photo numbers here or on a separate sheet.)  Recently mowed, before inundated condition. This is a "managed plant community." Documenting volunteer vegetation is one of the methods per							Provide su	pporting
10								
Woody Vine Stratum  (Plot size:)  Hydrophytic  Vegetation Present? Yes X No  Remarks: (Include photo numbers here or on a separate sheet.)  Recently mowed, before inundated condition. This is a "managed plant community." Documenting volunteer vegetation is one of the methods per		-			Problematic H	ydrophytic Vegeta	ition <sup>1</sup> (Expl	ain)
Woody Vine Stratum 1.		67	=Total Cover		<u> </u>			
2	Woody Vine Stratum (Plot size:						, ,,	
2	1				Hydrophytic			
Remarks: (Include photo numbers here or on a separate sheet.)  Recently mowed, before inundated condition. This is a "managed plant community." Documenting volunteer vegetation is one of the methods per					_			
Recently mowed, before inundated condition. This is a "managed plant community." Documenting volunteer vegetation is one of the methods per			=Total Cover		Present? Y	es <u>X</u> No		
	, .	,						
								ber

US Army Corps of Engineers

SOIL Sampling Point: 1-2

Profile Des	cription: (Describ	e to the dep	th needed to doc	ument tl	he indica	tor or o	confirm the absence	of indicators.)
Depth	Matrix	<u> </u>	Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 3/1	75	7.5YR 4/4	15	C	M	Loamy/Clayey	
			10YR 5/1	5	D	М		
			10YR 2/2	5	D	M		
6-18	10YR 4/1		7.5YR 4/4	20	С	M	Loamy/Clayey	
	1011(4/1		10YR 5/1	2		M	Loanly/Olaycy	
			10113/1			IVI		
	oncentration, D=D	epletion, RM=	Reduced Matrix, N	/IS=Mas	ked Sand	d Grains		n: PL=Pore Lining, M=Matrix.
Hydric Soil			0		-i (O.1)			rs for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Gle					st Prairie Redox (A16)
	pipedon (A2)		Sandy Red	٠, ,				Manganese Masses (F12)
	istic (A3) en Sulfide (A4)		Stripped M Dark Surfa		9)			Parent Material (F21) Shallow Dark Surface (F22)
	d Layers (A5)		Loamy Mu		oral (E1)			er (Explain in Remarks)
	uck (A10)		Loamy Gle	•	. ,			(Explain in Nemarks)
	d Below Dark Surfa	oce (Δ11)	X Depleted N					
I — ·	ark Surface (A12)	100 (711)	X Redox Da	•	•		<sup>3</sup> Indicato	rs of hydrophytic vegetation and
	//ucky Mineral (S1)		Depleted [		` '			and hydrology must be present,
	ucky Peat or Peat (	S3)	Redox De		, ,			ss disturbed or problematic.
	Layer (if observed				( - /			'
Type:	Layer (III observed	4).						
Depth (ii	nches).						Hydric Soil Presen	t? Yes X No
Remarks:			<del></del>					<u></u>
	oil Given levee cor	struction and	re-routing of Trem	nealeau	ı River ar	nd Turto	n Creek this area has	been highly disturbed.
	J G. V G. V G. V G. G. V G. V			.poa.oao			0.00.,	a seegy a seea. a see.
HYDROLO	OGY							
Wetland Hy	drology Indicator	s.						
	cators (minimum o		ed: check all that	apply)			Seconda	ry Indicators (minimum of two required)
X Surface			Water-Sta		ives (B9)			ace Soil Cracks (B6)
	ater Table (A2)		Aquatic Fa		, ,			nage Patterns (B10)
X Saturation			True Aqua	•	,			Season Water Table (C2)
Water M	larks (B1)		Hydrogen			)	Cray	fish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized F	Rhizosph	eres on l	_iving R	oots (C3) Satu	ration Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence	of Reduc	ced Iron (	(C4)	X Stun	ted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	s (C6) X George	morphic Position (D2)
	oosits (B5)		Thin Muck	Surface	(C7)		X FAC	-Neutral Test (D5)
<del></del>	on Visible on Aeria	0 , (	<i>_</i>		, ,			
Sparsely	y Vegetated Conca	ve Surface (B	8)Other (Exp	olain in F	Remarks)			
Field Obser								
		Yes X		Depth (i	· -	9		
Water Table		Yes X			nches): _		l	
Saturation P		Yes X	No	⊔epth (i	nches): _	0	Wetland Hydrolo	gy Present? Yes X No
	pillary fringe)		nitoring wall caria	Inhotoo	provious	inanaa	tions) if available:	
Describe Re	ecorded Data (strea	ını yauye, mo	intornig well, aerla	ıı priotos	, previou	sinspec	aions), ii avaliable:	
Remarks:								
	ealeau River and Tu	urton Creek ha	ave been re-routed	l since th	ne 1930s	and a fl	ood control levee con	structed. The present-day location of
								ation is visible on 6 of 11 years of aerial
imagery spa	nning 2004-2019.	Precipitation t	hree months anteo	cedent w	as wette	r than n	ormal.	

Project/Site: Arcadia 205 Project		City/Cou	nty: Arcadia	/Trempealeau	Sampling Date:	8/14-15/2019
Applicant/Owner:				State: WI	Sampling Point:	1-3
Investigator(s): Steve Eggers, LeeAnn Glomski, Vanes	ssa Alberto	Section, 7	ownship, Ra	nge:	•	
Landform (hillside, terrace, etc.):			Local relief (d	concave, convex, none):		
Slope (%): Lat:						
Soil Map Unit Name:					ification: UPL	
Are climatic / hydrologic conditions on the site typical				No X (If no, ex	plain in Remarks.)	
Are Vegetation X , Soil X , or Hydrology X		-		Circumstances" present?		lo X
Are Vegetation, Soil, or Hydrology	."			plain any answers in Re		
SUMMARY OF FINDINGS – Attach site m					,	tures, etc.
Hydrophytic Vegetation Present? Yes N	lo X	Is the	Sampled A	rea		
	lo X		n a Wetland		No_X_	
	lo X				· <u></u>	
Remarks:		<b>I</b>				
Landscaped turf area, recently mowed, on the slope	of the levee. N	lot normal cir	cumstances	given active manageme	nt of vegetation.	
VEGETATION 11 : 65						
VEGETATION – Use scientific names of pla	Absolute	Dominant	Indicator	T		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test wo	rksheet:	
1				Number of Dominant	Species That	
2.				Are OBL, FACW, or	•	1 (A)
3.				Total Number of Don	ninant Species	
4				Across All Strata:		4 (B)
5		<del></del>		Percent of Dominant	•	
Cardinar/Charde Charters (Diet sine)		Total Cover		Are OBL, FACW, or	FAC: 2	(A/B)
Sapling/Shrub Stratum (Plot size:	)			Prevalence Index w	orkohoot:	
1				Total % Cover of		v hv·
3.				_	$\frac{1}{0} \frac{1}{x} = \frac{1}{x$	0
4.				-	20 x 2 =	40
5.				FAC species	2 x 3 =	6
	=	Total Cover		FACU species 3	30 x 4 =	120
Herb Stratum (Plot size: 5' radius )				·	0 x 5 =	0
Lysimachia nummularia	20	Yes	FACW			166 (B)
2. Trifolium repens	10	Yes	FACU	Prevalence Index	= B/A = <u>3.1</u>	9
3. Glechoma hederacea	10	Yes	FACU	Hudus abotis Vanata	tion Indicators.	
Taraxacum officinale     Plantago rugelii	10	Yes No	FACU FAC	Hydrophytic Vegeta		tation
		INO	TAC	2 - Dominance T	r Hydrophytic Vege est is >50%	tation
7.				3 - Prevalence Ir		
8.					I Adaptations <sup>1</sup> (Prov	vide supporting
9.				data in Remar	ks or on a separate	sheet)
10				Problematic Hyd	rophytic Vegetation	<sup>1</sup> (Explain)
	52	Total Cover		<sup>1</sup> Indicators of hydric s	soil and wetland hyd	drology must
Woody Vine Stratum (Plot size:	)			be present, unless di	sturbed or problema	atic.
1				Hydrophytic		
2		T-4-1-0		Vegetation		
		Total Cover		Present? Yes	No_X	_
Remarks: (Include photo numbers here or on a sepa	,	الران	otor E The	tificially wheater the end of	ion io ovelvete dife	a tha
Turf grass (Poa sp.) 60% cover. This is a "managed hydrophytic veg determination. Documenting volunte					on is excluded ifor	ı ul <del>C</del>

SOIL Sampling Point: 1-3

Depth	Matrix		Redo			. 1			_	
(inches) C	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-19	10YR 2/2	95	10YR 5/1	5	D	M	Loamy/Clayey	Fill r	material for lev	/ee
	_	· <u></u>	_		· <u></u>					
								-		
<del> </del>										
		etion, RM	=Reduced Matrix, N	/IS=Mas	ked San	d Grains.		: PL=Pore Lin		_
Hydric Soil Indica	ators:							rs for Problen	-	ioils":
Histosol (A1)	(4.0)		Sandy Gle					st Prairie Redo		
Histic Epipedo			Sandy Red					Manganese Ma		
Black Histic (A	•		Stripped M					Parent Materia		
Hydrogen Sulf	` ,		Dark Surfa					Shallow Dark		
Stratified Laye	` '		Loamy Mu	-			Othe	r (Explain in R	emarks)	
2 cm Muck (A	,	(4.4.6)	Loamy Gle							
	ow Dark Surface	(A11)	Depleted N		-		31 12 4			
Thick Dark Su			Redox Dar		` '			rs of hydrophyt	-	
Sandy Mucky		,	Depleted [			)		and hydrology i	•	nt,
	Peat or Peat (S3	)	Redox Dep	oression	is (F8)		unie	ss disturbed or	problematic.	
Restrictive Layer	r (if observed):									
Type:										
Depth (inches Remarks: Depletion (10 YR	5/1) appears to			al, not w	vetness. (	Given lev	Hydric Soil Presen		Yes	_
Depth (inches Remarks: Depletion (10 YR Furton Creek, this	5/1) appears to			al, not w	vetness. (	Given lev				No
Depth (inches Remarks: Depletion (10 YR Furton Creek, this	5/1) appears to			al, not w	vetness. (	Given lev				
Depth (inches Remarks: Depletion (10 YR Furton Creek, this	5/1) appears to s area has been			al, not w	vetness. (	Given lev				
Depth (inches Remarks: Depletion (10 YR Furton Creek, this	5/1) appears to s area has been ogy Indicators:	highly dis			vetness. (	Given lev	ee construction and		empealeau Ri	ver and
Depth (inches Remarks: Depletion (10 YR Furton Creek, this	5/1) appears to s area has been egy Indicators: s (minimum of o	highly dis	turbed.	apply)			ee construction and Seconda	ry Indicators (r	empealeau Ri	ver and
Depth (inches Remarks: Depletion (10 YR Furton Creek, this  IYDROLOGY  Wetland Hydrolo Primary Indicators Surface Wate High Water Ta	ogy Indicators: s (minimum of o	highly dis	ired; check all that a Water-Stai Aquatic Fa	apply) ined Lea uuna (B1	aves (B9)		ee construction and Seconda Surf. Drai	ry Indicators (race Soil Cracks	empealeau Ri minimum of two s (B6) (B10)	ver and
Depth (inches Remarks: Depletion (10 YR Furton Creek, this  IYDROLOGY  Wetland Hydrolo Primary Indicators Surface Wate High Water Ta Saturation (A3	5/1) appears to s area has been egy Indicators: s (minimum of our (A1) able (A2)	highly dis	ired; check all that a water-Stal	apply) ined Lea iuna (B1	aves (B9) 13) ts (B14)		ee construction and Seconda Surf. Drai	ry Indicators (race Soil Cracks nage Patterns (Geason Water	minimum of two (B10) Table (C2)	ver and
Depth (inches Remarks: Depletion (10 YR Furton Creek, this  IYDROLOGY  Wetland Hydrolo Primary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks (	5/1) appears to sarea has been by Indicators: s (minimum of our (A1) able (A2) 3) (B1)	highly dis	ired; check all that a water-Star Aquatic Fa True Aqua	apply) ined Lea luna (B1 tic Plant Sulfide (	aves (B9) 13) ts (B14) Odor (C1	)	Seconda Surfi Draii Dry- Cray	ry Indicators (race Soil Cracks nage Patterns (Season Water fish Burrows (Control of the Patterns (Control of the Pattern	minimum of two (B10) Table (C2)	ver and
Depth (inches Remarks: Depletion (10 YR Furton Creek, this  IYDROLOGY Wetland Hydrolo Primary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks ( Sediment Dep	5/1) appears to sarea has been by Indicators: s (minimum of or (A1) able (A2) 3) (B1) posits (B2)	highly dis	ired; check all that a water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea iuna (B1 tic Plant Sulfide (	aves (B9) 13) ts (B14) Odor (C1 neres on l	) Living Ro	Seconda Surfi Drai Dry- Cray ots (C3) Satu	ry Indicators (r ace Soil Cracks nage Patterns ( Season Water fish Burrows (C ration Visible c	minimum of two s (B6) (B10) Table (C2) C8) on Aerial Imag	ver and
Depth (inches Remarks: Depletion (10 YR Furton Creek, this  IYDROLOGY  Wetland Hydrolo Primary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks ( Sediment Dep Drift Deposits	ogy Indicators: (a) (B1) (B3) (B3)	highly dis	ired; check all that a water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea iuna (B1 tic Plant Sulfide ( Rhizosph of Reduc	aves (B9) 13) ts (B14) Odor (C1 neres on l	) Living Ro (C4)	Seconda Surfi Drai Dry- Cray ots (C3) Satu Stur	ry Indicators (race Soil Cracks) age Patterns (Season Water fish Burrows (Cration Visible cotted or Stressed	minimum of two s (B6) (B10) Table (C2) C8) on Aerial Imag d Plants (D1)	ver and
Depth (inches Remarks: Depletion (10 YR Furton Creek, this  IYDROLOGY  Wetland Hydrolo Primary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks ( Sediment Dep Drift Deposits Algal Mat or C	ogy Indicators: s (minimum of or (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4)	highly dis	ired; check all that a Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence a Recent Iro	apply) ined Lea iuna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc	aves (B9) 13) ts (B14) Odor (C1 neres on l ced Iron ( ction in Ti	) Living Ro (C4)	Seconda	ry Indicators (race Soil Cracks age Patterns (Season Water fish Burrows (Cration Visible control or Stressed morphic Position	minimum of two s (B6) (B10) Table (C2) C8) on Aerial Imag d Plants (D1) on (D2)	ver and
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Depth (inches Remarks: Depletion (10 YR Turton Creek, this  HYDROLOGY  Wetland Hydrolo Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks ( Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Field Observation Surface Water Pres Water Table Prese Saturation Presen (includes capillary	5/1) appears to a area has been be area (A1) able (A2) and (B1) be area (B2) (B3) Crust (B4) (B5) able on Aerial Insertated Concavers:  The area of the area of the area (B4) (B5) able on Aerial Insertated Concavers:  The area of the area of the area (B4) (B5) able on Aerial Insertated Concavers:  The area of the area of the area (B4) (B5) able on Aerial Insertated Concavers:  The area of the area of the area (B4) (B5) able on Aerial Insertated Concavers:  The area of the area of the area (B4) (B5) able on Aerial Insertated Concavers:  The area of the area of the area (B4) (B5) able on Aerial Insertated Concavers:  The area of the area of the area (B4) (B5) able on Aerial Insertated Concavers:  The area of the area (B4) (B5) (B5) (B5) (B5) (B5) (B5) (B5) (B5	nagery (B Surface (	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence ( Recent Iro Thin Muck 7) Gauge or No	apply) ined Lea iuna (B1 tic Plant Sulfide ( Rhizosph of Reduc on Reduc Surface Well Dat blain in F Depth (i Depth (i	aves (B9) 13) ts (B14) Odor (C1 neres on lection in Tiele (C7) ta (D9) Remarks) inches): _ inches): _ inches): _	) Living Ro (C4) illed Soils	Seconda Surfi Drai Dry- Cray sots (C3) Satu Stur G (C6) FAC	ry Indicators (race Soil Cracks nage Patterns (Season Water fish Burrows (Cration Visible of ted or Stressed morphic Position-Neutral Test (I	minimum of two s (B6) (B10) Table (C2) C8) on Aerial Imag d Plants (D1) on (D2) D5)	ver and
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Project/Site: Arcadia 205 Project		City/Cou	ınty: Arcadia	/Trempealeau	Sampling Date	: <u>8/14-15/2019</u>
Applicant/Owner:				State: WI	Sampling Point	: 1-4
Investigator(s): Steve Eggers, LeeAnn Glomski, Vand	essa Alberto	Section, <sup>-</sup>	Γownship, Ra	nge:	<del></del>	
Landform (hillside, terrace, etc.):			Local relief (c	oncave, convex, nor	ne): Slope	
Slope (%): Lat:						
Soil Map Unit Name:					assification: UPL	
Are climatic / hydrologic conditions on the site typica			Yes		, explain in Remarks.)	1
Are Vegetation X , Soil X , or Hydrology X		•			ent? Yes I	
Are Vegetation, Soil, or Hydrology				plain any answers in	<del></del>	<u> </u>
SUMMARY OF FINDINGS – Attach site r				-	·	atures, etc.
Hydrophytic Vegetation Present? Yes	No X	ls the	e Sampled Ar	rea		
Hydric Soil Present? Yes	No X		n a Wetland?		No X	
	No <u>X</u>					
Remarks: Slope of fill for levee. Landscaped turf area, recently	y mowed. Not n	ormal circum	ıstances giver	n active managemen	t of vegetation.	
<b>VEGETATION</b> – Use scientific names of p	lants. Absolute	Daminant	lu di a atau			
<u>Tree Stratum</u> (Plot size: )		Dominant Species?	Indicator Status	Dominance Test	worksheet:	
1.				Number of Domin	ant Species That	
2.				Are OBL, FACW,	or FAC:	1 (A)
3				Total Number of D	Dominant Species	
4				Across All Strata:	_	3 (B)
5		Total Cover		Percent of Domin	•	33.3% (A/B)
Sapling/Shrub Stratum (Plot size:		- Total Covel		Are OBL, FACW,		33.3% (A/B)
	_			Prevalence Index	v worksheet	
2.				Total % Cove		oly by:
3.				OBL species	0 x 1 =	0
4.				FACW species	10 x 2 =	20
5.				FAC species	5 x 3 =	15
		Total Cover		FACU species	35 x 4 =	140
Herb Stratum (Plot size: 5' radius )				UPL species	0 x 5 =	0
Trifolium repens	20	Yes	FACU	Column Totals:	50 (A)	175 (B)
Taraxacum officinale	10	Yes	FACU	Prevalence Ind	ex = B/A = 3.	50
3. Lysimachia nummularia	10	Yes	FACW			
4. Plantago rugelii	_ 5	No No	FAC		etation Indicators:	
5. Glechoma hederacea	_ 52	No No	FACU		t for Hydrophytic Veg	etation
6. Unknown grass		<u>No</u>			e Test is >50% e Index is ≤3.0 <sup>1</sup>	
7.					e muex is <u>≤</u> 5.0 jical Adaptations <sup>1</sup> (Pro	ovide supporting
8. 9.					narks or on a separat	
10.				Problematic H	Iydrophytic Vegetatio	n¹ (Explain)
	52 =	Total Cover			ric soil and wetland hy	
Woody Vine Stratum (Plot size:	)			•	s disturbed or problen	
1				Hydrophytic		
2				Vegetation		
	=	Total Cover		Present?	/es No_>	<u>&lt;</u>
Remarks: (Include photo numbers here or on a sep	parate sheet.)					

Turf grass (Poa sp.) with 50% areal cover, recently mowed. The managed turf grass is excluded from the hydrophytic veg determination. Documenting volunteer vegetation is one of the methods per Chapter 5 procedures to determine if hydrophytes would dominate w/o management.

SOIL Sampling Point: 1-4

Depth	Matrix		Redo	x Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	_	Remarks	
0-17	10YR 2/2	96	7.5YR 4/4	2	C	M	Loamy/Clayey	<u> </u>	Fill materials	
			10YR 5/4	2	С	M		Distino	t redox concentra	ations
	_	·								
							•			
								_		
								_		
							-	<u> </u>		
							2.	<del></del>		
		etion, RM	=Reduced Matrix, N	1S=Mas	ked Sand	d Grains.			ining, M=Matrix.	3.
Hydric Soil Indi Histosol (A1)			Sandy Gle	vod Mat	riv (S1)			past Prairie Red	ematic Hydric So	ous :
Histic Epiped	•		Sandy Red	-				on-Manganese I		
Black Histic			Stripped M					ed Parent Mater		
Hydrogen Su	` '		Dark Surfa	•	,				k Surface (F22)	
Stratified Lay			Loamy Mu		eral (F1)			ther (Explain in	, ,	
2 cm Muck (			Loamy Gle	•	, ,			inei (Expiain in	(Ciliaiks)	
	elow Dark Surface	(Δ11)	Depleted N	-						
	Surface (A12)	, (, (, , , ,	Redox Dar	,	,		<sup>3</sup> Indica	ators of hydroph	ytic vegetation ar	nd
	xy Mineral (S1)		Depleted D		` '	)		-	must be presen	
	Peat or Peat (S3	i)	Redox Der		, ,			iless disturbed	·	-,
Restrictive Lave	er (if observed):	•			. ,				·	
Type:	ci (ii obsciveu).									
Depth (inche	es).								Yes	No
							Hydric Soil Pres	ent?	169	110
Disturbed, fill ma		nstruct lev	ee. Given levee cor	nstructio	n and re-	routing c	Hydric Soil Pres			-
Disturbed, fill ma highly disturbed.		nstruct lev	ee. Given levee cor	nstructio	n and re-	routing c				
highly disturbed.		nstruct lev	ee. Given levee cor	nstructio	n and re-	routing c				
Disturbed, fill mahighly disturbed.  HYDROLOGY  Wetland Hydrol	Y logy Indicators:				n and re-	routing c	of Trempealeau Riv	er and Turton C	reek, this area h	as bee
Disturbed, fill mahighly disturbed.  HYDROLOGY  Wetland Hydrol  Primary Indicato	f logy Indicators: ors (minimum of o		ired; check all that a	apply)			of Trempealeau Riv	er and Turton C	Creek, this area h	as bee
Disturbed, fill mahighly disturbed.  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat	logy Indicators: ors (minimum of o		ired; check all that a	apply) ned Lea	ves (B9)		of Trempealeau Riv	rer and Turton C  dary Indicators  urface Soil Crac	(minimum of two	as bee
Disturbed, fill mahighly disturbed.  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water	logy Indicators: ors (minimum of o ter (A1) Table (A2)		ired; check all that a Water-Stai Aquatic Fa	apply) ned Lea una (B1	ves (B9)		of Trempealeau Riv	dary Indicators urface Soil Crac	(minimum of two ks (B6)	as bee
Disturbed, fill mahighly disturbed.  HYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (A	logy Indicators: ors (minimum of o ter (A1) Table (A2) A3)		ired; check all that a Water-Stai Aquatic Fa	apply) ned Lea una (B1 tic Plant	ves (B9) 3) s (B14)		of Trempealeau Riv	rer and Turton Condary Indicators rurface Soil Cracerainage Patterns	(minimum of two ks (B6) s (B10) er Table (C2)	as bee
Disturbed, fill mahighly disturbed.  HYDROLOGY  Wetland Hydrol  Primary Indicato  Surface Wat  High Water  Saturation (A	logy Indicators: ors (minimum of oter (A1) Table (A2) A3) s (B1)		ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen	apply) ned Lea una (B1 tic Plant Sulfide (	ves (B9) 3) s (B14) Odor (C1)	)	of Trempealeau Riv	dary Indicators urface Soil Crac rainage Patterns ry-Season Water rayfish Burrows	(minimum of two ks (B10) or Table (C2) (C8)	as bee
Disturbed, fill mahighly disturbed.  HYDROLOGY  Wetland Hydrol  Primary Indicato  Surface Wat  High Water  Saturation (A  Water Marks  Sediment De	logy Indicators: ors (minimum of oter (A1) Table (A2) A3) s (B1) eposits (B2)		ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen a	apply) ned Lea una (B1 tic Plant Sulfide (	ves (B9) 3) s (B14) Ddor (C1) eres on I	) Living Ro	Secon Signature	dary Indicators urface Soil Crac rainage Patterns y-Season Wate rayfish Burrows aturation Visible	(minimum of two ks (B6) or Table (C2) (C8) on Aerial Imagel	as bee
Disturbed, fill mahighly disturbed.  HYDROLOGY  Wetland Hydrol  Primary Indicato  Surface Wat  High Water  Saturation (A  Water Marks  Sediment De  Drift Deposit	logy Indicators: ors (minimum of oter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)		ired; check all that a  Water-Stai  Aquatic Fa  True Aqua  Hydrogen a  Oxidized R  Presence o	apply) ned Lea una (B1 tic Plant Sulfide ( thizosph of Reduc	ves (B9) 3) s (B14) Odor (C1) eres on I	) Living Ro	Secon Signature Secon Signature Sign	dary Indicators urface Soil Crac rainage Patterns ry-Season Wate rayfish Burrows aturation Visible unted or Stress	(minimum of two ks (B6) s (B10) er Table (C2) (C8) on Aerial Imager ed Plants (D1)	as bee
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Disturbed, fill mahighly disturbed.  HYDROLOGY  Wetland Hydrol  Primary Indicato  Surface Wat  High Water  Saturation (A  Water Marks  Sediment De  Drift Deposit  Algal Mat or  Iron Deposits	logy Indicators: ors (minimum of oter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5)	ne is requ	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen a Oxidized R Presence of Recent Iro Thin Muck	apply) ned Lea una (B1 tic Plant Sulfide ( thizosph of Reduc n Reduc Surface	oves (B9) 3) s (B14) Odor (C1) eres on Loed Iron (itton in Ti	) Living Ro	Secon Si Di Ci Ci Sots (C3) Si Si Ci	dary Indicators urface Soil Crac rainage Patterns ry-Season Wate rayfish Burrows aturation Visible unted or Stress	(minimum of two ks (B6) s (B10) or Table (C2) (C8) on Aerial Imagel ed Plants (D1) tion (D2)	as bee
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Disturbed, fill mahighly disturbed.  HYDROLOGY  Wetland Hydrol  Primary Indicato  Surface Wat  High Water  Saturation (A  Water Marks  Sediment De  Drift Deposit  Algal Mat or  Iron Deposits  Inundation V  Sparsely Vet	logy Indicators: ors (minimum of oter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) //isible on Aerial Ingetated Concave	ne is requ magery (B' Surface (I	ired; check all that a  Water-Stai Aquatic Fa True Aqua Hydrogen a Oxidized R Presence of Recent Iro Thin Muck Gauge or V B8) Other (Exp	apply) ned Lea una (B1 tic Plant Sulfide ( thizosph of Reduc n Reduc Surface Well Dat	ves (B9) 3) s (B14) Odor (C1) eres on I ced Iron ( tion in Ti r (C7) a (D9)	) Living Ro	Secon Si Di Ci Ci Sots (C3) Si Si Ci	dary Indicators urface Soil Crac rainage Patterns ry-Season Wate rayfish Burrows aturation Visible unted or Stress eomorphic Posi	(minimum of two ks (B6) s (B10) or Table (C2) (C8) on Aerial Imager ed Plants (D1) tion (D2)	as bee
Disturbed, fill mahighly disturbed.  HYDROLOGY  Wetland Hydrol  Primary Indicato  Surface Wat  High Water  Saturation (A  Water Marks  Sediment De  Drift Deposit  Algal Mat or  Iron Deposits  Inundation V  Sparsely Vet  Field Observati  Surface Water P	logy Indicators: ors (minimum of oter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) //isible on Aerial Ingetated Concave ions: Present? Ye	ne is requ magery (B' Surface (I	ired; check all that a  Water-Stai  Aquatic Fa  True Aqua  Hydrogen a  Oxidized R  Presence a  Recent Iro  Thin Muck  7) Gauge or V  B8) Other (Exp	apply) ned Lea una (B1 tic Plant Sulfide ( thizosph of Reduc n Reduc Surface Well Dat lain in R	ves (B9) 3) s (B14) Odor (C1) eres on I ced Iron ( tion in Ti (C7) a (D9) temarks)	) Living Ro	Secon Si Di Ci Ci Sots (C3) Si Si Ci	dary Indicators urface Soil Crac rainage Patterns ry-Season Wate rayfish Burrows aturation Visible unted or Stress eomorphic Posi	(minimum of two ks (B6) s (B10) or Table (C2) (C8) on Aerial Imager ed Plants (D1) tion (D2)	as bee
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Disturbed, fill mahighly disturbed.  HYDROLOGY  Wetland Hydrol  Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Inundation V Sparsely Vet Field Observati Surface Water P Water Table Pre Saturation Prese (includes capillar Describe Record	Iogy Indicators: ors (minimum of o ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) //sible on Aerial Ir getated Concave fons: Present? Ye esent? Ye ent? Ye ry fringe) ded Data (stream	magery (B' Surface (I s s gauge, mo	ired; check all that a  Water-Stai  Aquatic Fa  True Aqua  Hydrogen a  Oxidized R  Presence of  Recent Iro  Thin Muck  7) Gauge or N  B8) Other (Exp	apply) ned Lea una (B1 tic Plant Sulfide ( thizosph of Reduc n Reduc Surface Well Dat lain in R Depth (i Depth (i	ves (B9) 3) s (B14) Ddor (C1) eres on I ced Iron ( (C7) a (D9) temarks) nches): nches): , previous	) Living Ro (C4) Illed Soils	Secon Si Di Cots (C3) Si St St Si (C6) G Wetland Hydro	dary Indicators urface Soil Crac rainage Patterns ry-Season Wate rayfish Burrows aturation Visible unted or Stress eomorphic Posi	(minimum of two ks (B6) or Table (C2) (C8) on Aerial Imageled Plants (D1) tion (D2) (D5)	as bee
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Disturbed, fill mahighly disturbed.  HYDROLOGY  Wetland Hydrol  Primary Indicato Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Inundation V Sparsely Vet Field Observati Surface Water P Water Table Pre Saturation Prese (includes capillated Describe Record Corps modeling Remarks: Sample point is of	logy Indicators: ors (minimum of oter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) c Crust (B4) s (B5) /isible on Aerial Ingetated Concave ions: Present? Ye esent? Ye ent? Ye ory fringe) ded Data (stream shows sample po	magery (B' Surface (I s s gauge, moint is outs	ired; check all that a  Water-Stai  Aquatic Fa  True Aqua  Hydrogen a  Oxidized R  Presence o  Recent Iro  Thin Muck  7) Gauge or N  B8) Other (Exp	apply) ned Lea una (B1 tic Plant Sulfide ( thizosph of Reduc n Reduc Surface Well Dat lain in R Depth (i Depth (i I photos ed by 2-	ves (B9) 3) s (B14) Odor (C1) eres on I ced Iron ( tion in Ti (C7) a (D9) lemarks) nches): _ nches): _ previous year flood on Creek	) Living Rc (C4) Illed Soils s inspect d event.	Secon Si Di Cots (C3) St St St (C6) Gr Fr  Wetland Hydro cions), if available:	dary Indicators urface Soil Crac rainage Patterns ry-Season Wate rayfish Burrows aturation Visible unted or Stress eomorphic Posi AC-Neutral Test	(minimum of two ks (B6) or Table (C2) (C8) on Aerial Imageled Plants (D1) tion (D2) (D5)	requiii  No

Project/Site: Arcadia 205 Project		City/Cou	ınty: Arcadia	/Trempealeau	Sampling Date	: 8/14-	15/2019
Applicant/Owner:				State: WI	Sampling Point	t:	1-5
Investigator(s): Steve Eggers, LeeAnn Glomski, Vanes	sa Alberto	Section,	Township, Ra	nge:			
Landform (hillside, terrace, etc.):			Local relief (d	concave, convex, none):			
Slope (%): 0 Lat:					Datum:		
Soil Map Unit Name:				NWI classi	fication: PEMB		
Are climatic / hydrologic conditions on the site typical f			Yes	No X (If no, ex	plain in Remarks.	)	
Are Vegetation X , Soil X , or Hydrology X	significantly o	listurbed?	Are "Normal (	Circumstances" present?	Yes	No X	
Are Vegetation, Soil, or Hydrology	naturally prob	olematic?	(If needed, ex	plain any answers in Re	marks.)		_
SUMMARY OF FINDINGS – Attach site ma			ng point lo	cations, transects,	important fe	atures	, etc.
Hydric Soil Present? Yes X No	> >		e Sampled A n a Wetland		No		
Remarks: Landscaped turf area. Turf grass drowned out and rep of PEMB determined in the field.	placed by mu	dflat and volu	ınteer vegetat	tion listed below. Not ma	pped by NWI/WV	VIclassi	ification
VEGETATION – Use scientific names of pla	nts.						
	Absolute	Dominant	Indicator				
Tree Stratum (Plot size:) 1.	% Cover	Species?	Status	Dominance Test wo			
2.				Number of Dominant Are OBL, FACW, or F	•	2	(A)
3.				Total Number of Dom			<b>-</b> ` ′
4.				Across All Strata:	_	2	_(B)
5		T-4-1 0		Percent of Dominant	•	400.00/	(A (D)
Sapling/Shrub Stratum (Plot size:		=Total Cover		Are OBL, FACW, or F	-AC:	100.0%	<b>-</b> (A/B)
1	,			Prevalence Index we	orksheet:		
2.				Total % Cover o		oly by:	
3.				OBL species 1	1 x 1 =	11	_
4.					0 x 2 =	100	_
5		Total Cover		· —	2 x3= 2 x4=	<u>6</u> 0	_
Herb Stratum (Plot size: 5' radius )		- Total Cover			x4= x5=	0	-
Cyperus esculentus	25	Yes	FACW	Column Totals: 6		117	(B)
Echinochloa crus-galli	15	Yes	FACW	Prevalence Index		.86	<b>-</b> ` ′
3. Phalaris arundinacea	10	No	FACW				
4. Lindernia dubia	10	No	OBL	Hydrophytic Vegeta	ion Indicators:		
5. Plantago rugelii	2	No	FAC		Hydrophytic Veg	etation	
6. Persicaria hydropiper	1	No	OBL	X 2 - Dominance To			
7. 8.				X 3 - Prevalence In 4 - Morphological		ovido ou	nnortina
9					ks or on a separat		
10				Problematic Hydr	•	,	
	63	Total Cover		<sup>1</sup> Indicators of hydric s			
Woody Vine Stratum (Plot size:				be present, unless dis			
1				Hydrophytic			
2				Vegetation			
		=Total Cover		Present? Yes	<u>X</u> No		
Remarks: (Include photo numbers here or on a separ	,	on lo ese est l	ha mether de	or Chanter F are and	to dotamatica (CI	ا داد حمامی	
Turf grass (Poa sp.) drowned out. Documenting volun would dominate absent management.	icei vegetati	on is one of t	ne memous p	ei Onapiei 5 procedures	to determine if n	yuropriyti	<del>6</del> 5

SOIL Sampling Point: 1-5

	Matrix		Redo	x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0.5-16	10YR 3/1	80	7.5YR 4/4	10	C	M	Loamy/Clayey	0.5" thick sand layer on surface
			10YR 2/1	8	D	М		
	'		10YR 3/4	2	С	М		Distinct redox concentrations
	-							
<sup>1</sup> Type: C=Cc	ncentration, D=De	pletion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Locatior	n: PL=Pore Lining, M=Matrix.
Hydric Soil I								rs for Problematic Hydric Soils <sup>3</sup> :
Histosol (			Sandy Gle	-				st Prairie Redox (A16)
	ipedon (A2)		Sandy Red					Manganese Masses (F12)
Black His	` '		Stripped M	•	5)			Parent Material (F21)
	Sulfide (A4)		Dark Surfa		. (= 1)			Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu	•			Othe	er (Explain in Remarks)
2 cm Mud		- (444)	Loamy Gle	•	, ,			
	Below Dark Surfacturian Below Dark Surface (A12)	æ (A11)	Depleted N X Redox Dar	,	,		3Indianta	re of budraphytic vagatation and
	ucky Mineral (S1)		Depleted [		` '			rs of hydrophytic vegetation and and hydrology must be present,
	cky Peat or Peat (S	:3)	Redox Dep		, ,			ss disturbed or problematic.
	, ,	,		71 0331011	3 (1 0)		uno	33 distarbed of problematic.
	.ayer (if observed)	):						
Type:								
Donth (in	ahaa).						Undria Cail Dragon	42 Van V Na
	xed soils. Redox s		ch and then through					ras 10YR 4/3. Given levee construction
Remarks: Disturbed, mi and re-routing	ixed soils. Redox s g of Trempealeau I						and lens on surface w	
Remarks: Disturbed, mi and re-routing	ixed soils. Redox s g of Trempealeau f	River and T					and lens on surface w	
Remarks: Disturbed, mi and re-routing	ixed soils. Redox s g of Trempealeau f GY Irology Indicators	River and T	urton Creek, this are	ea has b			and lens on surface w ped.	ras 10YR 4/3. Given levee constructio
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc  Primary Indic	ixed soils. Redox s g of Trempealeau f GY Irology Indicators ators (minimum of	River and T	urton Creek, this are	ea has b	een high	ly disturt	and lens on surface wood.	ras 10YR 4/3. Given levee construction
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyce  Primary Indic  X Surface V	GY  Irology Indicators ators (minimum of Water (A1)	River and T	urton Creek, this are	apply)	een high	ly disturt	and lens on surface wood.  Seconda	ras 10YR 4/3. Given levee construction  ry Indicators (minimum of two require ace Soil Cracks (B6)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyce  Primary Indic  X Surface V  X High Wat	GY  Irology Indicators ators (minimum of Water (A1) irology (A2)	River and T	urton Creek, this are	apply) ined Lea	een high	ly disturt	and lens on surface wood.  Seconda Surface woods	ras 10YR 4/3. Given levee construction  ry Indicators (minimum of two required ace Soil Cracks (B6)  nage Patterns (B10)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc  Primary Indic  X Surface V  X High Wat  X Saturatio	GY  Irology Indicators ators (minimum of Water (A1) er Table (A2) n (A3)	River and T	urton Creek, this are  ired; check all that a water-State Aquatic Fa	apply) ined Lea iuna (B1	aves (B9) 3) s (B14)	ly disturb	and lens on surface world.  Seconda Surface world.	ras 10YR 4/3. Given levee construction  ory Indicators (minimum of two requires ace Soil Cracks (B6)  nage Patterns (B10)  Season Water Table (C2)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc  Primary Indic  X Surface V  X High Wat  X Saturatio  Water Ma	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2) n (A3) arks (B1)	River and T	urton Creek, this are ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen	apply) ined Lea uuna (B1 tic Plant Sulfide (	aves (B9) 3) ss (B14) Odor (C1)	ly disturk	sand lens on surface world.  Seconda Surface world.  Drain Dry- Cray	ras 10YR 4/3. Given levee construction  ry Indicators (minimum of two required ace Soil Cracks (B6)  nage Patterns (B10)  Season Water Table (C2)  fish Burrows (C8)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc Primary Indic X Surface V X High Wat X Saturatio Water Ma Sedimen:	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2)	River and T	urton Creek, this are ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea iuna (B1 tic Plant Sulfide (	aves (B9) 3) s (B14) Odor (C1) eres on I	ly disturb	Seconda Surface work Seconda Surface Drain Dry- Cray poots (C3) Satu	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc  Primary Indic  X Surface V  X High Wat  X Saturatio  Water Mater	GY Irology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)	River and T	urton Creek, this are  ired; check all that a  Water-Stai  Aquatic Fa  True Aqua  Hydrogen  Oxidized F  Presence	apply) ined Lea una (B1 tic Plant Sulfide ( Rhizosph of Reduce	aves (B9) 3) s (B14) Odor (C1) eres on l	ly disturb	Seconda Surface work Seconda Surface work Drain Dry- Cray Sots (C3) X Stun	ras 10YR 4/3. Given levee construction  ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc  Primary Indic  X Surface V  X High Wat  X Saturatio  Water Ma  Sediment  Drift Depr  Algal Mat	GY  Irology Indicators ators (minimum of Vater (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	River and T	wirton Creek, this are  wired; check all that:  Water-Stai  Aquatic Fa  True Aquai  Hydrogen  Oxidized Fa  Presence of Recent Iro	apply) ined Lea tuna (B1 tic Plant Sulfide ( Rhizosph of Redu n Redu n Redu	aves (B9) 3) s (B14) Odor (C1) deres on Leced Iron (ction in Ti	ly disturb	Secondar	ras 10YR 4/3. Given levee construction  ray Indicators (minimum of two required ace Soil Cracks (B6)  nage Patterns (B10)  Season Water Table (C2)  fish Burrows (C8)  ration Visible on Aerial Imagery (C9)  ted or Stressed Plants (D1)  morphic Position (D2)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc  Primary Indio  X Surface V  X High Wat  X Saturatio  Water Ma  Sedimen: Drift Depo	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	: one is requ	wirton Creek, this are  wired; check all that a  Water-Stal  Aquatic Fa  True Aqua  Hydrogen  Oxidized Fa  Presence of  Recent Iro  Thin Muck	apply) ined Lea una (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface	aves (B9) 3) s (B14) Odor (C1) leres on I ced Iron ( ction in Ti	ly disturb	Secondar	ras 10YR 4/3. Given levee construction  ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc  Primary Indic  X Surface V  X High Wat  X Saturatio  Water Ma  Sedimen: Drift Depo  Algal Mat  Iron Depo  Inundatio	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial	: one is requ	wirton Creek, this are  wired; check all that a  Water-Stai  Aquatic Fa  True Aqua  Hydrogen  Oxidized Fa  Presence of  Recent Iro  Thin Muck  7)  Gauge or N	apply) ined Lea una (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Odor (C1) teres on I ced Iron ( ction in Ti e (C7) a (D9)	ly disturb	Secondar	ras 10YR 4/3. Given levee construction  ray Indicators (minimum of two required ace Soil Cracks (B6)  nage Patterns (B10)  Season Water Table (C2)  fish Burrows (C8)  ration Visible on Aerial Imagery (C9)  ted or Stressed Plants (D1)  morphic Position (D2)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc Primary Indic X Surface V X High Wat X Saturatio Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial Vegetated Concav	: one is requ	wirton Creek, this are  wired; check all that a  Water-Stai  Aquatic Fa  True Aqua  Hydrogen  Oxidized Fa  Presence of  Recent Iro  Thin Muck  7)  Gauge or N	apply) ined Lea una (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Odor (C1) teres on I ced Iron ( ction in Ti e (C7) a (D9)	ly disturb	Secondar	ras 10YR 4/3. Given levee construction  ray Indicators (minimum of two required ace Soil Cracks (B6)  nage Patterns (B10)  Season Water Table (C2)  fish Burrows (C8)  ration Visible on Aerial Imagery (C9)  ted or Stressed Plants (D1)  morphic Position (D2)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc Primary Indic X Surface V X High Wat X Saturatio Water Ma Sedimen Drift Depo Algal Mat Iron Depo Inundatio	GY Irology Indicators ators (minimum of Vater (A1) to Deposits (B2) osits (B3) to r Crust (B4) osits (B5) in Visible on Aerial Vegetated Concavirations:	: one is requ Imagery (B e Surface (	wirton Creek, this are  water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck T) Gauge or N B8) Other (Exp	apply) ined Lea tuna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Odor (C1) eres on I ced Iron ( ction in Ti e (C7) a (D9) Remarks)	ly disturb	Secondar	ras 10YR 4/3. Given levee construction  ray Indicators (minimum of two required ace Soil Cracks (B6)  nage Patterns (B10)  Season Water Table (C2)  fish Burrows (C8)  ration Visible on Aerial Imagery (C9)  ted or Stressed Plants (D1)  morphic Position (D2)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc Primary Indic X Surface V X High Wat X Saturatio Water Ma Sedimen: Drift Depo Algal Mat Iron Depo Inundatio Sparsely  Field Observ	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial Vegetated Concav vations:	: one is requ	wirton Creek, this are  wired; check all that:  Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence of Recent Iro Thin Muck Gauge or N B8) Other (Exp	apply) ined Lea una (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Ddor (C1) deres on Lection in Tile (C7) sa (D9) Remarks)	) Living Ro (C4) Illed Soils	Secondar	ras 10YR 4/3. Given levee construction  ray Indicators (minimum of two required ace Soil Cracks (B6)  nage Patterns (B10)  Season Water Table (C2)  fish Burrows (C8)  ration Visible on Aerial Imagery (C9)  ted or Stressed Plants (D1)  morphic Position (D2)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc  Primary Indio  X Surface V  X High Wat  X Saturatio  Water Ma  Sedimen: Drift Depo Algal Mat Iron Depo Inundatio Sparsely  Field Observ  Surface Water	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial Vegetated Concav vations: er Present? Y	: one is requ Imagery (B e Surface (	ired; check all that a Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or No No No	apply) ined Lea tuna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Odor (C1) leres on Letion in Tie (C7) sa (D9) Remarks) nches):nches):	) Living Ro C4) Illed Soils	Secondar	ras 10YR 4/3. Given levee construction  ry Indicators (minimum of two required ace Soil Cracks (B6)  nage Patterns (B10)  Season Water Table (C2)  fish Burrows (C8)  ration Visible on Aerial Imagery (C9)  ted or Stressed Plants (D1)  morphic Position (D2)  -Neutral Test (D5)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc  Primary Indic  X Surface V  X High Wat  X Saturatio  Water Ma  Sedimen: Drift Depo Algal Mat Iron Depo Inundatio Sparsely  Field Observ  Surface Water  Water Table	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) to Deposits (B2) osits (B3) to r Crust (B4) osits (B5) on Visible on Aerial Vegetated Concavorations:  er Present?  Present?  Yesent?  Yesent?	Imagery (Be Surface (	ired; check all that a Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or No No No	apply) ined Lea iuna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat blain in F	aves (B9) 3) s (B14) Odor (C1) leres on Letion in Tie (C7) sa (D9) Remarks) nches):nches):	) Living Ro C4) Illed Soils	Seconda Surface work Seconda Surface Drain Dry- Cray Satu X Stun S (C6) X Geo X FAC	ras 10YR 4/3. Given levee construction  ry Indicators (minimum of two required ace Soil Cracks (B6)  nage Patterns (B10)  Season Water Table (C2)  fish Burrows (C8)  ration Visible on Aerial Imagery (C9)  ted or Stressed Plants (D1)  morphic Position (D2)  -Neutral Test (D5)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc Primary Indic X Surface V X High Wat X Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Sparsely  Field Observ Surface Water Water Table Saturation Pr (includes cap	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) it or Crust (B4) osits (B5) in Visible on Aerial Vegetated Concav vations: er Present? Present? Y esent? Y sillary fringe)	Imagery (Bee Surface (es Xes Xes X	ired; check all that a Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or No No No	apply) ined Lea iuna (B1 tic Plant Sulfide ( Rhizosph of Reduc on Reduc Surface Well Dat blain in F Depth (i Depth (i	aves (B9) 3) s (B14) Odor (C1) eres on I ced Iron ( ction in Ti e (C7) a (D9) Remarks) nches): nches): nches):	) Living Ro C4) Illed Soils	Seconda Surface work Surface wo	ras 10YR 4/3. Given levee construction  ry Indicators (minimum of two required ace Soil Cracks (B6)  nage Patterns (B10)  Season Water Table (C2)  fish Burrows (C8)  ration Visible on Aerial Imagery (C9)  ted or Stressed Plants (D1)  morphic Position (D2)  -Neutral Test (D5)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc Primary Indic X Surface V X High Wat X Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Sparsely  Field Observ Surface Water Water Table Saturation Pr (includes cap	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) it or Crust (B4) osits (B5) in Visible on Aerial Vegetated Concav vations: er Present? Present? Y esent? Y sillary fringe)	Imagery (Bee Surface (es Xes Xes X	ired; check all that a Water-Star Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence ( Recent Iro Thin Muck 7) Gauge or No	apply) ined Lea iuna (B1 tic Plant Sulfide ( Rhizosph of Reduc on Reduc Surface Well Dat blain in F Depth (i Depth (i	aves (B9) 3) s (B14) Odor (C1) eres on I ced Iron ( ction in Ti e (C7) a (D9) Remarks) nches): nches): nches):	) Living Ro C4) Illed Soils	Seconda Surface work Surface wo	ras 10YR 4/3. Given levee construction  ry Indicators (minimum of two required ace Soil Cracks (B6)  nage Patterns (B10)  Season Water Table (C2)  fish Burrows (C8)  ration Visible on Aerial Imagery (C9)  ted or Stressed Plants (D1)  morphic Position (D2)  -Neutral Test (D5)
Remarks: Disturbed, mi and re-routing  HYDROLO  Wetland Hyc Primary Indic X Surface V X High Wat X Saturatio Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely  Field Observ Surface Water Water Table Saturation Pr (includes cap Describe Reco	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial Vegetated Concavorations:  er Present?  Present?  Yesent?  Yesent?	Imagery (Bee Surface (es Xes Xes Xes Xes Xes Xes Xes Xes Xes X	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence (Recent Iro Thin Muck 7) Gauge or No	apply) ined Lea iuna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	aves (B9) 3) s (B14) Odor (C1) eres on I ced Iron ( ction in Ti e (C7) a (D9) Remarks) nches): nches): nches):	) Living Ro (C4) Illed Soils	Seconda Surface work Seconda Surface Drain Dry- Cray Satu X Stun X Stun X FAC  Wetland Hydrolo tions), if available:	ras 10YR 4/3. Given levee construction  ry Indicators (minimum of two required ace Soil Cracks (B6)  nage Patterns (B10)  Season Water Table (C2)  fish Burrows (C8)  ration Visible on Aerial Imagery (C9)  ted or Stressed Plants (D1)  morphic Position (D2)  -Neutral Test (D5)

Project/Site: Arcadia 205 Project	City/Cour	nty: Arcadia/	Ггетреаlеаи	City/County: Arcadia/Trempealeau Sampling Date: 8/14-15/2						
Applicant/Owner:			State: \	WI Sa	mpling Point:	1-6				
Investigator(s): Steve Eggers, LeeAnn Glomski, Vanessa Alberto	Section, T	ownship, Ran	ge:							
Landform (hillside, terrace, etc.):	ı	Local relief (cc	oncave, convex,	none):						
Slope (%): Lat:					ım:					
Soil Map Unit Name:			NWI							
Are climatic / hydrologic conditions on the site typical for this time of			No X (If							
Are Vegetation , Soil , or Hydrology X significantly di			rcumstances" pr			3				
Are Vegetation, Soil, or Hydrologynaturally probl			lain any answers							
SUMMARY OF FINDINGS – Attach site map showing			-		•	tures, etc.				
Hydrophytic Vegetation Present? Yes X No	Is the	Sampled Are	ea							
Hydric Soil Present? Yes No		n a Wetland?		<u> </u>	No					
Wetland Hydrology Present? Yes X No	<u> </u>									
Remarks:										
Forested plant community on opposite side of present-day Turton C visual observation of vegetation. Classified as PFO1C by NWI and			reek at this poir	nt due to dep	oth of water. Co	onducted a				
VEGETATION – Use scientific names of plants.										
Absolute	Dominant	Indicator	- · · · · · · · · · · · · · · · · · · ·							
Tree Stratum (Plot size:) % Cover	Species?	Status	Dominance To							
1. Acer pagundo		FACW	Number of Dor	•	ies That	(4)				
2. Acer negundo		FAC	Are OBL, FAC		. —	(A)				
3. Salix X fragilis		FAC	Total Number		Species	(D)				
4. Ulmus americana		FACW	Across All Stra			(B)				
5	Total Cover		Percent of Don	•	ies That	(A/B)				
	Total Cover		Are OBL, FAC	W, OI FAC.		(A/D)				
		EAC\A/	Prevalence In	day worket						
Salix interior     Salix sp.		FACW	Total % C		neet: Multiply	, hu				
3			OBL species	OVEI OI.	x 1 =					
			FACW species	,	- x1					
5.			FAC species	`	- x2=					
	Total Cover		FACU species		- x3- x4=					
Herb Stratum (Plot size: )	Total Gove.		UPL species		- x 5 =					
Phalaris arundinacea		FACW	Column Totals		- (A)	(B)				
Urtica dioica		FACW		Index = B/A		(0)				
3. Ambrosia trifida		FAC	Hovaionio	IIIUGA - Di.	. –					
Rudbeckia laciniata		FACW	Hydrophytic V	/ogetation I	ndicators:					
		TACVV		_	rophytic Veget	ation				
6.				ance Test is		allon				
				ence Test is ence Index is						
						ide supporting				
					on a separate					
9. 10.		<del></del>			tic Vegetation <sup>1</sup>	,				
	Total Cover		<sup>1</sup> Indicators of h		_					
Woody Vine Stratum (Plot size: )	Total Gove.		be present, unl							
		 		CSS GISTOING	u or problema	uo.				
1			Hydrophytic							
	Total Cover		Vegetation Present?	Yes	No					
	Total Cove.		Fiesent:							
Remarks: (Include photo numbers here or on a separate sheet.)	ank of atroom	Vieual avalur	ation is that Acor	· cacabarinu	∽ Λoor nogur	da and				
Unable to do plots and estimates of percent cover from opposite ba  Phalaris arundinacea are dominants, all of which are hydrophytes	.NK OI Sueam.	. Visual evalua	Illon is that Acci	Sacchannu	TI, Acer negun	do and				

SOIL Sampling Point: 1-6

						ator or o	confirm the absence	of indicators.)
Depth	Matr			ox Featu		. 2	<b>-</b> .	5 .
(inches)	Color (moist	) %	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
				-				
		<del></del>						
1								-
		Depletion, RM=	Reduced Matrix,	MS=Mas	ked Sand	d Grains		n: PL=Pore Lining, M=Matrix.
Hydric Soil I			Carado Cl	d M-4	i (C.4)			rs for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Gle	-				st Prairie Redox (A16)
	ipedon (A2)		Sandy Re	, ,				Manganese Masses (F12)
Black His	` '		Stripped N  Dark Surf	•	0)			Parent Material (F21)
	n Sulfide (A4)		Loamy Mi		oral (E1)			Shallow Dark Surface (F22) r (Explain in Remarks)
2 cm Mu	Layers (A5)		Loamy Gl	-				(Explain in Remarks)
	ck (A10) Below Dark Sur	face (A11)	Depleted	-				
	rk Surface (A12)		Redox Da				<sup>3</sup> Indicato	rs of hydrophytic vegetation and
	ucky Mineral (S1		Depleted			١		and hydrology must be present,
	cky Peat or Peat	-	Redox De		, ,	'		ss disturbed or problematic.
_	ayer (if observe	, ,			- ()	I		
Type:	Layer (II Observe	su).						
Depth (in	iches).		_				Hydric Soil Presen	t? Yes No
. ,							Tryunc con r resen	16316
Remarks: No soil samp	ale obtained							
NO SOII SAITIP	ne obtained.							
<b>HYDROLO</b>	GY							
Wetland Hyd	drology Indicate	ors:						
Primary Indic	ators (minimum	of one is requir	ed; check all that	apply)			Seconda	ry Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ained Lea	aves (B9)		Surfa	ace Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic F	auna (B1	3)		Drair	nage Patterns (B10)
Saturatio			True Aqua	atic Plant	s (B14)		Dry-S	Season Water Table (C2)
Water Ma			Hydrogen				·	fish Burrows (C8)
	t Deposits (B2)		Oxidized I			_	· · —	ration Visible on Aerial Imagery (C9)
	osits (B3)		Presence			'		ted or Stressed Plants (D1)
	t or Crust (B4)		Recent Iro			lled Soil	· · · · · · · · · · · · · · · · · · ·	morphic Position (D2)
	osits (B5)	ial Imaa mam / (D.7)	Thin Mucl		` '		X FAC	-Neutral Test (D5)
	on Visible on Aer	3 , .	<u> </u>		, ,			
	Vegetated Cond	ave Surface (B	8) Other (Ex	piain in F	(emarks)			
Field Observ Surface Water		Vac	No	Donth (	nahaa\.			
		Yes	No	Depth (i	_			
Water Table Saturation Pi		Yes Yes	No No	Depth (i	_		Wetland Hydrolo	gy Present? Yes X No
(includes cap		103		Dohiii (i			***Cliana Hyarolo	gy : 103611t: 163 / 140
		eam gauge mo	nitoring well aeria	al photos	. previous	s inspec	ctions), if available:	
		5	gen, aoin	. <sub>F</sub> 5100	,		,,	
Remarks:								
								structed. The present-day location of
			viously the main	channel o	of the Tre	mpeale	au River (see 1938 ae	rial photograph). Precipitation three
months ante	cedent was wette	er than normal.						

City/County: Arcadia/Trempealeau

Applicant/Owner:				State: WI Sampling Point: 2-1
Investigator(s): Steve Eggers, LeeAnn Glomski, Vanes	sa Alberto	Section, <sup>-</sup>	Township, Ra	nge:
Landform (hillside, terrace, etc.):			Local relief (d	concave, convex, none):
Slope (%): 0 Lat:				Datum:
Soil Map Unit Name:				NWI classification: PFO1C
· · · · · · · · · · · · · · · · · · ·	or this time	of year?	Voc	
Are climatic / hydrologic conditions on the site typical for		-	Yes	
Are Vegetation, Soil, or Hydrology_X_s				Circumstances" present? Yes X No No
Are Vegetation, Soil, or Hydrologyr	naturally pro	blematic?	(If needed, ex	plain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	ap showi	ng samplin	ig point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	)	Is the	e Sampled A	rea
<u>—</u>			n a Wetland	
Wetland Hydrology Present? Yes X				<del></del>
Remarks:				
	ed from oppo	osite side of cr	reek by Samp	ole Point 1-6. Both NWI and WWI mapped this area as
forested wetlands (PFO1C and T3Kw, respectively).				
VEGETATION – Use scientific names of pla	nts.			
•	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30' radius</u> )	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer negundo	40	Yes	FAC	Number of Dominant Species That
2. Acer saccharinum	20	Yes	FACW	Are OBL, FACW, or FAC: 8 (A)
3. Juglans nigra	10	No	FACU	Total Number of Dominant Species
4				Across All Strata: 8 (B)
5				Percent of Dominant Species That
	70	=Total Cover		Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius )		.,		
1. Rhamnus cathartica	<u>25</u> 5	Yes No	FAC	Prevalence Index worksheet:
Acer negundo     Ribes missouriense	2	No	FAC UPL	Total % Cover of:  OBL species  0  Multiply by:  x 1 = 0
4.		INU	<u> </u>	FACW species 124 x 2 = 248
5.				FAC species 95 x 3 = 285
·	32	=Total Cover		FACU species 10 x 4 = 40
Herb Stratum (Plot size: 5' radius )		10101 00101		UPL species 7 x 5 = 35
1. Impatiens capensis	30	Yes	FACW	Column Totals: 236 (A) 608 (B)
Lysimachia nummularia	30	Yes	FACW	Prevalence Index = B/A = 2.58
3. Persicaria virginiana	25	Yes	FAC	
4. Laportea canadensis	25	Yes	FACW	Hydrophytic Vegetation Indicators:
5. Phalaris arundinacea	10	No	FACW	1 - Rapid Test for Hydrophytic Vegetation
6. Ribes missouriense	5	No	UPL	X 2 - Dominance Test is >50%
7. Echinocystis lobata	2	No	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
8. Rudbeckia laciniata	1	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9. Arisaema dracontium	1	No	FACW	data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	129	=Total Cover		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30' radius )				be present, unless disturbed or problematic.
1. Vitis riparia	5	Yes	FACW	Hydrophytic
2				Vegetation
	5	=Total Cover		Present?
Remarks: (Include photo numbers here or on a separ	,			
Plant species observed outside of plotsTrees: Celtis	occidentalis	s-FAC, Populu	s deltoides-F.	AC, Fraxinus pennsylvanica-FACW. Shrubs: Sambucus

nigra-FAC, Viburnum lentago-FAC. Herbs: Elymus virginicus-FACW, Matteuccia struthiopteris-FACW, Humulus lupulus-FACU, Pilea pumila-FACW.

US Army Corps of Engineers

Project/Site: Arcadia 205 Project

Sampling Date: 8/14-15/2019

SOIL Sampling Point: 2-1

Profile Des	cription: (Describe t	o the dept				tor or o	confirm the a	bsence of indica	ators.)	
Depth	Matrix		Redox	x Featur						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	re	Remarks	
0-18	10YR 3/1	95	10YR 4/4	5	<u>C</u>	M	Loamy/C	layey		
							\ <u></u>			
18-22	10YR 5/3	50					Sand	ly		
	10YR 3/2	50								
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion RM=I	Reduced Matrix M	 ls=Masl	ked Sand		. 2	l ocation: PI =Po	ore Lining, M=Matr	iv
Hydric Soil		ouon, rum	TCGGGGG WIGHTX, IV	io iviasi	itou ouric	Ordino			oblematic Hydric	
Histosol			Sandy Gley	yed Mat	rix (S4)			Coast Prairie	-	
Histic Ep	oipedon (A2)		Sandy Red	lox (S5)			_	Iron-Mangane	ese Masses (F12)	
Black Hi	istic (A3)		Stripped M		3)		=	Red Parent M	/laterial (F21)	
Hydroge	en Sulfide (A4)		Dark Surfa				_	Very Shallow	Dark Surface (F2	2)
	d Layers (A5)		Loamy Mu				_	Other (Explai	n in Remarks)	
	ıck (A10)		Loamy Gle	-						
I — ·	d Below Dark Surface	(A11)	Depleted M	,	,			3		
	ark Surface (A12)		X Redox Dar		, ,		`		rophytic vegetation	
	Mucky Mineral (S1) ucky Peat or Peat (S3	`	Depleted D		,			-	ology must be pres	
		)	Redox Dep	ression	s (FO)			uniess disturt	oed or problematic	•
	Layer (if observed):									
Type: Depth (ii	nchos):						Hydric Soil	I Procent?	Yes X	No
. `							nyunc 301	i Fresent:	Tes_X	NO
Remarks:										
HYDROLO	OGY									
Wetland Hy	drology Indicators:									
	cators (minimum of o	ne is require	ed; check all that a	apply)				Secondary Indica	tors (minimum of t	wo required)
Surface	Water (A1)	-	Water-Stai	ned Lea	ves (B9)			Surface Soil (	Cracks (B6)	
High Wa	ater Table (A2)		Aquatic Fa	una (B1	3)		_	X Drainage Pat	terns (B10)	
Saturation	on (A3)		True Aquat				_	X Dry-Season V	Water Table (C2)	
Water M	larks (B1)		Hydrogen S	Sulfide (	Odor (C1)	)	_	Crayfish Burr	ows (C8)	
	nt Deposits (B2)		Oxidized R			-	oots (C3)		sible on Aerial Ima	
	posits (B3)		Presence of				_ (00)		ressed Plants (D1	)
	at or Crust (B4)		Recent Iron			lled Soil	` ′	X Geomorphic I	` '	
l — ·	oosits (B5) on Visible on Aerial Ir	nagony (B7)	Thin Muck Gauge or V		, ,		-	X FAC-Neutral	rest (D5)	
	Vegetated Concave	0 , ,			. ,					
Field Obser		Curiaco (B	o) X Other (Exp		erriarito)					
	ter Present? Yes	S	No X	Depth (i	nches):					
Water Table		s X			nches):	18				
Saturation P		s X			nches):		Wetland	Hydrology Prese	ent? Yes X	No
(includes ca	pillary fringe)				· <del>-</del>					
Describe Re	corded Data (stream	gauge, moi	nitoring well, aerial	photos	, previous	s inspec	ctions), if avail	able:		•
	the Corps shows that	this area is	s inundated by the	2-year	flood eve	nt.				
Remarks:	alaan Dhama III ii	Ossail 1		alm - "	- 4000		laad oost 10		The married to the	
	aleau River and Turto k near this sample po									
	ecedent was wetter th		inc main of			pcaic	44 1 11 VOI (300	.500 acriai priott	ograpirj. i recipitat	O.1 0.1100

Project/Site: Arcadia 205 Project		City/Co	unty: Arcadia	a/Trempealeau	Sa	ampling Date:	8/14-15/2019
Applicant/Owner:				State: \	NI Sa	ampling Point:	3-1
Investigator(s): Steve Eggers, LeeAnn Glomski, Vanessa	Alberto	Section,	Township, Ra	inge:			
Landform (hillside, terrace, etc.):			Local relief (	concave, convex, i	none):		
Slope (%):0 Lat:							
Soil Map Unit Name:					classificati	on: PEMA	
Are climatic / hydrologic conditions on the site typical for			Yes	No X (If			
Are Vegetation X , Soil X , or Hydrology X sig		•		Circumstances" pr			
Are Vegetation, Soil, or Hydrologyna				plain any answers			
SUMMARY OF FINDINGS – Attach site map			·			•	itures, etc.
Hydrophytic Vegetation Present? Yes No		ls th	e Sampled A	rea			
			in a Wetland		X	No	
Wetland Hydrology Present? Yes X No							
Remarks:	_						
Pasture, recently grazed. Sample point within a linear so vegetation per Chapter 5presumed seeding of pasture							
<b>VEGETATION</b> – Use scientific names of plant	S.						
	Absolute	Dominant	Indicator				
	% Cover	Species?	Status	Dominance Te			
1				Number of Dor Are OBL, FAC			1 (A)
2. 3.				Total Number			(/ (/
4.				Across All Stra		Сороско	3 (B)
5.				Percent of Don	ninant Spec	ies That	
<u>-</u>	=	=Total Cover	r	Are OBL, FAC	W, or FAC:	3	33.3% (A/B)
Sapling/Shrub Stratum (Plot size:)							
1				Prevalence In			h
2. 3.				Total % C OBL species	12	Multipl x 1 =	12
				FACW species		- x1=	0
5.				FAC species	0	- x2=	0
J		=Total Cover		FACU species		- x 4 =	24
Herb Stratum (Plot size: 5' radius )		- Total Covel		UPL species	5	- x5=	25
1. Bidens cernua	10	Yes	OBL	Column Totals		_ (A)	61 (B)
2. Daucus carota	5	Yes	UPL	Prevalence			
Ambrosia artemisiifolia	5	Yes	FACU	1 To Valorios	maox Bii		
4. Persicaria hydropiper	2	No	OBL	Hydrophytic V	egetation	Indicators:	
5. Cirsium vulgare	1	No	FACU		•	rophytic Vege	etation
6			17.00		ince Test is		
7.		-			nce Index i		
8.			-				vide supporting
9.						on a separate	
10.				Problemati	c Hydrophy	rtic Vegetation	n¹ (Explain)
	23	Total Cover		<sup>1</sup> Indicators of h	ydric soil ai	nd wetland hy	drology must
Woody Vine Stratum (Plot size:)				be present, unl	•	•	
1				Hydrophytic			
2				Vegetation			
	<u></u>	=Total Cover	r	Present?	Yes	No	<u> </u>
Remarks: (Include photo numbers here or on a separat Managed vegetation pastureLolium perenne and Trifol	,	s had 40% ai	real cover eac	hbut planted/see	eded specie	s are exclude	d per Chapter

5. Volunteer species can be used but caution when areal cover is low. Vegetation call inconclusive. Soils and hydrology were deciding factors.

SOIL Sampling Point: 3-1

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 3/1	50	10YR 3/2	20			Loamy/Clayey	Sand and gravel mixed in
			10YR 4/3	20				
		· <u></u>	10YR 5/2	5				
			7.5YR 4/6	5				
10-12	10YR 3/4	50					Sandy	
10-12							Sandy	
1	10YR 3/2	50				<del></del>	2	
	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil Histosol			Sandy Gle	wad Mat	riv (Q1)			s for Problematic Hydric Soils <sup>3</sup> Prairie Redox (A16)
	oipedon (A2)		Sandy Red	-				Manganese Masses (F12)
	stic (A3)		Stripped M					Parent Material (F21)
	en Sulfide (A4)		Dark Surfa	•	)			Shallow Dark Surface (F22)
	d Layers (A5)		Loamy Mu		eral (F1)			(Explain in Remarks)
	ick (A10)		Loamy Gle					(Explain in Nomano)
	d Below Dark Surfac	e (A11)	Depleted N	-				
	ark Surface (A12)	- ( ,	Redox Dai	`	,		<sup>3</sup> Indicators	s of hydrophytic vegetation and
Sandy N	lucky Mineral (S1)		Depleted [		, ,	)		nd hydrology must be present,
	icky Peat or Peat (S	3)	Redox De		, ,			s disturbed or problematic.
Restrictive	Layer (if observed):		<u> </u>					
_	.,							
Type:								
Type: Depth (i	nches):						Hydric Soil Present	? Yes <u>X</u> No
Depth (i		rminated a	t 12 inches due to c	compact	ed soils.	A 0.5-inc		
Depth (i Remarks: Disturbed, n inches. Area	nixed soils. Boring te	nd Meyers	Valley Creek has b	een re-re	outed. Sa	mple poi	h thick, uniformly colo nt is immediately dow	Yes X No
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun	nixed soils. Boring te has been graded ar dant redox, with diffu	nd Meyers	Valley Creek has b	een re-re	outed. Sa	mple poi	h thick, uniformly colo nt is immediately dow	red gravel layer encountered in u
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun	nixed soils. Boring te has been graded ar dant redox, with diffu	nd Meyers se bounda	Valley Creek has b	een re-re	outed. Sa	mple poi	h thick, uniformly colo nt is immediately dow	red gravel layer encountered in u
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun HYDROLO Wetland Hy	nixed soils. Boring te has been graded and dant redox, with diffu OGY drology Indicators:	nd Meyers se bounda	Valley Creek has b ries, in upper 6 incl	een re-renes. BP	outed. Sa	mple poi	h thick, uniformly colo nt is immediately dow ric.	red gravel layer encountered in u ngradient from large urban storm
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO Wetland Hy Primary Indi	nixed soils. Boring te has been graded ar dant redox, with diffu  DGY  drology Indicators: cators (minimum of o	nd Meyers se bounda	Valley Creek has buries, in upper 6 incl	een re-rones. BP	outed. Sa J is that s	mple poi oil is hyd	h thick, uniformly colo nt is immediately dow ric.	red gravel layer encountered in u
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO Wetland Hy Primary Indi X Surface	nixed soils. Boring te has been graded ar dant redox, with diffu  DGY  drology Indicators: cators (minimum of o	nd Meyers se bounda	Valley Creek has buries, in upper 6 incl	apply)	outed. Sa J is that s	mple poi oil is hyd	h thick, uniformly colo nt is immediately down ric.  Secondar Surfac	red gravel layer encountered in ungradient from large urban storm
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO Wetland Hy Primary Indi X Surface	nixed soils. Boring te a has been graded ar dant redox, with diffu  DGY  drology Indicators: cators (minimum of of Water (A1) ater Table (A2)	nd Meyers se bounda	Valley Creek has buries, in upper 6 incl	apply) ined Lea	outed. Sa J is that s aves (B9)	mple poi oil is hyd	h thick, uniformly colo nt is immediately dow ric.  Secondar Surfa	red gravel layer encountered in ungradient from large urban storm  y Indicators (minimum of two reques Soil Cracks (B6)
Depth (i  Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO  Wetland Hy Primary Indi X Surface High Wa X Saturation	nixed soils. Boring te a has been graded ar dant redox, with diffu  DGY  drology Indicators: cators (minimum of of Water (A1) ater Table (A2)	nd Meyers se bounda	Valley Creek has buries, in upper 6 incleases, in upper 6 inclease	apply) ined Lea	outed. Sa J is that s aves (B9) 3) s (B14)	imple poi	h thick, uniformly colo nt is immediately down ric.  Secondar Surfac X Draina Dry-S	red gravel layer encountered in ungradient from large urban storm  y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10)
Depth (i  Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO  Wetland Hy Primary Indi X Surface High Wa X Saturati Water M	nixed soils. Boring te a has been graded and dant redox, with diffuence of the desired of the de	nd Meyers se bounda	Valley Creek has buries, in upper 6 includes, in up	apply) ined Leauuna (B1 Sulfide (	outed. Sa J is that s aves (B9) 3) ss (B14) Odor (C1)	mple poi oil is hyd	h thick, uniformly colo nt is immediately dow ric.  Secondar Surfac X Draina Dry-S Crayfi	red gravel layer encountered in ungradient from large urban storm  y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2)
Depth (i  Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO  Wetland Hy Primary Indi X Surface High Wa X Saturati Water M Sedimel	DGY drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1)	nd Meyers se bounda	Valley Creek has buries, in upper 6 including in the incl	apply) ined Lea auna (B1 tic Plant Sulfide ( Rhizosph	outed. Sa J is that s aves (B9) 3) s (B14) Odor (C1) ieres on I	mple poi oil is hyd ' ' ' Living Ro	h thick, uniformly colo nt is immediately dow ric.  Secondar Surfar X Draina Dry-S Crayfi ots (C3) Satura	y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8)
Depth (i  Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO  Wetland Hy Primary Indi X Surface High Wa X Saturatie Water M Sedimeel Drift Dep	prixed soils. Boring te in has been graded and dant redox, with diffusion of the desired states and the desired states are desired states and the desired states and the desired states are desired states and the desired states are desired sta	nd Meyers se bounda	Valley Creek has buries, in upper 6 incleading in the inclead of the incleading in the incleaning in t	apply) ined Lea auna (B1 Sulfide ( Rhizosph of Reduce	outed. Sa J is that s aves (B9) 3) s (B14) Odor (C1) eres on L	mple poi oil is hyd ) Living Ro	h thick, uniformly colo nt is immediately dow ric.  Secondar Surfar X Drain: Dry-S Crayfi ots (C3) Stunte	y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO Wetland Hy Primary Indi X Surface High Wa X Saturati Water M Sedimei Drift Dep Algal Ma	prixed soils. Boring te in has been graded and dant redox, with diffusion of the desired process of the desired process (minimum of the desired process (minim	nd Meyers se bounda	valley Creek has buries, in upper 6 including in including including including in including including in including incl	apply) ined Lea una (B1 tic Plant Sulfide ( Rhizosph of Reduc	aves (B9) 3) s (B14) Odor (C1) beres on Leced Iron (ction in Ti	mple poi oil is hyd ) Living Ro	h thick, uniformly colo nt is immediately down ric.  Secondar Surfar X Draina Dry-S Crayfir ots (C3) Satura Stunte (C6) X Geom	y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (Ced or Stressed Plants (D1)
Depth (i  Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO  Wetland Hy Primary Indi X Surface High Wa X Saturatie Water M Sedimel Drift Dep Algal Ma Iron Dep Inundati	dant redox, with diffured by the second seco	nd Meyers se bounda one is requ magery (B	valley Creek has buries, in upper 6 including ired; check all that water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or value in the control of t	apply) ined Lea auna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Odor (C1) heres on I ced Iron ( ction in Ti e (C7) ha (D9)	mple poi oil is hyd ) Living Ro	h thick, uniformly colo nt is immediately down ric.  Secondar Surfar X Draina Dry-S Crayfir ots (C3) Satura Stunte (C6) X Geom	y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (Ced or Stressed Plants (D1) torphic Position (D2)
Depth (i  Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO  Wetland Hy Primary Indi X Surface High Wa X Saturatie Water M Sedimel Drift Dep Algal Ma Iron Dep Inundati	draixed soils. Boring te has been graded and dant redox, with diffusion of the draixed soils. Boring te has been graded and dant redox, with diffusion of the draixed soils. Boring the draixed soils are soils are soils are soils. Boring the draixed soils are soils are soils are soils are soils. Boring the draixed soils are	nd Meyers se bounda one is requ magery (B	valley Creek has buries, in upper 6 including ired; check all that water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or value in the control of t	apply) ined Lea auna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Odor (C1) heres on I ced Iron ( ction in Ti e (C7) ha (D9)	mple poi oil is hyd ) Living Ro	h thick, uniformly colo nt is immediately down ric.  Secondar Surfar X Draina Dry-S Crayfir ots (C3) Satura Stunte (C6) X Geom	y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (Ced or Stressed Plants (D1) torphic Position (D2)
Depth (i  Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO  Wetland Hy Primary Indi X Surface High Wa X Saturatie Water M Sedimel Drift Dep Algal Ma Iron Dep Inundati	prixed soils. Boring te in has been graded and dant redox, with diffusion of the desired process of the desired process (minimum of the desired process (minim	nd Meyers se bounda one is requ magery (B	valley Creek has buries, in upper 6 including ired; check all that water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or value in the control of t	apply) ined Lea auna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Odor (C1) heres on I ced Iron ( ction in Ti e (C7) ha (D9)	mple poi oil is hyd ) Living Ro	h thick, uniformly colo nt is immediately down ric.  Secondar Surfar X Draina Dry-S Crayfir ots (C3) Satura Stunte (C6) X Geom	y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (Ced or Stressed Plants (D1) torphic Position (D2)
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO Wetland Hy Primary Indi X Surface High Wa X Saturati Water M Sedimen Drift Dep Algal Ma Iron Dep Inundati Sparsely	dant redox, with diffunctions in the seen graded and dant redox, with diffunctions in the seen graded and dant redox, with diffunctions in the seen graded and dant redox, with diffunctions in the seen graded and dant redox, with dant dant dant dant dant dant dant dant	nd Meyers se bounda one is requ magery (B	Valley Creek has buries, in upper 6 incleading in the inclead in the inclear inclead in the inclead in the inclead in the inclear inclead in the inclear inclear inclear in the inclear inclear in the inclear inc	apply) ined Lea auna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat blain in F	aves (B9) 3) s (B14) Ddor (C1) deres on Lection in Tile (C7) a (D9) Remarks)	mple poi oil is hyd ) Living Ro	h thick, uniformly colo nt is immediately down ric.  Secondar Surfar X Draina Dry-S Crayfir ots (C3) Satura Stunte (C6) X Geom	y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (Ced or Stressed Plants (D1) torphic Position (D2)
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO Wetland Hy Primary Indi X Surface High Water M Sedimel Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Water Table	prixed soils. Boring te in has been graded and dant redox, with diffure the has been graded and dant redox, with diffure the has been graded and dant redox, with diffure the has been graded and dant redox, with diffure the has been dependent of the has been dependent on the has been graded and the	magery (Bes X	Valley Creek has buries, in upper 6 incleading in the incleaning in the incleading in the incleaning i	apply) ined Lea auna (B1 tic Plant Sulfide ( Rhizosph of Reduc Surface Well Dat blain in F	aves (B9) 3) s (B14) Odor (C1) eres on Leced Iron (ction in Tiel (C7) a (D9) Remarks) nches):nches): _	mple poi oil is hyd ) Living Ro C4) Illed Soils	h thick, uniformly colo nt is immediately down ric.  Secondar Surfar X Drain: Dry-S Crayfi ots (C3) Satura Stunte (C6) X Geom FAC-I	red gravel layer encountered in ungradient from large urban storm  y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (Ced or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5)
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO Wetland Hy Primary Indi X Surface High Wa X Saturation Sedimer Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wa Water Table Saturation F	nixed soils. Boring te a has been graded ardant redox, with diffure of the property of the pro	magery (Bes X	Valley Creek has buries, in upper 6 incleading in the incleaning in the incleading in the incleaning i	apply) ined Lea auna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat blain in F	aves (B9) 3) s (B14) Odor (C1) eres on Leced Iron (ction in Tiel (C7) a (D9) Remarks) nches):nches): _	mple poi oil is hyd ) Living Ro	h thick, uniformly colo nt is immediately down ric.  Secondar Surfar X Draina Dry-S Crayfir ots (C3) Satura Stunte (C6) X Geom	red gravel layer encountered in ungradient from large urban storm  y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (Ced or Stressed Plants (D1) torphic Position (D2) Neutral Test (D5)
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO Wetland Hy Primary Indi X Surface High Wa X Saturati Water M Sedimel Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wa Water Table Saturation F (includes ca	nixed soils. Boring te a has been graded ardant redox, with diffure of the property of the pro	magery (Bes X	Valley Creek has buries, in upper 6 incleading in the inclead in the incleading in the inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the incle	apply) ined Lea auna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	aves (B9) 3) s (B14) Odor (C1) eres on I ced Iron ( ction in Ti e (C7) a (D9) Remarks) nches): _nches): _nches):	mple poi oil is hyd ) Living Ro C4) Illed Soils	h thick, uniformly colo nt is immediately down ric.  Secondar Surfac X Draina Dry-S Crayfi ots (C3) Satura Stunte (C6) X Geom FAC-I	red gravel layer encountered in ungradient from large urban storm  y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (Ced or Stressed Plants (D1) torphic Position (D2) Neutral Test (D5)
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO Wetland Hy Primary Indi X Surface High Wa X Saturati Water M Sedimel Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wa Water Table Saturation F (includes ca	nixed soils. Boring te a has been graded ardant redox, with diffure of the property of the pro	magery (Bes X	Valley Creek has buries, in upper 6 incleading in the inclead in the incleading in the inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the incle	apply) ined Lea auna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	aves (B9) 3) s (B14) Odor (C1) eres on I ced Iron ( ction in Ti e (C7) a (D9) Remarks) nches): _nches): _nches):	mple poi oil is hyd ) Living Ro C4) Illed Soils	h thick, uniformly colo nt is immediately down ric.  Secondar Surfac X Draina Dry-S Crayfi ots (C3) Satura Stunte (C6) X Geom FAC-I	red gravel layer encountered in ungradient from large urban storm  y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (Ced or Stressed Plants (D1) torphic Position (D2) Neutral Test (D5)
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO  Wetland Hy Primary Indi X Surface High Wa X Saturati Water M Sedimen Drift Dep Algal Ma Iron Dep Inundati Sparsely  Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re	nixed soils. Boring te a has been graded ardant redox, with diffure of the property of the pro	magery (Bes X	Valley Creek has buries, in upper 6 incleading in the inclead in the incleading in the inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the inclean inclead in the incle	apply) ined Lea auna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	aves (B9) 3) s (B14) Odor (C1) eres on I ced Iron ( ction in Ti e (C7) a (D9) Remarks) nches): _nches): _nches):	mple poi oil is hyd ) Living Ro C4) Illed Soils	h thick, uniformly colo nt is immediately down ric.  Secondar Surfac X Draina Dry-S Crayfi ots (C3) Satura Stunte (C6) X Geom FAC-I	red gravel layer encountered in ungradient from large urban storm  y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (Ced or Stressed Plants (D1) torphic Position (D2) Neutral Test (D5)
Depth (i Remarks: Disturbed, n inches. Area outlet. Abun  HYDROLO  Wetland Hy Primary Indi X Surface High Wa X Saturati Water M Sedimen Drift Dep Algal Ma Iron Dep Inundati Sparsely  Field Obser Surface Wa Water Table Saturation F (includes ca Describe Remarks:	nixed soils. Boring te in has been graded and dant redox, with diffusion of the desired control of the desired con	magery (Bes Xes Xes Xes gauge, m	Valley Creek has buries, in upper 6 inclease, in upper 6 inclease inclease in upper 6 inclease in upper 6 inclease inclease in upper 6 inclease inclease inclease in upper 6 inclease	apply) ined Lea auna (B1 tic Plant Sulfide ( Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	outed. Sa J is that s J is (B9) Seres on L Ced Iron (C1) Seres on L Seres o	nmple poi oil is hyd ) Living Ro (C4) Illed Soils 2 10	h thick, uniformly colo nt is immediately down ric.  Secondar Surfac X Draina Dry-S Crayfi ots (C3) Satura Stunte (C6) X Geom FAC-I  Wetland Hydrolog ions), if available:	red gravel layer encountered in ungradient from large urban storm  y Indicators (minimum of two reques Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (Ced or Stressed Plants (D1) torphic Position (D2) Neutral Test (D5)

Project/Site: Arcadia 205 Project		City/Cou	nty: Arcadia	a/Trempealeau	Sampling Date:	8/14-15/2019
Applicant/Owner:				State: WI	Sampling Point:	3-2
Investigator(s): Steve Eggers, LeeAnn Glomski, Vanes	sa Alberto	Section, T	ownship, Ra	inge:		
Landform (hillside, terrace, etc.):		!	Local relief (d	concave, convex, none):		
Slope (%): 0 Lat:					Datum:	
Soil Map Unit Name:					fication: PEMA	
Are climatic / hydrologic conditions on the site typical fo	or this time o	of year?	Yes	No X (If no, exp	olain in Remarks.)	
Are Vegetation, SoilX_, or Hydrology_X_s	significantly			Circumstances" present?		
Are Vegetation, Soil, or Hydrologyı			If needed, ex	κplain any answers in Rer	marks.)	
SUMMARY OF FINDINGS – Attach site ma			g point lo	cations, transects,	important fea	itures, etc.
Hydric Soil Present? Yes X No	o		Sampled A		No	
Remarks: Pasture, recently grazed. Linear swale that connects of field. Managed vegetation is not normal circumstance		lley Creek. Sw	ale 12 feet w	vide at this point. NWI cla	ss of PEMA deterr	mined in the
<b>VEGETATION</b> – Use scientific names of pla	nts.	_	_		_	
Tree Stratum (Plot size: )	Absolute	Dominant	Indicator	Dominance Test wor	-lahaati	
Tree Stratum (Plot size:)  1.	% Cover	Species?	Status	Number of Dominant		
2.				Are OBL, FACW, or F	•	1 (A)
3.				Total Number of Dom		
4.				Across All Strata:	·	1 (B)
5		<del></del>		Percent of Dominant	•	00′ (A/D)
Sapling/Shrub Stratum (Plot size:	\ <del></del>	=Total Cover		Are OBL, FACW, or F	AC: 10	00.0% (A/B)
1.	,			Prevalence Index wo		
2.				Total % Cover of		y by:
3.				OBL species 6		67
4.				FACW species 2	2 x 2 =	4
5.				FAC species 0	x 3 =	0
		=Total Cover		FACU species		0
Herb Stratum (Plot size: 7' x 11')				UPL species 0		0
Persicaria hydropiper	60	Yes	OBL	Column Totals: 69		71 (B)
2. Schoenoplectus tabernaemontani	5	No No	OBL	Prevalence Index	= B/A = <u>1.0</u>	3
3. Juncus effusus	2	No	OBL	11 1 minutes Vanadad		
4. Echinochloa crusgalli	2	No No	FACW	Hydrophytic Vegetat		4-41
5 6.				X 2 - Dominance Te	Hydrophytic Vege	tation
_				X 3 - Prevalence Inc		
•					dex is ≤3.0 Adaptations¹ (Prov	vide supporting
9.					s or on a separate	
10.					ophytic Vegetation	· ·
	69	=Total Cover		<sup>1</sup> Indicators of hydric s		
Woody Vine Stratum (Plot size:	)			be present, unless dis		
1.				Hydrophytic		
2.				Vegetation		
		=Total Cover		Present? Yes	X No	
Remarks: (Include photo numbers here or on a separ	rate sheet.)			•		
Vegetation could still be identified as grazing was not			ontrol mix spe	ecies, if previously preser	nt, had been drowr	ned out and

SOIL Sampling Point: 3-2

Color (moist)   %   Color (moist)   %   Texture   Remarks	Depth	Matrix		Redo	x Featur	es			
10YR 8/2   2   D   M   Damy/Clayey   Mixed with pea to 3-inch gravel size	(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Thydric Soill indicators:  Histoscipledon (A2)  Sandy Gleyed Matrix (S4)  Histoscipledon (A2)  Sandy Redox (S5)  Iron-Manganese Masses (F12)  Black Histo (A3)  Black Histo (A3)  Black Histo (A3)  Stripped Matrix (S8)  Red Parent Material (E21)  Hydrogen Stuffice (A4)  Dark Surface (S7)  Very Shalle Doark Surface (F22)  Stratified Layers (A5)  Loamy Mucky Mineral (F1)  Depleted Below Dark Surface (A11)  Depleted Dark Surface (F3)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Som Mucky Peat or Peat (S3)  Redox Depressions (F8)  Type:  Depth (inches):  Hydric Soil Present?  Yes X No  Permarks:  Area has been graded and filled in the past, most recently associated with re-routing Meyers Valley Creek. Compacted gravel layer near surface. Took multiple probes to find a spot where a soil sample could be taken. Boring was terminated at 9 inches due to compaction.  **YOROLOGY**  Water A12)  Water Marks (B1)  Surface Water (A1)  Water Marks (B1)  Surface Water (A1)  Water Marks (B1)  Surface Water (A1)  Py-Season Water Table (C2)  Oxidized Rizospheres on Living Roots (C3)  Surface Soil Cracks (B6)  X Drainage Patterns (B10)  X Surface Water (A1)  Py-Season Water Table (C2)  Defit Deposits (B3)  Presence of Reduced Inches):  Depth (inches):  Secondary Indicators (minimum of non erall magery (C9)  Surface Water Present?  Yes X No  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Water Marks (B1)  Surface Water Present?  Yes X No  Depth (inches):  Depth (inches):  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:  Remarks:	0-9	10YR 3/1	90	7.5YR 4/4	8	_ C_	M	Loamy/Clayey	Mixed with pea to 3-inch gravel sizes
Hydric Soll Indicators (Problematic Hydric Solls*: Histosol (A1)				10YR 6/2	2		М		
Hydric Soll Indicators (Problematic Hydric Solls*: Histosol (A1)									
Hydric Soll Indicators (Problematic Hydric Solls*: Histosol (A1)									
Hydric Soll Indicators (Problematic Hydric Solls*: Histosol (A1)									
Hydric Soll Indicators (Problematic Hydric Solls*: Histosol (A1)									
Hydric Soll Indicators (Problematic Hydric Solls*: Histosol (A1)			—						
Hydric Soll Indicators (Problematic Hydric Solls*: Histosol (A1)	1								
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks)  2 cm Muck (A10) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A12) X Redox Dark Surface (F6) Sandy Mucky Mineral (S11) Depleted Dark Surface (F7) wetland Hydrology must be present, 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks: Area has been graded and filled in the past, most recently associated with re-routing Meyers Valley Creek. Compacted gravel layer near surface. Took multiple probes to find a spot where a soil sample could be taken. Boring was terminated at 9 inches due to compaction.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) X Saturation (A3) True Aquatic Plants (B14) Pydrogen Sulfide (A2) Aquatic Fauna (B13) X Saturation (A3) True Aquatic Plants (B14) Pydrogen Sulfide Odor (C1) Agal Mat or Crust (B4) Recent from Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Filed Observations: Surface Water Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches):			letion, RM=	Reduced Matrix, N	1S=Mas	ked Sand	d Grains.		•
Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Biack Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Dark Surface (F22) Other (Explain in Remarks) Other (Explain in Remarks (Explain in Remarks (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks (Explain in Remarks (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks (Explain in Remarks) Other (Explain in Remar	-			Sandy Cla	uad Mat	iv (C4)			-
Slack Histic (A3)					-				
Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Commy Mucky (A10) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (A11) Depleted Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Some Mucky Peat or Peat (S3) Redox Depressions (F8)  Restrictive Layer (if observed): Type: Depth (inches):  Pepth (inches):  Pepth (inches):  Hydric Soil Present?  Wetand Hydrology Indicators:  Hydric Soil Present?  Wetand Hydrology Indicators:  Hydricators (minimum of one is required; check all that apply) Saturation (A3)  X High Water Table (A2) Aquatic Fauna (B13) X Saturation (A3)  True Aquatic Flants (B14) Water Marks (B1) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Dirit Deposits (B3) Algal Mat or Crust (B4) Reserved Water (A1) Reserved Water (A1) Reserved Fresent? Reserved Fresent Fresent? Reserved Fresent Fresent? Reserved Fresent Fresent? Reserved Fresent Fresent? Reserved Fresent Fresent? Reserved Fresent Fresent Frese									-
Statified Layers (A5)		, ,			•	3)			• •
2 cm Muck (A10) Depleted Befow Dark Surface (A11) Depleted Befow Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Second Mucky Peat or Peat (S3) Redox Depressions (F8)  Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A12) X Saturation (A3) True Aquatic Plants (B13) Ayaltif Water Table (A2) Surface Water (B1) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Resonance (B8) Surface Soil Crack (B9) Surface Soil Cracks (B1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Sparsely Vegetated Concave Surface (B8) Surface (C7) Subtract Note of Reduced Iron (C4) Spatial reference (C8) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) Surface (C7) Spatial reference (C8) Surface Valuer Table (C9) Sparsely Vegetated Concave Surface (B8) Surface (C7) Spatial reference (C7) Spatial referenc		` ,				eral (F1)			
Depleted Below Dark Surface (A11)					•	, ,			CApian in Remarks)
Thick Dark Surface (A12)			(A11)		-				
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches):    Hydric Soil Present? Yes X No			, (, (, , ,		`	,		<sup>3</sup> Indicato	ors of hydrophytic vegetation and
S cm Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic.  Restrictive Layer (if observed):		,				` '	)		
Type: Depth (inches): Hydric Soil Present? Yes X No Remarks: Area has been graded and filled in the past, most recently associated with re-routing Meyers Valley Creek. Compacted gravel layer near surface. Took multiple probes to find a spot where a soil sample could be taken. Boring was terminated at 9 inches due to compaction.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) X Surface Water (A1) X Surface Water (A1) X Saturation (A3) X Drainage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Iron Deposits (B5) Thin Muck Surface (C7) Iron Deposits (B5) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes X No Depth (inches): Under Soil Present? Yes X No Wetland Hydrology Present? Yes X No Depth (inches): Under Soil Present? Yes X No Depth (inches): Under Soil Present? Yes X No Depth (inches): Under Soil Present? Yes X No Depth (inches): Under Table Present? Yes X No Depth (inches): Under Soil Present? Yes X No Wetland Hydrology Present? Yes X No Wetland Hydrolo			3)						
Type: Depth (inches): Hydric Soil Present? Yes X No Remarks: Area has been graded and filled in the past, most recently associated with re-routing Meyers Valley Creek. Compacted gravel layer near surface. Took multiple probes to find a spot where a soil sample could be taken. Boring was terminated at 9 inches due to compaction.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) X Surface Water (A1) X Surface Water (A1) X Saturation (A3) X Drainage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Iron Deposits (B5) Thin Muck Surface (C7) Iron Deposits (B5) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes X No Depth (inches): Under Soil Present? Yes X No Wetland Hydrology Present? Yes X No Depth (inches): Under Soil Present? Yes X No Depth (inches): Under Soil Present? Yes X No Depth (inches): Under Soil Present? Yes X No Depth (inches): Under Table Present? Yes X No Depth (inches): Under Soil Present? Yes X No Wetland Hydrology Present? Yes X No Wetland Hydrolo	Restrictive L	.ayer (if observed):							
Remarks: Area has been graded and filled in the past, most recently associated with re-routing Meyers Valley Creek. Compacted gravel layer near surface. Took multiple probes to find a spot where a soil sample could be taken. Boring was terminated at 9 inches due to compaction.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  X Surface Water (A1)  X Surface Water (A1)  Water-Stained Leaves (B9)  X Saturation (A3)  True Aquatic Fauna (B13)  X Saturation (A3)  True Aquatic Plants (B14)  Dry-Season Water Table (C2)  Water Marks (B1)  Algal Mat or Crust (B4)  Algal Mat or Crust (B4)  Innundation Visible on Aerial Imagery (B7)  Innundation Visible on Aerial Imagery (B8)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes X No Depth (inches):  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes X No Depth (inches):  Other (Explain in Remarks)  Remarks:  Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months									
Remarks: Area has been graded and filled in the past, most recently associated with re-routing Meyers Valley Creek. Compacted gravel layer near surface. Took multiple probes to find a spot where a soil sample could be taken. Boring was terminated at 9 inches due to compaction.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  X Surface Water (A1)  X Surface Water (A1)  Water-Stained Leaves (B9)  X Saturation (A3)  True Aquatic Fauna (B13)  X Saturation (A3)  True Aquatic Plants (B14)  Dry-Season Water Table (C2)  Water Marks (B1)  Algal Mat or Crust (B4)  Algal Mat or Crust (B4)  Innundation Visible on Aerial Imagery (B7)  Innundation Visible on Aerial Imagery (B8)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes X No Depth (inches):  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes X No Depth (inches):  Other (Explain in Remarks)  Remarks:  Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months	Depth (in	ches):						Hydric Soil Presen	nt? Yes X No
Area has been graded and filled in the past, most recently associated with re-routing Meyers Valley Creek. Compacted gravel layer near surface. Took multiple probes to find a spot where a soil sample could be taken. Boring was terminated at 9 inches due to compaction.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  X Surface Water (A1)  X Surface Water (A2)  Aquatic Fauna (B13)  X Drainage Patterns (B10)  X Saturation (A3)  True Aquatic Plants (B14)  Dry-Season Water Table (C2)  Water Marks (B1)  Adjustic Fauna (B13)  Fresence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes X No Depth (inches): 0  Wetland Hydrology Present? Yes X No De	Remarks:								
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required X Surface Water (A1)  Water-Stained Leaves (B9)  X High Water Table (A2)  Aquatic Fauna (B13)  X Drainage Patterns (B10)  X Saturation (A3)  True Aquatic Plants (B14)  Dry-Season Water Table (C2)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes X No Depth (inches): 0  Wetland Hydrology Present? Yes X No Depth (inches): 0  Wetland Hydrology Present? Yes X No Depth (inches): 0  Wetland Hydrology Present? Yes X No Depth (inches): 0  Wetland Hydrology Present? Yes X No Depth (inches): 0  Remarks:  Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months	Took marapie	, proboo to find a op-	or whole u	ooii oumpie oodia k	o takon	Donnig	wao tem		io to compaction.
Primary Indicators (minimum of one is required; check all that apply)  X Surface Water (A1)	HYDROLO	GY							
X Surface Water (A1)	Wetland Hyd	Irology Indicators:							
X High Water Table (A2) X Saturation (A3) X Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes X No Depth (inches): 2 Water Table Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks: Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months	Primary Indic	ators (minimum of o	ne is requi	red; check all that a	apply)			Seconda	ary Indicators (minimum of two required)
X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2)  Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)  Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)  Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)  Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2)  Iron Deposits (B5) Thin Muck Surface (C7) X FAC-Neutral Test (D5)  Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)  Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes X No Depth (inches): 2  Water Table Present? Yes X No Depth (inches): 0  Saturation Present? Yes X No Depth (inches): 0  Wetland Hydrology Present? Yes X No No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:  Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months	X Surface V	Vater (A1)		Water-Stai	ned Lea	aves (B9)			` ,
Water Marks (B1)									
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:  Surface Water Table Present?  Yes X  No  Depth (inches):  Saturation Visible on Aerial Imagery (B7)  Saturation Present?  Yes X  No  Depth (inches):  Other (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Stunted or Stressed Plants (D1)  X  Geomorphic Position (D2)  X  FAC-Neutral Test (D5)  A FAC-Neutral Test (D5)  Depth (inches):  Depth (inches):  Other (Explain in Remarks)  Wetland Hydrology Present?  Yes X  No  No  No  Remarks:  Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months									
Drift Deposits (B3)		, ,				-			
Algal Mat or Crust (B4)							-		
Iron Deposits (B5)							,		
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)  Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes X No Depth (inches): 2  Water Table Present? Yes X No Depth (inches): 0  Saturation Present? Yes X No Depth (inches): 0  Wetland Hydrology Present? Yes X No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:  Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months							ilea Soil	` ′ —	' '
Sparsely Vegetated Concave Surface (B8)Other (Explain in Remarks)  Field Observations:  Surface Water Present?			magery (Bi			, ,		<u></u>	-Neutral Test (D3)
Field Observations:  Surface Water Present? Yes X No Depth (inches): 2  Water Table Present? Yes X No Depth (inches): 0  Saturation Present? Yes X No Depth (inches): 0  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:  Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months			0 , (	<i></i>					
Surface Water Present? Yes X No Depth (inches): 2 Water Table Present? Yes X No Depth (inches): 0 Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks: Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months				<u> </u>		,			
Water Table Present? Yes X No Depth (inches): 0 Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks: Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months			s X	No	Depth (i	nches):	2		
Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:  Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months						· -			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:  Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months						′ =	0	Wetland Hydrolo	gy Present? Yes X No
Remarks:  Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months	(includes cap	illary fringe)				_		-	
Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months	Describe Rec	corded Data (stream	gauge, mo	onitoring well, aeria	l photos	, previou	s inspec	tions), if available:	
Man-made, linear swale in vicinity of the original channel of Myers Valley Creek, which has been re-routed. Precipitation three months	Remarke:								
		near swale in vicinit	y of the ori	ginal channel of My	ers Vall	ey Creek	, which I	nas been re-routed. F	Precipitation three months
	-		•	,		,			•

Project/Site: Arcadia 205 Project		City/Cour	nty: Arcadia	/Trempealeau	Sampling Date:	8/14-15/2019
Applicant/Owner:				State: WI	Sampling Point:	3-3
Investigator(s): Steve Eggers, LeeAnn Glomski, Vanessa	a Alberto	Section, T	ownship, Ra	nge:		·
Landform (hillside, terrace, etc.):		!	Local relief (d	concave, convex, none):		
Slope (%):0 _ Lat:					Datum:	
Soil Map Unit Name:				NWI classif	fication: PEMA	
Are climatic / hydrologic conditions on the site typical for	r this time c	of year?	Yes	No X (If no, exp	lain in Remarks.)	
Are Vegetation X , Soil X , or Hydrology X si	gnificantly o		·	Circumstances" present?		
Are Vegetation, Soil, or Hydrologyna	aturally prol	blematic? (	If needed, ex	plain any answers in Rer	marks.)	
SUMMARY OF FINDINGS – Attach site ma	p showir	ng samplin	g point lo	cations, transects,	important fea	atures, etc.
Hydric Soil Present? Yes X No			Sampled An		No	
Remarks: Pastured area, recently grazed. Middle portion of swale of PEMA determined in the field. Wetland swale determined in the field.	nined to be		•		ed by NWI/WWI	classification
<b>VEGETATION</b> – Use scientific names of plan			,			
Tree Stratum (Plot size: )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor	rksheet:	
1	70 00111	<u> </u>		Number of Dominant S Are OBL, FACW, or F	Species That	1 (A)
3. 4.				Total Number of Domi		1 (B)
5.		=Total Cover		Percent of Dominant S Are OBL, FACW, or F	•	00.0% (A/B)
Sapling/Shrub Stratum (Plot size:)						
1				Prevalence Index wo		<del>_</del>
2.				Total % Cover of		
3. 4.				OBL species 6 FACW species 70		140
5.				FACW species 70 FAC species 0		0
J		=Total Cover		FACU species 0		0
Herb Stratum (Plot size: 7' x 11' )				UPL species 0		0
1. Phalaris arundinacea	70	Yes	FACW	Column Totals: 76	6 (A)	146 (B)
2. Persicaria hydropiper	6	No	OBL	Prevalence Index :	= B/A = 1.9	92
3					<u> </u>	
4				Hydrophytic Vegetat		
5.				1 - Rapid Test for X 2 - Dominance Te		etation
6 7.				X 3 - Prevalence Inc		
				4 - Morphological		wide sunnorting
9.					s or on a separate	
10.				Problematic Hydro		•
	76	=Total Cover		<sup>1</sup> Indicators of hydric so		
Woody Vine Stratum (Plot size:)				be present, unless dis	turbed or problem	natic.
1				Hydrophytic		
2		=Total Cover		Vegetation Present? Yes	Y No	
		= Fotal Cover		Present 169	<u>X</u> No	
Remarks: (Include photo numbers here or on a separa Less than 1 percent cover: unknown forb and an unkno	own mustaro		ıre/erosion c	ontrol mix speciesLoliur	n perenne with 10	)% coverwas

SOIL Sampling Point: 3-3

Profile Desc	cription: (Describe	o the dep	th needed to doc	ument th	ne indica	tor or o	confirm the absence o	of indicators.)		
Depth	Matrix		Redo	x Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	F	Remarks	
0-11	10YR 3/1	80	7.5YR 4/4	20	C	М	Loamy/Clayey			
11-12	10YR 3/1	80	10YR 4/4	15	С	М	Loamy/Clayey	Higher % sa	and than first	layer
			10YR 6/2	5	D	M				
										-
1			Dada al Matria	40. Marsi			21 +	Di Dana Linina	. NA NA-4-5-	
Hydric Soil	oncentration, D=Depl	etion, Rivi=	Reduced Matrix, I	vi5=iviasi	ked Sand	Grains		: PL=Pore Lining		ile <sup>3</sup> ·
Histosol			Sandy Gle	ved Mat	riy (S4)			t Prairie Redox (/	-	
	pipedon (A2)		Sandy Red	-	IIX (O4)			Manganese Mass		
Black His			Stripped M		3)			Parent Material (F		
	n Sulfide (A4)		Dark Surfa	•	• /			Shallow Dark Su	•	
	Layers (A5)		Loamy Mu		eral (F1)			(Explain in Rem		
2 cm Mu			Loamy Gle	-	, ,				,	
Depleted	l Below Dark Surface	(A11)	Depleted N	Matrix (F	3)					
Thick Da	rk Surface (A12)		X Redox Da	rk Surfac	e (F6)		<sup>3</sup> Indicator	s of hydrophytic	vegetation ar	nd
Sandy M	lucky Mineral (S1)		Depleted [	Dark Sur	face (F7)		wetla	nd hydrology mu	st be presen	t <b>,</b>
5 cm Mu	cky Peat or Peat (S3	Redox De	pression	s (F8)		unless disturbed or problematic.				
Restrictive I	Layer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Present	? \	/es <u>X</u>	No
Remarks:										
Boring terming	nated at 12" due to so	oil compact	ion. Area has bee	n graded	l in the p	ast and	work was done to re-ro	oute Myers Valley	/ Creek.	
LIVEROLO	201									
HYDROLO										
_	drology Indicators:									
-	cators (minimum of o	ne is requii			(5.0)			y Indicators (min		<u>required)</u>
X Surface			Water-Sta					ce Soil Cracks (E	•	
	ter Table (A2)		Aquatic Fa	•	,			age Patterns (B1	-	
X Saturation	arks (B1)		True Aqua Hydrogen					Season Water Ta ish Burrows (C8)	` ,	
	it Deposits (B2)		Oxidized F					ation Visible on A		v (C9)
	osits (B3)		Presence			-		ed or Stressed P	_	<b>y</b> (30)
	t or Crust (B4)		Recent Iro					norphic Position (		
	osits (B5)		Thin Muck	Surface	(C7)		· · ·	Neutral Test (D5		
Inundation	on Visible on Aerial Ir	nagery (B7	) Gauge or	Well Dat	a (D9)					
Sparsely	Vegetated Concave	Surface (B	8) Other (Exp	olain in R	emarks)					
Field Obser	vations:									
Surface Wat	er Present? Ye	s <u>X</u>	No	Depth (i	nches): _	1				
Water Table	Present? Ye	s X	No	Depth (i	nches):	3				
Saturation P	resent? Ye	s <u>X</u>	No	Depth (i	nches): _	0	Wetland Hydrolog	gy Present? Y	es X	No
(includes cap										
Describe Re	corded Data (stream	gauge, mo	nitoring well, aeria	l photos	, previous	sinspec	ctions), if available:			
Remarks:										
	wale constructed in v	icinity of th	e original channel	of Mver	s Vallev (	Creek s	since re-routed. Precipi	tation three mont	hs antecede	nt was
wetter than r				2y 310	y ·	, c				
i e										

Project/Site: Arcadia 205 Project		City/Cou	nty: Arcadia	a/Trempealeau	Sampling Da	te: <u>8/14</u>	-15/2019
Applicant/Owner:				State: WI	Sampling Poi	nt:	3-4
Investigator(s): Steve Eggers, LeeAnn Glomski, Vanes	ssa Alberto	Section, T	Township, Ra	ange:			
Landform (hillside, terrace, etc.):			Local relief (	concave, convex, none)	)I		
Slope (%):0 Lat:					Datum:		
Soil Map Unit Name:					sification: UPL		
Are climatic / hydrologic conditions on the site typical f	or this time o	f year?	Yes	No X (If no, e	xplain in Remarks	s.)	
Are Vegetation X , Soil X , or Hydrology X	significantly o	disturbed? A	Are "Normal (	Circumstances" present	? Yes	No X	
Are Vegetation , Soil , or Hydrology	naturally prob	olematic? (	If needed, ex	plain any answers in R	emarks.)		_
SUMMARY OF FINDINGS – Attach site m			g point lo	cations, transects	s, important f	eatures	s, etc.
Hydric Soil Present? Yes X N	o_X o o_X		Sampled A		No_X_		
Remarks: Pasture, recently grazed. Sample point near outlet of per Chapter 5volunteer species are non-hydrophyte	stormsewer				le Point 3-1. Man	aged veg	jetation
<b>VEGETATION</b> – Use scientific names of pla	ants.						
Tree Stratum (Plot size: )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test w	orkehoot:		
1. (Flot size)	% Cover	Species?	Status	Number of Dominan			
2.				Are OBL, FACW, or	'	0	(A)
3.				Total Number of Do	minant Species		_
4.				Across All Strata:	_	2	(B)
5(Dlat size.	=	=Total Cover		Percent of Dominan Are OBL, FACW, or	•	0.0%	(A/B)
Sapling/Shrub Stratum (Plot size:1.	)			Prevalence Index v	worksheet:		
2.				Total % Cover		tiply by:	
3.				OBL species	0 x 1 =	0	_
4.				FACW species	0 x 2 =	0	_
5				FAC species	0 x 3 =	0	_
Harb Christian (Diet sine) Flanding		=Total Cover		· —	20 x 4 = _	80	_
<u>Herb Stratum</u> (Plot size: <u>5' radius</u> )  1. <i>Cirsium arvense</i>	15	Yes	FACU	UPL species Column Totals:	$\frac{0}{20}$ x 5 =	80	— (B)
Taraxacum officinale	5	Yes	FACU	Prevalence Index	`	4.00	_(D)
3.							_
4.				Hydrophytic Vegeta	ation Indicators:		
5					or Hydrophytic Ve	getation	
6.				2 - Dominance			
7				3 - Prevalence I	ndex is ≤3.01 al Adaptations¹ (F	Provido o	ınnortino
8 9.					ar Adaptations (F irks or on a separ		
9. 10.					drophytic Vegetat		•
Woody Vine Stratum (Plot size:	20	Total Cover		<sup>1</sup> Indicators of hydric be present, unless d	soil and wetland	hydrology	,
1				Hydrophytic			
2		<del></del>		Vegetation			
		=Total Cover		Present? Yes	s No_	<u> </u>	
Remarks: (Include photo numbers here or on a sepa Common components of pasture/erosion control see		oa annua and	Lolium pere	nne each had 40% area	al coverbut plan	ted/seede	∍d

cover prompts caution. Determination was that--in the absence of management--vegetation would not be hydrophytic

species are excluded from the hydrophytic vegetation determination per Chapter 5 procedures. Volunteer species can be used, but very low areal

SOIL Sampling Point: 3-4

Profile Desc Depth	cription: (Describe to Matrix	to the depth		ument tox Featur		tor or o	confirm the absen	ice of indicato	rs.)	
(inches)	Color (moist)	%	Color (moist)	% r eatui	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
									Remarks	
0-10	10YR 3/2	75	7.5YR 4/4	25	<u>C</u>	<u>M</u>	Loamy/Clayey	<u>'</u>		
10-12	2.5Y 5/4	65	10YR 4/2	30			Sandy	_		
			7.5YR 4/4	5	С	M				
			7.511( 4/4			IVI				
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion RM=F	Reduced Matrix	MS=Mas	ked Sand			ution: PI =Pore	Lining, M=Matr	i <b>y</b>
Hydric Soil		ouon, rum r	toddocd Matrix,	IVIO IVIGO	ikou ourie	Oranio			lematic Hydric	
Histosol			Sandy Gle	eved Mat	trix (S4)			coast Prairie Re	-	
	oipedon (A2)		Sandy Re	-				on-Manganese		
Black Hi			Stripped N	` '				Red Parent Mate		
	n Sulfide (A4)		Dark Surf	•	•				ırk Surface (F22	2)
	d Layers (A5)		Loamy Mu					) Other (Explain in		
	ıck (A10)		Loamy Gl	-					,	
	d Below Dark Surface	(A11)	Depleted	-						
	ark Surface (A12)	` ,	X Redox Da	rk Surfac	ce (F6)		<sup>3</sup> Indic	ators of hydrop	hytic vegetation	and
Sandy M	lucky Mineral (S1)		—— Depleted				W	etland hydrolog	gy must be pres	ent,
5 cm Mu	icky Peat or Peat (S3	)	Redox De	pression	s (F8)			-	or problematic	
Restrictive	Layer (if observed):									
Type:			_							
Depth (ir	nches):		<u> </u>				Hydric Soil Pres	sent?	Yes X	No
HYDROLC	OGY									
Wetland Hy	drology Indicators:									
	cators (minimum of o	ne is require						-	s (minimum of t	wo require
	Water (A1)		Water-Sta					Surface Soil Cra		
	iter Table (A2)		Aquatic F	•	,			rainage Patterr	,	
Saturatio			True Aqua					ry-Season Wa		
	larks (B1)		Hydrogen		,			Crayfish Burrow	` '	(00)
	nt Deposits (B2)		Oxidized I			•	` ′		e on Aerial Ima	• • • •
	posits (B3)		Presence						sed Plants (D1)	
	at or Crust (B4)		Recent Iro			liea Soli		Seomorphic Pos		
	oosits (B5)	magan, (D7)	Thin Mucl				<u>—</u> -	AC-Neutral Tes	st (D5)	
	on Visible on Aerial Ir	• • • •			, ,					
Field Obser	Vegetated Concave	Surface (Bo	B)Other (Ex	piain in F	kemarks)		T			
Surface Wat		e	No	Denth (i	inches):					
Water Table		s	No		inches):					
Saturation P		s <u></u>	No		inches):		Wetland Hydr	ology Present	? Yes	No X
	pillary fringe)			20ptii (i	_			g , . 1000III		
	corded Data (stream	gauge, mor	nitoring well, aeria	al photos	, previous	s inspec	ctions), if available:			
	`	- <b>-</b> .	<i>,</i>	•	•	•	,			
Remarks:										
Precipitation	n three months antece	edent was w	etter than norma	al.						

Project/Site: Arcadia 205 Project	City/Cou	ınty: Arcadia	a/Trempealeau	Sampling Date:	8/14-15/2019	
Applicant/Owner:				State: WI	Sampling Point:	3-5
Investigator(s): Steve Eggers, LeeAnn Glomski, Vaness	a Alberto	Section, 1	Γownship, Ra	ange:		
Landform (hillside, terrace, etc.):			Local relief (	concave, convex, none):		
Slope (%): 0 Lat:					Datum:	
Soil Map Unit Name:					ification: PEMA	
Are climatic / hydrologic conditions on the site typical fo			Yes	No X (If no, ex	plain in Remarks.)	
Are Vegetation , Soil X , or Hydrology X s	ignificantly o			Circumstances" present?		
Are Vegetation, Soil, or Hydrologyn				κplain any answers in Re		
SUMMARY OF FINDINGS – Attach site ma			g point lo	cations, transects	, important fea	ntures, etc.
Hydrophytic Vegetation Present? Yes X No		Is the	Sampled A	rea		
			n a Wetland		No	
Wetland Hydrology Present? Yes X No					·	
Remarks: Pasture, recently grazed. Sample point is within a sma connection to, the wetland swale documented by 3-1,						
<b>VEGETATION</b> – Use scientific names of plan						
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:	
1.	70 00101	ороско:	Otatao	Number of Dominant		
2.				Are OBL, FACW, or I	•	1 (A)
3.				Total Number of Dom	ninant Species	
4				Across All Strata:		1 (B)
5		=Total Cover		Percent of Dominant Are OBL, FACW, or I	•	00.0% (A/B)
Sapling/Shrub Stratum (Plot size:)						
1				Prevalence Index w		
2. 3.				Total % Cover o	$\frac{f:}{50} \frac{\text{Multipl}}{\text{x 1 =}}$	50
1				· -	5 x 2 =	30
5.				· · · · · · · · · · · · · · · · · · ·	0 x 3 =	0
		=Total Cover		FACU species	0 x 4 =	0
Herb Stratum (Plot size: 5' radius )					0 x 5 =	0
Persicaria hydropiper	50	Yes	OBL	Column Totals: 6		80 (B)
Echinochloa crus-galli     Phalaris arundinacea	<u>10</u> 5	No No	FACW FACW	Prevalence Index	= B/A = <u>1.2</u>	23
	<u>ə</u>	No	FACVV	Hydrophytic Vegeta	tion Indicators:	
5.					r Hydrophytic Vege	etation
6.				X 2 - Dominance To		
7.				X 3 - Prevalence In	dex is ≤3.0 <sup>1</sup>	
8					Adaptations <sup>1</sup> (Pro	
9.					ks or on a separate	,
10	65	-Total Caver			rophytic Vegetation	
Woody Vine Stratum (Plot size:)	00	=Total Cover		<sup>1</sup> Indicators of hydric s be present, unless dis		
1.				Hydrophytic		
2		=Total Cover		Vegetation Present? Yes	XNo	<u> </u>
Remarks: (Include photo numbers here or on a separa	ate sheet.)					

Species with less than 1 percent cover: Juncus effusus (OBL); Rumex crispus (FAC). Managed vegetation--pasture/erosion control mix likely applied. Lolium perenne had 15% areal cover but planted/seeded species are excluded from the hydrophytic vegetation determination per Chapter 5.

SOIL Sampling Point: 3-5

	•	to the dept		ument tl		tor or	confirm the absence o	of indicators.)
Depth (inches)	Matrix Color (moist)	0/.				Loc <sup>2</sup>	Toyturo	Domarka
(inches)	Color (moist)	<u>%</u> _	Color (moist)	<u>%</u>	Type <sup>1</sup>		•	Remarks
0-10	10YR 3/1	85	10YR 4/4	15	<u>C</u>	M	Loamy/Clayey	
10-17	10YR 3/1	80	7.5YR 4/4	20	С	М	Sandy	Prominent redox concentrations
					<u>_</u>	<u></u>		
1 <sub>Type: C=C</sub>	concentration D-Dan	lotion DM-	Paduaad Matrix I		Lod Sono	Crains	<sup>2</sup> l coation	PL=Pore Lining, M=Matrix.
Hydric Soil	oncentration, D=Dep	ietion, Rivi-	Reduced Matrix, i	VIS-IVIASI	keu Sand	Giains		s for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Gle	eved Mat	rix (S4)			t Prairie Redox (A16)
	pipedon (A2)		Sandy Re	-				Manganese Masses (F12)
	istic (A3)		Stripped N					Parent Material (F21)
	en Sulfide (A4)		Dark Surfa	•	-,			Shallow Dark Surface (F22)
	d Layers (A5)		Loamy Mu		eral (F1)			(Explain in Remarks)
	uck (A10)		Loamy Gl	-				(2/prain in France)
	d Below Dark Surface	e (A11)	Depleted	-				
l <del></del>	ark Surface (A12)	, (, (, , ,	X Redox Da	•	•		<sup>3</sup> Indicator	s of hydrophytic vegetation and
	/lucky Mineral (S1)		Depleted I					nd hydrology must be present,
	5 cm Mucky Peat or Peat (S3) Redox Depressions (F8)							s disturbed or problematic.
	Layer (if observed):			•	. ,			·
Type:								
Depth (ii	nches):						Hydric Soil Present	? Yes X No
HYDROLO	OGY							
Wetland Hy	drology Indicators:							
Primary Indi	cators (minimum of c	ne is requir	ed; check all that	apply)			<u>Secondar</u>	y Indicators (minimum of two required)
X Surface	Water (A1)		Water-Sta		, ,			ce Soil Cracks (B6)
	ater Table (A2)		Aquatic Fa	•	,			age Patterns (B10)
X Saturation			True Aqua		, ,			season Water Table (C2)
	farks (B1)		Hydrogen		•			ish Burrows (C8)
	nt Deposits (B2)		Oxidized F			_		ation Visible on Aerial Imagery (C9)
	posits (B3)		Presence					ed or Stressed Plants (D1)
	at or Crust (B4)		Recent Iro			ilea Soi	• •	norphic Position (D2)
	oosits (B5) on Visible on Aerial I	mageny (R7)	Thin Muck Gauge or				<u> </u>	Neutral Test (D5)
	y Vegetated Concave				` '			
Field Obser		Curiace (B	<u> </u>	piairi ii i	tomantoj			
Surface Wat		s X	No	Depth (i	nches):	4		
Water Table		s X	No	Depth (i	· -	0	·	
Saturation P	Present? Ye	s X	No	Depth (i	_	0	Wetland Hydrolog	gy Present? Yes X No
(includes ca	pillary fringe)		· <u></u>		_		·	
Describe Re	ecorded Data (stream	gauge, moi	nitoring well, aeria	al photos	, previous	sinsped	ctions), if available:	
Remarks:								
	three months antec	edent was w	etter than normal	l <u>.</u>				

Project/Site: Arcadia 205 Project		City/County: Arcadia, Trempealeau Sampling Date: 8/15, 9/24					9/24/19
Applicant/Owner:				State: WI	Sampling	Point: <u>4-1</u>	
Investigator(s): S. Eggers, L. Glomski, V. Alberto		Section	, Township, Ra	nge:			
Landform (hillslope, terrace, etc.):				_			
Slope (%): Lat:							
Soil Map Unit Name:							
Are climatic / hydrologic conditions on the site typical for thi						<u> </u>	
Are Vegetation X, Soil X, or Hydrology X						X .	l.
							NO
Are Vegetation, Soil, or Hydrology summary OF FINDINGS - Attach site map				eeded, explain any answered ocations, transects			es, etc.
Hydrophytic Vegetation Present? Yes X				,			,
Hydric Soil Present? Yes X	10	1	s the Sampled				
Wetland Hydrology Present? Yes X		١   ١	within a Wetla	nd? Yes $\underline{\times}$	No_		
Remarks:							
Major, recent (July 2017) flood event washed awa (north) of this location appeared to be scoured to							
VEGETATION – Use scientific names of plants	i.						
201 div	Absolute	Domir	nant Indicator	Dominance Test wor	ksheet:		
Tree Stratum (Plot size: 30' radius )			es? Status	Number of Dominant S	Species		
1. Acer saccharinum	- <del>15</del>	Yes		That Are OBL, FACW,	or FAC:	3	(A)
2. Robinia pseudoacacia		Yes		Total Number of Domi	nant		
3. Acer negundo	$-\frac{5}{2}$	No.		Species Across All Str	ata: _	4	(B)
4. Juglans nigra		No	FACU	Percent of Dominant S	Species		
5				That Are OBL, FACW,		75	(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius )	37	= Total	Cover	Prevalence Index wo	rksheet:		
1				Total % Cover of:		Multiply by:	
2				OBL species			_
3				FACW species			
4				FAC species			
5				FACU species			
		= Total	Cover	UPL species			
Herb Stratum (Plot size: 5' radius )				Column Totals:			
1. Persicaria lapathifolia	_ <u>15</u>	Yes					_ ` ′
2. Echinochloa crus-galli	10	Yes		Prevalence Index			
3. Elymus repens	5	No		Hydrophytic Vegetati			
4. Phalaris arundinacea		No		1 - Rapid Test for	Hydrophytic	: Vegetation	
5. Ambrosia trifida	2	No		Z 2 - Dominance Te			
6. Poa annua		No		3 - Prevalence Inc		1	
7. Polygonum aviculare	_ 1	No		4 - Morphological data in Remark	Adaptations	;' (Provide sur	pporting
8. Cyperus strigosus		No		Problematic Hydro			
9. Bidens sp.		No		i robiematio riyare	priyac vege	station (Exple	all 1)
10. Oxalis stricta		No	FACU	<sup>1</sup> Indicators of hydric so	oil and wetla	nd hydrology	must
Woody Vine Stratum (Plot size: 30' radius )	37	= Total	Cover	be present, unless dist			
1				Hydrophytic			
2				Vegetation Present? Ye	es_X_	No	
Remarks: (Include photo numbers here or on a separate		= Total	Cover				
Groundlayer was depauperate due to scouring by recently exposed soils. Trees were a mix of FACV	recent, se			ominants are pioneer	ing specie	s colonizinç	g the
Trecently exposed soils. Trees were a mix of FACV	V/FAC/FAC	ou she	501 <del>5</del> 5.				

SOIL Sampling Point: 4-1

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confi	rm the absence	e of indicators.)	
Depth	Matrix		Redo	x Feature:		1 2		D	
(inches) 0-13	Color (moist) 10YR 3/2	90	Color (moist) 7.5YR 3/4	<del>%</del> 10	Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u> L/C	Remarks	
									——
13-22	10YR 3/2	95	7.5YR 4/4	5			_ Sandy		
1 <sub>Type: C=C</sub>	oncentration, D=Dep	lotion PM-	Poducod Matrix M	S-Maskad	Sand Gr	——	21 ocation	n: PL=Pore Lining, M=Matrix.	
Hydric Soil		ellon, Kivi-	Reduced Matrix, Mi	3-Wasked	Sand Gr	ali 15.		s for Problematic Hydric Soils	3:
Histosol			Sandy (	Gleyed Ma	trix (S4)			Prairie Redox (A16)	
_	pipedon (A2)			Redox (S5				Surface (S7)	
Black Hi	, ,			d Matrix (S	,		_	Manganese Masses (F12)	
	n Sulfide (A4)			Mucky Mir	, ,			Shallow Dark Surface (TF12)	
	I Layers (A5) ck (A10)			Gleyed Ma d Matrix (I			Other	(Explain in Remarks)	
_	l Below Dark Surface	e (A11)	X Redox I						
	ark Surface (A12)	,		d Dark Su			3Indicator	s of hydrophytic vegetation and	
Sandy M	lucky Mineral (S1)		Redox I	Depression	ns (F8)			nd hydrology must be present,	
	cky Peat or Peat (S3	-					unless	s disturbed or problematic.	
_	_ayer (if observed):								
Type:	-h N						Hydric Soi	Present? Yes X No	, l
Depth (in	cnes):		<u> </u>						
Remarks:	action of the north	hank of	Turton Crook or	occut me	ior floor	Lovent	buried areas	with freeh eand (up to 17" d	lonth\
								with fresh sand (up to 17" d led gullies. The sample poi	
	n area that appea				y orouth	ig iowo	ir, wottor, oroc	ioa gamoo. Tho campio por	in was
HYDROLO	GY								
	drology Indicators:								
_	ators (minimum of o	ne is requir	ed: check all that ar	nnly)			Second	ary Indicators (minimum of two	required)
	Water (A1)	ne is requii	Water-Sta	. , ,	es (R9)			rface Soil Cracks (B6)	<u>required</u>
	ter Table (A2)		Aquatic Fa		, ,			ainage Patterns (B10)	
Saturation			True Aqua					/-Season Water Table (C2)	
	arks (B1)		Hydrogen					ayfish Burrows (C8)	
X Sedimer	nt Deposits (B2)		Oxidized F			ing Root		turation Visible on Aerial Image	ry (C9)
X Drift Dep	oosits (B3)		Presence	of Reduce	d Iron (C4	1)	Stu	inted or Stressed Plants (D1)	
Algal Ma	t or Crust (B4)		Recent Iro	n Reducti	on in Tille	d Soils (		omorphic Position (D2)	
	osits (B5)		Thin Muck	,	,		X FA	C-Neutral Test (D5)	
_	on Visible on Aerial I		. —						
	Vegetated Concave	Surface (B	38) Other (Exp	olain in Re	marks)				
Field Obser			No X Depth (in	abaa):					
Surface Wat			No X Depth (in						
Water Table			No X Depth (in				otland Uudralaa	gy Present? Yes X	。
Saturation P (includes car		55 I	NO Deptri (in	cites):		-   W	suanu myarolog	gy riesentr res N	·—
Describe Re	corded Data (stream	-							
Modeling by	the Corps shows	that the	sample point is ju	ıst outsid	e area ir	nundate	ed by the 2-ye	ar flood event.	
Remarks:									
								nt as well as straightening i	
past. An up	land berm exists a inds.	along the	north side of the	creek, ar	ia Samp	ie Poin	ıı 4-1 IS JUST DE	eyond this upland berm and	i located
		9		•			•	,	- 1

Project/Site: Arcadia 205 Project		City/County: Arcadia, Trempealeau Sampling Date: 8/15,9					/24/19
Applicant/Owner:				State: WI	Sampling	Point: <u>4-2</u>	
Investigator(s): S. Eggers, L. Glomski, V. Alberto		Section, T	ownship, Ra	nge:			
Landform (hillslope, terrace, etc.):							
Slope (%): Lat:							
Soil Map Unit Name:				NWI classifi			
Are climatic / hydrologic conditions on the site typical for t							
Are Vegetation X, Soil X, or Hydrology X						X	la.
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site maj				eeded, explain any answ			s. etc.
Hydrophytic Vegetation Present? Yes X		Ť	<u> </u>	,			
Hydric Soil Present? Yes	No X	ls t	he Sampled	Area			
Wetland Hydrology Present? Yes	No X	wit	hin a Wetlar	nd? Yes	No_	<u> </u>	
Remarks:							
Berm of higher elevation along Turton Creek not washed away herbaceous vegetation and substa				event. Major, recent	(July 2017	') flood even	t
<b>VEGETATION</b> – Use scientific names of plant	S.						
Tree Stratum (Plot size: 30' radius )	Absolute		t Indicator	Dominance Test wor	ksheet:		
1. Robinia pseudoacacia	% Cover 20	Yes	Status FACU	Number of Dominant S That Are OBL, FACW,		4	(A)
2. Juglans nigra	$-\frac{20}{20}$	Yes	FACU	That Are OBL, FACW,	or FAC:		. (A)
3. Acer negundo		Yes	FAC	Total Number of Domi		6	(B)
4. Populus deltoides spp. monilifera	15	Yes	FAC	Species Across All Str	ata: _		(B)
5. Salix x fragilis		No	FAC	Percent of Dominant S		67	(A (D)
		= Total Co	over	That Are OBL, FACW,	or FAC:		(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius )				Prevalence Index wo	rksheet:		
1. Acer negundo	10	Yes	FAC_	Total % Cover of:		Multiply by:	_
2. Rhamnus cathartica	5	Yes	FAC	OBL species	) x 1	= 0	_
3. Celtis occidentalis		No_	FAC_	FACW species12	^ ^	156	-
4				FACUL species 40	^	-	-
5				FACO species			-
Herb Stratum (Plot size: 5' radius )	15	= Total Co	over	01 E species	^	240	
1. Acer negundo	5	Yes	FAC	Column Totals:104	4 (A)		(B)
2. Echinocystis lobata		Yes	FACW	Prevalence Inde	x = B/A = _	3.27	_
3. Laportea canadensis		Yes	FACW	Hydrophytic Vegetat	ion Indicate	ors:	
A. Pilea pumila		Yes	FACW	1 - Rapid Test for	Hydrophytic	c Vegetation	
5. Impatiens capensis	2	Yes	FACW	2 - Dominance Te	st is >50%		
6. Elymus virginicus	_ 2	Yes	FACW	3 - Prevalence Inc	lex is ≤3.0 <sup>1</sup>		
7. Cinna sp.	+	No_		4 - Morphological			
8. Carex sp.	+	No_		data in Remarl			
g. Symphyotrichum sp.	+	No_		Problematic Hydro	opnytic vege	etation (Expla	iin)
10				<sup>1</sup> Indicators of hydric so	ail and watta	and hydrology	must
30' radius	15	= Total Co	over	be present, unless dis			illust
Woody Vine Stratum (Plot size: 30' radius )	2	No	FACW				
Parthenocisscus sp.	$-\frac{2}{1}$	No	- FACVV	Hydrophytic Vegetation			
Z. Z	$-\frac{1}{3}$	= Total Co		Present? Y	Yes No		
Remarks: (Include photo numbers here or on a separate		- Total Co	Jvei .				
Tree and shrub layers only used for Dominance	,	se herba	ceous lave	r was depauperate d	ue to rece	nt scourina	by
major flood event. Woody vine stratum did not m							·

SOIL	Sampling Point: 4-2
SOIL	Sampling Point:

Profile Desc	ription: (Describe	to the depth r	needed to docum	nent the i	indicator	or confirm	the absence	of indicator	rs.)		
Depth	Matrix		Redox	x Feature	s						
(inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup> _	_Loc <sup>2</sup>	Texture		Remarks		
0-17	10YR 5/3	95 7	7.5YR 3/4	5			Sandy	Freshly d	eposited san	d layer	
17-23	10YR 3/2	95 7	7.5YR 3/4	5			L/C				
1 <sub>T., max</sub> C=C		lation DM-Da	duced Metrix MC		. ————————————————————————————————————		21 0001:01	DI =Doro I	ining M-Matri		
Hydric Soil	oncentration, D=Dep	letion, Rivi-Re	duced Matrix, MS	=wasked	a Sand Gra	ains.			ining, M=Matri natic Hydric S		
Histosol			Sandy C	Sleyed Ma	striv (SA)			Prairie Redo	-	Jii3 .	
ı —	pipedon (A2)			Redox (S5			_	Surface (S7)	X (A10)		
Black Hi	. , ,			Matrix (S			_	langanese M	asses (F12)		
ı —	n Sulfide (A4)				neral (F1)				Surface (TF12	)	
	Layers (A5)			Gleyed Ma				(Explain in R		,	
2 cm Mu	ıck (A10)		Depleted	d Matrix (	F3)						
Depleted	d Below Dark Surface	e (A11)	Redox D	ark Surfa	ace (F6)						
_	ark Surface (A12)				ırface (F7)				tic vegetation a		
	lucky Mineral (S1)		Redox D	epressio)	ns (F8)				must be preser	ıt,	
	icky Peat or Peat (S3	3)					unless	disturbed or	problematic.		
	Layer (if observed):										
Type:			_				Hydric Soil	Present?	Yes	$_{No}$ $\times$	
Depth (inc	ches):		_				11,741.10 00.11				
Remarks:											
meeting F6 (7-30 days)	of sand deposited , or any other field or very long (30+ f the 2-year flood.	indicator. C days) durati	onsideration gi on in most yea	iven to w irs. Prior	vhether s to the Ju	ite could	met Criteria flood, this sa	4 for a hyd ample point	lric soilflood was right on	led for long	
HYDROLO	GY										
Wetland Hyd	drology Indicators:										
Primary Indic	cators (minimum of o	ne is required;	check all that ap	ply)			Seconda	ary Indicators	s (minimum of t	wo required)	
Surface	Water (A1)		Water-Stai	ned Leav	es (B9)		Sur	face Soil Cra	cks (B6)		
I —	iter Table (A2)		Aquatic Fa		, ,			inage Patteri	, ,		
Saturation			True Aqua						ter Table (C2)		
Water M	arks (B1)		Hydrogen	Sulfide O	dor (C1)		Cra	yfish Burrow	s (C8)		
1	nt Deposits (B2)		Oxidized R			ing Roots		-	e on Aerial Ima	gery (C9)	
X Drift Dep	oosits (B3)		Presence of	of Reduce	ed Iron (C4	)	Stu	nted or Stres	sed Plants (D1	)	
Algal Ma	at or Crust (B4)		Recent Iro	n Reducti	on in Tilled	Soils (Ce					
Iron Dep	oosits (B5)		Thin Muck	Surface (	(C7)		FAC	C-Neutral Tes	st (D5)		
Inundation	on Visible on Aerial I	magery (B7)	Gauge or V	Well Data	(D9)						
Sparsely	Vegetated Concave	Surface (B8)	Other (Exp	lain in Re	emarks)						
Field Obser	vations:										
Surface Wate	er Present? Y	es No	X Depth (inc	ches):		_					
Water Table	Present? Y	es No	X Depth (inc	ches):		_					
Saturation Pr			X Depth (inc				and Hydrolog	v Present?	Yes	No X	
(includes cap	oillary fringe)										
I	corded Data (stream	-									
	the Corps shows	that the sar	mple point is ju	st outsid	le of area	inundat	ed by the 2-	year flood e	event.		
Remarks:											
Drift/sedime	ek has been modi ent deposits reflect Area is outside of ion is that wetland	t a recent m that inundat	ajor flood even ed by the 2-yea	it, not ini	undation	with a fre	equency/dura	ation that c	ould support	wetland	

Project/Site: Arcadia 205 Project	(	City/County: Arcadia, Trempealeau Sampling Date: 8/22					Date: 8/22/20	019
Applicant/Owner:		State: WI Sampling Point: <u>5-1</u>						
Investigator(s): S. Eggers	;	Section	n, Towr	nship, Ran	nge:			
Landform (hillslope, terrace, etc.):								
Slope (%): Lat:	ו	Long: _				Datum:		
Soil Map Unit Name:								
Are climatic / hydrologic conditions on the site typical for this								
Are Vegetation, Soil X, or Hydrology X s					Normal Circumstances" p		es X No	
Are Vegetation, Soil, or Hydrology r	naturally prol	blemati	ic?	(If ne	eded, explain any answe	rs in Remar	ks.)	
SUMMARY OF FINDINGS - Attach site map	showing	samp	oling	point lo	ocations, transects	, importa	int features	s, etc.
Hydrophytic Vegetation Present? Yes N	lo							
Hydric Soil Present? Yes X				Sampled				
	lo	· ·	within	a Wetlan	d? Yes^_	No_		
Remarks:								
Formerly part of large floodplain forest complex (s various fill projects (e.g., see 2005 aerial). Not ma								:0
VEGETATION – Use scientific names of plants.								
30' radius	Absolute			ndicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30' radius ) 1)	% Cover				Number of Dominant Sp That Are OBL, FACW, of		2	(A)
2.					, ,	_		( )
3.					Total Number of Domin Species Across All Stra		2	(B)
4					Demonst of Deminent Co			`
5					Percent of Dominant Sp That Are OBL, FACW, or		100	(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius )		= Total	l Cover	r	Prevalence Index wor	kehoot:		
					Total % Cover of:		Multiply by:	
1 2					OBL species			
3					FACW species			- 1
4					FAC species			- 1
5					FACU species			- 1
		= Total	Cover	r	UPL species			
Herb Stratum (Plot size: 5' radius )	00			0.01	Column Totals:	(A)		_ (B)
1. Eleocharis palustris	_ 60	Yes		OBL_	Dravalance Index	- D/A -		
2. Alsima triviale Lemna minor	- <del>30</del> 5	Yes		OBL OBL	Prevalence Index  Hydrophytic Vegetation			
Lindernia dubia	$-\frac{3}{2}$	No		OBL	1 - Rapid Test for h			
Phalaris arundinacea	1	No		ACW	2 - Dominance Tes	t is >50%	vegetation	
6. Persicaria hydropiper	+	No		OBL	3 - Prevalence Inde			
7					4 - Morphological A		(Provide sup	porting
8					data in Remarks			
9.					Problematic Hydro	phytic Vege	tation¹ (Explai	n)
10.								
Woody Vine Stratum (Plot size: 30' radius )	98	= Total	l Cover	r	<sup>1</sup> Indicators of hydric soil be present, unless distu			nust
1					Hydrophytic			
2					Vegetation	~		
		= Total	l Cover	r	Present? Yes	s <u>X</u>	NO	
Remarks: (Include photo numbers here or on a separate	sheet.)							
Plot located in outer perimeter of basin between o	pen water	and fil	ll for l	evee. Ar	ea is mowed periodic	ally when	conditions (	drier)
permit.								

SOIL Sampling Point: 5-1

Depth	Matrix		Redo	x Feature		. 2	_			
(inches) 0-2	Color (moist) 10YR 3/3	100	Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks Fibric		
2-9	2.5Y 5/2	80	7.5YR 4/6	- <del></del> 5			Organic L/C	Organic mixed with mineral soil		
	2.01 0/2		10YR 5/1	- <del></del> 15	D			and 0.5- to 1-inch diameter		
			101103/1							
								gravel		
1- 0.0							21			
Hydric Soil		pietion, Rivi=	Reduced Matrix, M	S=Masked	a Sand Gra	ains.		r: PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :		
Histosol			Sandy	Gleyed Ma	atrix (S4)			Prairie Redox (A16)		
_	oipedon (A2)			Redox (S5			_	Surface (S7)		
ı —	istic (A3)			d Matrix (S	,		_	anganese Masses (F12)		
	en Sulfide (A4)			Mucky Mi				Shallow Dark Surface (TF12)		
_	d Layers (A5)		X Deplete	Gleyed Ma	atrix (F2)		Other	(Explain in Remarks)		
_	ıck (A10) d Below Dark Surfa	ce (A11)		ed Matrix ( Dark Surfa						
	ark Surface (A12)	OC (A11)	_		urface (F7)		3Indicators	s of hydrophytic vegetation and		
_	Mucky Mineral (S1)			Depressio	, ,			d hydrology must be present,		
	icky Peat or Peat (					unless disturbed or problematic.				
Restrictive	Layer (if observed	):								
Type:	-h \						Hydric Soil	Present? Yes X No		
Depth (in Remarks:	cnes):									
HYDROLO										
	drology Indicators		ed; check all that a	oply)			Second	ary Indicators (minimum of two required)		
	Water (A1)	one is requir	ed, crieck all that a Water-Sta		es (BQ)			face Soil Cracks (B6)		
	ater Table (A2)		Aquatic F		` '			inage Patterns (B10)		
X Saturation	, ,		True Aqua					-Season Water Table (C2)		
_	larks (B1)			Sulfide O				yfish Burrows (C8)		
	nt Deposits (B2)					ing Roots		uration Visible on Aerial Imagery (C9)		
Drift De	posits (B3)		Presence	of Reduce	ed Iron (C4	<b>!</b> )	Stu	nted or Stressed Plants (D1)		
Algal Ma	at or Crust (B4)		Recent Iro	n Reducti	on in Tille	d Soils (Ce		omorphic Position (D2)		
	oosits (B5)		Thin Muck	Surface (	(C7)		$\times$ FAC	C-Neutral Test (D5)		
	on Visible on Aerial				. ,					
	y Vegetated Conca	ve Surface (E	38) Other (Ex	plain in Re	emarks)					
Field Obser		. × .	. 5		1*					
Surface Wat			No Depth (in			-				
Water Table						-   ,,,,,,,,				
Saturation P (includes car	oillary fringe)		No Depth (in					y Present? Yes X No		
		_	nitoring well, aerial							
	is visible on / ou	tor rryea	rs of aerial photo	grapny s	panning	∠∪∪4 <b>-</b> ∠Û	1 <del>3</del> .			
Remarks:	occione within F	foot radius	had 1 inch of in-	ındation	Adiacas	t area of	onon water l	and Q inches of water death		
	essions within 5- In three months a							had 9 inches of water depth.		

Project/Site: Arcadia 205 Project	c	city/County	y: <u>Arcadia,</u>	Trempealeau	Sampling Date: 8/2	2/2019
Applicant/Owner:				State: WI	Sampling Point: 5-2	2
Investigator(s): S. Eggers		Section, To	ownship, Ran	ige:		
Landform (hillslope, terrace, etc.):						
Slope (%): Lat:	ι	.ong:			Datum:	
Soil Map Unit Name:				NWI classific		
Are climatic / hydrologic conditions on the site typical for this ti	me of vea	r? Yes	No >			
Are Vegetation, Soil _X, or Hydrology _X sign				Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology nate				eded, explain any answe		
SUMMARY OF FINDINGS - Attach site map sh	nowing	samplir	ng point lo	cations, transects	, important featı	ures, etc.
Hydrophytic Vegetation Present? Yes No _	X					
Hydric Soil Present? Yes No _			he Sampled		\ <u>/</u>	
Wetland Hydrology Present? Yes No _	<u> </u>	with	hin a Wetlan	d? Yes	No <u>X</u> _	
Remarks:	. ,					
Convex area of fill clearly visible on aerial photograp were placed >10 years ago, current condition is cons					image. Since leve	e and fill
<b>VEGETATION</b> – Use scientific names of plants.						
			t Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30 radius ) 9		_	Status	Number of Dominant Sp That Are OBL, FACW, of		(A)
2				Total Number of Domin	ant	
3			I	Species Across All Stra	ta: <u>2</u>	(B)
4				Percent of Dominant Sp		
5		= Total Co	- —	That Are OBL, FACW, o	or FAC:50	(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius )		- Total Co	, vei	Prevalence Index work	ksheet:	
1				Total % Cover of:	Multiply by	<u>y:</u>
2				OBL species 0	x 1 =	
3				FACW species 40		-
4				FAC species 0	x 3 =	
5			- ——	FACU species 45	^4	
Herb Stratum (Plot size: 5' radius )	=	= Total Co	ver	UPL species0		<u> </u>
1. Glechoma hederacea	40	Yes	FACU	Column Totals: 85	(A)	(B)
2. Phalaris arundinacea	40	Yes	FACW	Prevalence Index	= B/A =3.05	
Trifolium hybridum	5	No	FACU	Hydrophytic Vegetation		
Taraxacum officinale	+	No No	FACU	1 - Rapid Test for H	lydrophytic Vegetatio	n
Oxalis stricta	+	No	FACU	2 - Dominance Tes	t is >50%	
6				3 - Prevalence Inde	x is ≤3.0 <sup>1</sup>	
7				4 - Morphological A	daptations <sup>1</sup> (Provide	supporting
8					s or on a separate she	
9				Problematic Hydrop	onytic Vegetation (Ex	kplain)
10				1Indiantors of hydric soil	l and watland hydrola	au munat
Woody Vine Stratum (Plot size: 30' radius )	85=	= Total Co	ver	<sup>1</sup> Indicators of hydric soil be present, unless distu		gy must
1				Hydrophytic		
2				Vegetation	s No_X	
		= Total Co	ver	Present? Yes	> NO	_
Remarks: (Include photo numbers here or on a separate she	eet.)					
Periodically mowed.						

SOIL Sampling Point: 5-2

			th needed to docur		or confirm	the absence of	indicators.)
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Features % Type <sup>1</sup>	_Loc²	Texture	Remarks
(IIICHES)	Color (Inoist)		Color (Illoist)				Remarks
¹Type: C=Co	oncentration, D=De	epletion. RM=	Reduced Matrix, MS	S=Masked Sand G	ains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I		- piotion, 1 titl	Troudous manny m	o madica dana di			or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy (	Gleyed Matrix (S4)			airie Redox (A16)
	pipedon (A2)			Redox (S5)		Dark Sur	
Black Hi				d Matrix (S6)			ganese Masses (F12)
_	n Sulfide (A4)			Mucky Mineral (F1)		_	illow Dark Surface (TF12)
Stratified	Layers (A5)			Gleyed Matrix (F2)			xplain in Remarks)
2 cm Mu	ick (A10)		Deplete	d Matrix (F3)			
Depleted	d Below Dark Surfa	ace (A11)	Redox [	Dark Surface (F6)			
Thick Da	ark Surface (A12)		Deplete	d Dark Surface (F7	)	<sup>3</sup> Indicators of	f hydrophytic vegetation and
	lucky Mineral (S1)		Redox [	Depressions (F8)			nydrology must be present,
	icky Peat or Peat (					unless di	sturbed or problematic.
Restrictive L	_ayer (if observed	i):					
Туре:						Hydric Soil D	resent? Yes No
Depth (inc	ches):					Hydric 30ii Fi	esentr resNo
Remarks:							
HYDROLO	GY						
Wetland Hyd	drology Indicator	s:					
Primary India	ators (minimum o	fone is requir	ed; check all that ap	oply)		Secondary	Indicators (minimum of two required
Surface	Water (A1)		Water-Sta	ined Leaves (B9)			e Soil Cracks (B6)
	iter Table (A2)		Aquatic Fa	, ,			ige Patterns (B10)
Saturation	, ,			itic Plants (B14)			eason Water Table (C2)
	arks (B1)			Sulfide Odor (C1)			sh Burrows (C8)
	nt Deposits (B2)			Rhizospheres on Liv	ina Roots ((		tion Visible on Aerial Imagery (C9)
	posits (B3)		_	of Reduced Iron (C		. —	d or Stressed Plants (D1)
	it or Crust (B4)			n Reduction in Tille	-		orphic Position (D2)
	osits (B5)		_	Surface (C7)	· · · · · · · · · · · · · · · · · · ·	_	leutral Test (D5)
	on Visible on Aeria	l Imagery (B7		Well Data (D9)			
_	Vegetated Conca			olain in Remarks)			
Field Observ		170 0411400 (2		Jan III Kemanay			
Surface Water		Yes N	No Depth (in	ches).			
Water Table			No Depth (in		I .		
					- 1	nal Usalnala m. f	Present? Yes No _X
Saturation Projection (includes cap		resr	No Depth (in	cnes):	_   wetia	na Hyarology i	resent? res No
		m gauge, mo	nitoring well, aerial į	photos, previous in	spections), if	f available:	
Remarks:							
							rrounded by remnant wetlands
							by creeping charlie (Glechoma
							oving downslope to areas
COMMITTED	o meet all tillee	1001015 101	wetlands (see da	ia sileeis iui Säl	וואוב בחוווג	o u- i aliu u-u)	

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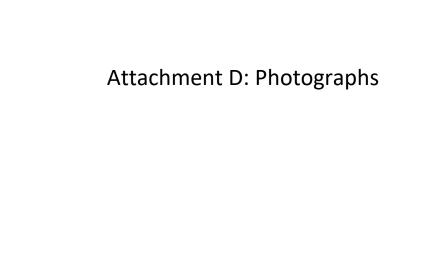
Project/Site: Arcadia 205 Project	city/County: Arcadia, Trempealeau Sampling Date: 8/22/2019					019	
Applicant/Owner:				State: WI	Sampling	Point: <u>5-3</u>	
Investigator(s): S. Eggers							
Landform (hillslope, terrace, etc.):							
Slope (%): Lat:	เ	_ong:			Datum:		
Soil Map Unit Name:				NWI classific			
Are climatic / hydrologic conditions on the site typical for this			No.				
Are Vegetation, Soil _X, or Hydrology _X s				Normal Circumstances" p		es X N	o
Are Vegetation, Soil, or Hydrology n	aturally prob	blematic	c? (If ne	eded, explain any answe	rs in Rema	rks.)	
SUMMARY OF FINDINGS - Attach site map	showing	samp	ling point lo	ocations, transects	, importa	ant feature	s, etc.
Hydrophytic Vegetation Present? Yes X N	0						
	0	ls	s the Sampled				
Wetland Hydrology Present? Yes X	0	w	vithin a Wetlan	d? Yes X	No_		
Remarks:							
Flat area of fill material, most recent placement of were placed >10 years ago, the current condition i							∍rial
<b>VEGETATION</b> – Use scientific names of plants.							
Tree Stratum (Plot size: 30' radius )	Absolute		ant Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30 radius )  1			es? Status	Number of Dominant St That Are OBL, FACW, o		2	(A)
2				Total Number of Domin	ant		
3				Species Across All Stra		2	(B)
4				Percent of Dominant Sp	nocios		
5				That Are OBL, FACW, of		100	(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius )		= Total (	Cover	Prevalence Index wor	kehoot:		
1				Total % Cover of:		Multiply by:	
2.				OBL species		=	_
3.				FACW species	x 2	=	_
4.				FAC species	x 3	=	_
5.				FACU species	x 4	=	_
E! rodius		= Total	Cover	UPL species	x 5	=	_
Herb Stratum (Plot size: 5' radius	0.5	\/	EA 0\A/	Column Totals:	(A)		_ (B)
1. Cyperus strigosus 2. Cyperus diandrus	35	Yes		Dravalanas Indav	- D/A -		
A 4'	- <u>30</u> 5	Yes No	FACW FACW	Prevalence Index  Hydrophytic Vegetation			
3. Agrostis gigantea Leocharis palustris	5	No	OBL	1 - Rapid Test for H			
5. Poa pratensis	5	No	FAC	2 - Dominance Tes	t is >50%	vegetation	
6. Phalaris arundinacea	5	No	FACW	3 - Prevalence Inde			
7. Trifolium hybridum	5	No	FACU	4 - Morphological A		1 (Provide sup	porting
8. Persicaria hydropiper	1	No	OBL	data in Remarks	s or on a se	parate sheet)	
g Echinochloa crus-galli	+	No	FACW	Problematic Hydro	phytic Vege	etation¹ (Explai	in)
10.Carex muskingumensis	+	No	OBL				
Woody Vine Stratum (Plot size: 30' radius )	91	= Total	Cover	'Indicators of hydric soil be present, unless distu			nust
1				Hydrophytic			
2				Vegetation	~		
	:	= Total	Cover	Present? Yes	s	No	
Remarks: (Include photo numbers here or on a separate s	sheet.)						
Juncus tenuis-FAC and Prunella vulgaris-FAC also	present,	each w	vith less than	1% areal cover. Area	ı is period	lically mowe	d.

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SOIL Sampling Point: 5-3

Profile Description: (Describe to the depth needed to do	cument the	indicator	or confirm	n the absence of ir	ndicators.)			
Depth Matrix Re	dox Feature	es						
(inches) Color (moist) % Color (moist)	%	Type <sup>1</sup> _	Loc <sup>2</sup>	Texture	Remarks			
0-4 10YR 2/2 65 7.5YR 4/4	10	C	M	L/C				
10Y 4/1	25	D	M					
4-22 2.5Y 5/2 60 7.5YR 4/6	40			Sandy				
— — — — — — — — — — — — — — — — — — —								
l								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix,	MS=Maske	d Sand Gra	ins.		=Pore Lining, M=Matrix.			
Hydric Soil Indicators:					Problematic Hydric Soils <sup>3</sup> :			
	ly Gleyed Ma			_	rie Redox (A16)			
	ly Redox (S	•		Dark Surface				
l —	ped Matrix (	,			anese Masses (F12)			
_ , , , ,	ny Mucky Mi ny Gleyed M				ow Dark Surface (TF12) lain in Remarks)			
	eted Matrix (			Office (Exp	all ill Kellarks)			
	x Dark Surf							
	eted Dark Si			3Indicators of h	ydrophytic vegetation and			
Sandy Mucky Mineral (S1) Redo	x Depressio	ons (F8)		wetland hyd	drology must be present,			
5 cm Mucky Peat or Peat (S3)				unless dist	urbed or problematic.			
Restrictive Layer (if observed):								
Туре:				Hudria Cail Drea	sent? Yes X No			
Depth (inches):				Hydric Soil Pres	sent? res NO			
Remarks:								
Disturbed soils, mixed fill materials. Abundant redox a	and depleti	ons with	diffuse b	oundaries near th	ne soil surface indicate recent			
anaerobic conditions. BPJ is that soils are hydric.								
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of one is required; check all that	apply)			Secondary In	ndicators (minimum of two required)			
Surface Water (A1) Water-S	Stained Leav	/es (B9)		Surface	Soil Cracks (B6)			
	Fauna (B13	, ,			e Patterns (B10)			
Saturation (A3) True Aq	quatic Plants	(B14)			son Water Table (C2)			
Water Marks (B1) Hydroge	en Sulfide O	dor (C1)		Crayfish	Burrows (C8)			
	d Rhizosphe		ng Roots		on Visible on Aerial Imagery (C9)			
Drift Deposits (B3) Presence	ce of Reduc	ed Iron (C4	)	Stunted	or Stressed Plants (D1)			
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)								
Iron Deposits (B5) Thin Mu	uck Surface	(C7)		X FAC-Net	utral Test (D5)			
Inundation Visible on Aerial Imagery (B7) Gauge o	or Well Data	(D9)						
Sparsely Vegetated Concave Surface (B8) Other (B	Explain in Re	emarks)						
Field Observations:								
Surface Water Present? Yes No X Depth	(inches):		_					
Water Table Present? Yes No X Depth	(11101165)							
Water Table Present? Yes No X Depth			_ Wetl	and Hydrology Pre	esent? Yes X No			
Water Table Present?  Saturation Present?  (includes capillary fringe)  Yes No Depth of the control	(inches):	22			esent? Yes <u>X</u> No			
Water Table Present?         Yes No _X Depth           Saturation Present?         Yes _X No Depth	(inches):	22			esent? Yes X No			
Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aeria	(inches):	22			esent? Yes X No			
Water Table Present?  Saturation Present?  Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aeris  Remarks:	(inches):	22 revious ins	ections),	if available:				
Water Table Present?  Saturation Present?  Yes No Depth ( includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aeris  Remarks:  A somewhat higher elevation, flat area compared to a	(inches):	22 revious insponent water	ections),	if available:	nanent. Abundant redox and			
Water Table Present?  Saturation Present?  Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aeris  Remarks:	al photos, produced adjacent opce indicate	revious inspectors water erecent at	area, what are	if available: hich is semi-pern	nanent. Abundant redox and W dominated plant community			

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Mowed turf area adjacent to Turton Creek and the Trempealeau River. Sample Points 1-1 and 1-2 were established at the far end of this flat.



Sample Point 1-5





Plant community at Sample Point 2-1: Floodplain Forest.





Above, another view of floodplain forest community. Silver maple (*Acer saccharinum*) and reed canary grass (*Phalaris arundinacea*) are dominants in this component.

Green dragon (*Arisaema dracontium*), an uncommon, characteristic species of floodplain forests.



Grazed pasture, predominately uplands, where Sample Points 3-1 through 3-6 were documented.







Sample Point 3-3. Hydric—met F6.



Sample Point 3-1, second soil sample: mixed, disturbed soils with gravel fill materials. Note light colored gravel lens.



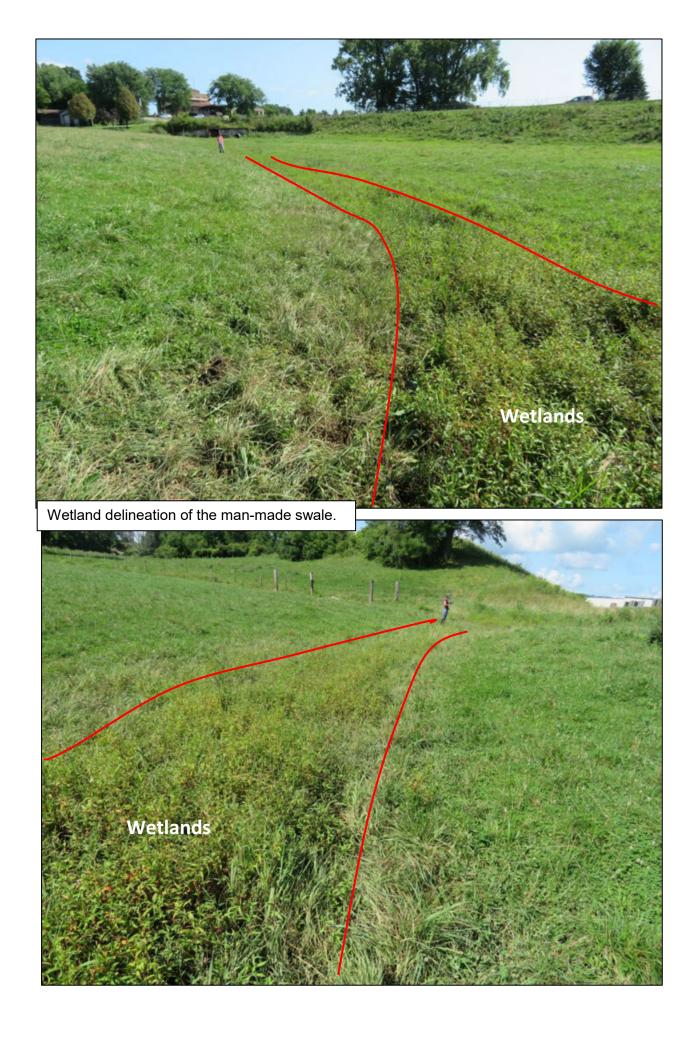
Sample Point 3-1. Upper edge of swale downstream of stormsewer culverts under South Washington Street (County J). Soils were hydric and hydrology indicators were observed. Vegetation was non-hydrophytic (note white clover (*Trifolium repens*)—FACU) but managed vegetation (e.g., planted/seeded) is not used for the hydrophytic vegetation determination.





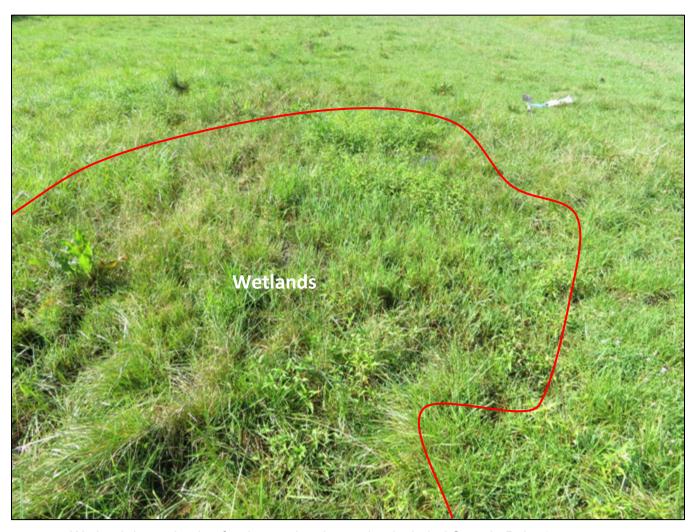
Sample Point 3-2 (red circle, approximate location) was established in the southern portion of the swale downgradient of Sample Points 3-1 and 3-3. This location was dominated by water pepper (*Persicaria hydropiper--*OBL).

Hydric soils--met F6.





Sample Point 3-5 was located within this small (21- by 28-foot) depressional area within the pasture. The dominant forb visible in the photographs is water pepper. Hydric soils. Inundated with up to 4 inches of water.



Wetland determination for depressional area that included Sample Point 3-5.













More examples of effects of flood event of Turton Creek just downstream of North Oak Street bridge.







Sample Point 4-1, sparsely vegetated due to recent flood event but neither buried by fresh sediment nor eroded into a gully. Thus, may indicate conditions present prior to catastrophic flood of July 2017.



Sample Point 4-2: 17 inches of freshly deposited sandy material due to recent flood event—very sparse herbaceous layer as a result. Trees were a mix of FAC and FACU species. Sample point determined to be within uplands.









Deep/Shallow Marsh and vicinity involving Sample Points 5-1, 5-2 and 5-3.





Sample Point 5-3: hydric soils.





Standing water depths to 9 inches (22 August 2019) and 14 inches (24 Sept 2019).



View of former sewage lagoons next to Ashley Furniture property. At this location, the footprint of the proposed levee would not encroach beyond the existing levee footprint seen here.



Example of narrow strip of wetlands, dominated by reed canary grass, that exists between Turton Creek and the levee.

Attachment E: Precipitation Data

## Antecedent Precip for Aug 2019 at Trempealeau Dam Station, WI

Long-term rainfall records

		3 yrs. in 10 less		10 more
	Month	than	Normal	than
1st prior month*	July	2.97		5.52
2nd prior month*	Jun	2.60		4.54
3rd prior month*	May	2.69		4.45

Compared to photo date

Note: If sum is

then prior period has been drier than normal

10 - 14 then prior period has been normal

15 - 18 then prior period has been wetter than normal

3 Sum

Condition

3

Condition value: Dry Normal =2

Condition

dry, wet,

W

W

W

Rain

fall

6.56

4.70

7.53

18 = Wet

Month

weight

3

Product of

previous two

columns

9 6

3

## Antecedent Precip for Sept 2019 at Trempealeau Dam Station, WI

1st prior month\* 2nd prior month\* 3rd prior month\*

		Long-terr	n rainfall	records					
	Month	3 yrs. in 10 less than	Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	
t	Aug	3.12		5.49	3.05	D	1	3	3
	Jul	2.97		5.52	6.56	W	3	2	6
	Jun	2.60		4.54	4.70	W	3	1	3

Compared to photo date

Note: If sum is

then prior period has been drier than normal

10 - 14 then prior period has been normal

15 - 18 then prior period has been wetter than normal

Condition value:

Dry Normal =2

Wet

12 = Normal

WETS Station: TREMPEALEAU DAM 6, WI													
Requested years: 1971 - 2000													
Month	Avg Max Temp	Avg Min Temp	Avg Mean Temp	Avg Precip	30% chance precip less than	30% chance precip more than	Avg number days precip 0.10 or more	Avg Snowfall					
Jan	24.2	5.3	14.7	1.07	0.65	1.29	3	10.0					
Feb	30.8	11.4	21.1	0.88	0.39	1.05	2	6.0					
Mar	42.6	23.7	33.1	1.95	1.28	2.35	4	4.9					
Apr	58.0	36.8	47.4	3.24	2.10	3.90	7	8.0					
May	70.5	48.3	59.4	3.77	2.69	4.45	7	0.0					
Jun	79.1	57.7	68.4	3.81	2.60	4.54	7	0.0					
Jul	83.1	62.4	72.7	4.59	2.97	5.52	7	0.0					
Aug	80.6	59.9	70.2	4.59	3.12	5.49	8	0.0					
Sep	71.9	51.2	61.6	3.85	2.00	4.70	7	0.0					
Oct	60.1	39.6	49.8	2.37	1.32	2.88	5	0.0					
Nov	42.0	26.4	34.2	2.21	1.15	2.66	5	2.6					
Dec	28.7	12.7	20.7	1.09	0.66	1.32	3	8.9					
Annual:	FC 0	20.2	46.1		29.61	35.87							
Average Total	56.0	36.3	46.1 -	33.42	-	-	- 66	33.2					
TOTAL	-	-	-	33.42			00	33.2					
GROWING SEASON DATES													
Years with missing data:	24 deg = 1	28 deg =	32 deg =										
Years with no occurrence:	24 deg = 0	28 deg = 0	32 deg = 0										
Data years used:	24 deg = 29	28 deg = 29	32 deg = 29										
Probability	24 F or higher	28 F or higher	32 F or higher										
50 percent *	4/3 to 10/26: 206 days	4/15 to 10/16: 184 days	4/27 to 10/5: 161 days										
70 percent *	3/30 to 10/30: 214 days	4/11 to 10/20: 192 days	4/23 to 10/10: 170 days										
* Percent chance of the growing season occurring between the Beginning and Ending dates.													
STATS TABLE - total precipitation (inches)													
Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
1936											1.22	M1. 13	2.3
1937	1.32	0.88	1.98	4.27	5.91	4.12	M0.30	4.25	2. 08	2. 14	0.98	0.40	28. 63
1938	0.59	0.91	3.13	3.95	4.87	6.61	7.46	3.58	8. 46	1. 61	2.68	M0. 83	44. 68
1939	0.74	M1.64	0.57	2.19	1.87	3.78	1.42	5.04	0. 80	0. 80	0.28	0.43	19. 56
1940	0.22	0.61	M1.14	2.68	3.15	4.94	1.45	6.30	0. 58	2. 97		1.46	28. 43
1941	1.32	M0.14	M1.24	2.26	4.65	4.34	2.18	2.16	7. 53	4. 38	1.79	M1. 09	33. 08
1942 1943	0.25 1.26	0.86	2.88 M1.53	0.92 M0.59	6.74 2.62	6.23 4.70	3.55 2.56	4.27 3.91	3. 94 1.	2. 26 2.	1.24	0.03	34. 90 23.
1943	M1.13	1.47	M1.53	1.74	3.83	4.70	2.50	2.45	62 4.	2. 56 0.	1.99	0.03	23. 56 25.
1544	1911.10	1.41	1.74	1.14	0.00	7.00	2.13	2.40	7.	0.	1.41	0.01	۷٠.

1945	0.91	2.39	2.72	3.68	6.38	3.40	3.74	3.46	19 M2.	73 0.	M2.	1.98	87 34.
									29	47	84		26
1946	1.96	0.38	2.31	M0.02	M3.01	4.26	1.07	3.04	5. 26	2. 39	1.82	1.24	26. 76
1947	0.85	0.16	1.44	M0.78	3.87	6.47	3.52	1.93	5. 60	3. 09	M1. 93	M1. 22	30. 86
1948	0.10	1.54	1.02	M1.82	2.16	M1.32	0.73	2.33	1. 16	1. 02	2.76	1.44	17. 40
1949	1.40	0.21		1.38	2.39	5.22	2.67	1.35	1. 14	1. 41	0.56		17. 73
1950	1.15	1.02	2.52	2.73	2.30	4.92	5.92	2.19	1. 51	1. 00	0.49	1.24	26. 99
1951	0.56	1.21	4.04	4.09	4.44	5.84	5.46	4.60	3. 33	4. 38	1.66	0.84	40. 45
1952	2.07	1.07	3.22	1.50	2.64	7.47	4.72	5.19	0. 59	M0. 04		0.91	29. 42
1953	0.69	1.11	1.87	4.72	3.54	6.46	7.04	2.86	0. 26	0. 36	1.77	1.26	31. 94
1954		0.38	1.74			5.74	3.86	2.50	5. 74	5. 35	0.60		25. 91
1955	0.12	0.56	1.17	3.39	4.78	1.64	5.85	1.12	0.	1.	0.38	0.76	21.
1956	0.36	0.46	M3.41	1.91	4.71	4.07	2.80	2.92	95	25 1.	1.70	0.83	97 25.
1957	0.20	0.35	0.81	1.65	4.94	4.24	5.66	4.25	34 1.	36 1.	3.53	0.52	87 28.
1958	0.20	0.03	0.15	2.58	1.12	1.78	3.84	2.28	29 2.	42 1.	1.95	M0.	86 17.
1959	M0.47	2.28	1.98	0.96	3.90	3.08	2.55	7.49	43 4.	18 2.	1.70	21 1.57	75 32.
1960	0.34	0.29	0.70	2.58	7.36	5.77	1.89	8.37	17 4.	54 1.	1.85	0.41	69 35.
1961	0.27	1.43	3.51	1.32	3.60	3.41	2.31	M2.28	02 3.	56 2.	2.19	1.04	14 27.
1962	0.08	1.71	2.07	3.21	3.93	2.87	3.50	7.30	92	25 2.	0.03	0.30	53 29.
1963	0.54	0.43	2.47	2.76	2.33	2.45	4.42		38	03		0.41	41 25.
								2.81	3. 59	1. 31			39
1964	0.37	T	1.20	2.08	4.79	1.25	1.00	3.28	6. 72	0. 34		0.70	23. 20
1965	0.45	1.21	2.11	5.51	4.06	2.79	5.33	5.15	9. 11	0. 96	2.32	1.84	40. 84
1966	1.09	1.50	3.25	0.88	2.14	4.16	4.61	3.06	1. 28	2. 94	0.30	1.59	26. 80
1967	2.71	0.80	2.38	2.50	2.42	8.11	0.55	2.48	1. 01	2. 41	0.33	0.38	26. 08
1968	0.85	0.17	0.82	6.99	5.11	9.93	6.22	1.84	6. 50	3. 12	0.69	2.51	44. 75
1969	2.56	T	1.22	1.23	1.98	6.26	5.05	0.67	2. 50	3. 73	0.94	1.85	27. 99
1970	0.49	Т	2.68	2.33	7.05	3.57	3.45	2.88	5. 43	5. 13	2.95	1.58	37. 54
1971	2.11	2.00	1.01	0.97	5.77	3.28	4.78	0.90	3. 55	1. 94	2.02	1.30	29. 63
1972	0.66	0.43	1.66	1.63	1.72	4.92	7.88	4.47	9. 39	3. 84	1.84	2.20	40. 64
1973	1.11	0.69	3.42	5.44	5.98	3.35	3.14	8.55	5. 33	1. 26	2.63	1.59	42. 49
1974	0.51	1.77	2.67	2.42	4.87	4.27	1.19	4.73	2.	2.	0.96	1.25	29.
1975	1.23	1.54	2.23	5.57	3.33	5.66	1.30	4.23	55 1.	0.	3.96	1.37	19 32.
1976	0.95	0.50	4.00	4.41	2.64	1.47	2.11	0.77	47 0.	0.	Т	0.34	23 18.
1977	M0.40		3.65	2.91	2.86	4.11	4.16	3.71	96 3.	45 3.	1.27	M1.	60 30.
1978	0.96	0.31	0.40	2.86	4.92	6.00	12.64	3.62	20 3.	28 1.	1.39	01 0.99	56 38.

1070	- 05	1.07	2.21		5.00	0.00	0.44	7.10	52	05		0.50	66
1979	1.35	1.27	2.91	1.47	5.09	3.02	2.44	7.12	1. 07	4. 21	2.57	0.50	33. 02
1980	1.08	0.36	0.97	1.30	5.07	4.62	2.63	9.31	13. 13	2. 18	0.16	0.57	41. 38
1981	0.10	3.15	0.69	4.48	1.41	3.02	4.87	8.11	2. 17	1. 75	M0. 91	1.22	31. 88
1982	M1.86	0.18	2.12	2.76	5.02	1.26	2.90	3.42	6. 60	5. 62	3.78	3.17	38. 69
1983	1.40	1.71	1.09	3.55	6.17	2.23	5.22	2.96	M5. 51	3. 69	4.86	M0. 94	39. 33
1984	M0.27	1.61	1.66	4.05	2.11	5.65	3.50	2.15	3. 21	5. 23	1.14	M1. 08	31. 66
1985	1.00	0.58	3.32	1.70	1.09	3.31	2.85	5.83	5. 64	1. 14	M4. 09	1.98	32. 53
1986	0.71	M0.84	1.63	2.38	1.76	4.15	6.64	1.94	M9. 36	3. 81	0.64	0.49	34. 35
1987	M0.75	0.00	2.01	2.55	4.40	M3.41	7.10	4.00	1. 35	0. 35	3.23	M1. 11	30. 26
1988	1.63	0.22	1.46	1.73	1.46	M2.28	1.80	5.16	4. 93	0. 69	3.70	0.76	25. 82
1989	0.40	0.34	2.15	2.05	5.56	M1.00	3.34	3.03	1. 04	3. 59	1.10	1.03	24. 63
1990	0.62	0.61	2.45	5.64	4.67	7.06		7.43	1. 43	1. 97	0.61	M1. 54	34.
1991	0.84	0.13	M1.14	4.48	5.33	2.01	11.05	3.96	4. 4. 42	2. 14	M6. 73	1.95	03 44.
1992	0.44	0.52	2.60	4.91	2.26	1.89	4.02	M3.17	M8.	0.		1.42	18 33.
1993	0.90	M0.92	1.43	7.13	5.20	7.59	6.55	M5.24	01 M1.	66 M0.	1.02	0.48	56 39.
1994	1.37	0.66	0.26	6.07	1.92	2.11	3.65	5.40	81 4.	77 1.	1.40	0.39	04 29.
1995	0.50	0.02	2.73	3.41	3.12	2.04	3.85	4.91	43 2.	84 4.	0.96	0.53	50 28.
1996	3.74	0.26	2.23	1.33	1.87	4.59	2.29	2.23	1.	26 3.	M5.	1.24	67 30.
1997	1.24	0.84	2.30	0.70	4.43	2.29	M6.14	5.03	70 3.	06 2.	57 0.25	0.34	11 29.
1998	M1.50	3.06	M2.57	2.24	3.61	7.77	2.62	7.72	15 0.	69 4.	1.59	M0.	40 37.
1999	M1.50	M0.50	M0.75	5.87	3.97	2.42	9.20	3.48	18 2.	43 1.	1.65	13 0.36	42 33.
2000	0.92	0.62	1.10	1.20	5.34	7.47	3.28	3.78	02 2.	64 1.	2.56	1.28	36 30.
2001	1.12	0.80	0.71	4.78	5.07	3.25	2.40	5.02	06 6.	11 1.	1.94	0.94	72 33.
2002	0.28	1.96	1.29	3.52	1.02	5.35	3.35	3.81	14	22		0.46	39 27.
2003	0.43	0.66	1.82	2.97	4.50	2.28	2.01	1.91	11	21		1.04	62 22.
2004	0.60	0.99	2.16	1.76	9.51	5.87	6.48	3.17	34 5.	63	1.86		93
2005					2.84	2.58			85	43			58
	1.48	1.71	1.79	2.30			3.72	5.20	7. 59	0. 43	1.56		31. 91
2006	0.39	1.01	2.93	3.76	4.12	3.06	2.56	4.37	3. 14	0. 61	1.46		28. 44
2007	M0.83	1.95	2.70	2.08	3.56	2.81	2.46	10.62	2. 34	3. 38		2.67	35. 43
2008	1.55	0.60	0.30	8.46	3.33	2.92	4.32	1.35	1. 20	0. 91	1.68	3.75	30. 37
2009	0.63	0.76	0.92	2.92	3.45	2.39	1.57	6.00	1. 64	6. 42	0.51	2.46	29. 67
2010	0.81	0.95	0.72	1.90	3.93	8.17	4.26	4.74	8. 95	1. 50	2.18	1.62	39. 73
2011	0.67	1.01	3.77	4.62	2.58	3.42	5.22	M1.80	2. 72	1. 46	1.05	1.16	29. 48
2012	0.86	1.26	1.63	1.62	4.73	1.95	2.17	2.89	1.	4.	0.69	1.20	24.

									14	12			26
2013	0.87	1.14	2.00	5.62	9.52	4.05	2.93	1.45	1. 48	5. 03	1.14	1.06	36. 29
2014	0.97	1.33	0.77	7.26	2.88	8.19	2.75	4.46	3. 60	3. 31	1.14	1.03	37. 69
2015	0.48	0.50	1.17	4.43	5.57	5.18	5.62	3.13	3. 63	1. 88	1.81	4.78	38. 18
2016	0.90	0.82	3.94	1.00	3.05	6.56	8.92	7.68	10. 27	2. 36	1.40	2.11	49. 01
2017	2.42	1.19	2.14	4.80	5.12	5.33	9.75	3.05	1. 32	5. 59	0.51	0.43	41. 65
2018	1.53	1.12	M0.74	3.59	7.05	5.59	3.30	3.45	6. 28	4. 02	2.46	2.13	41. 26
2019	1.34	4.20	1.66	3.74	7.53	4.70	6.56	3.05	6. 61	M2. 49			41. 88

Notes: Data missing in any month have an "M" flag. A "T" indicates a trace of precipitation.

Data missing for all days in a month or year is blank.

Creation date: 2016-07-22