

Memorandum

To:

Scott McCurdy, Cedar Corporation

From:

Kelly J. Bopray PSS CWD

Subject:

TDI #13 Site, Menomonie, Wisconsin, Wetland Determination

BES 2012-025

Date:

August 15, 2012

On August 13, 2012, Bopray Environmental Services (BES) conducted an on-site wetland determination in accordance with the U.S. Army Corps of Engineers "Wetland Delineation Manual" and the "Midwest Regional Supplement" for City of Menomonie's TID #13 Site. The site is located in an industrial park in Sec. 8, T28N, R12W along County Trunk Highway B, in Dunn County, Wisconsin (**Figure 1**). Based on a review of available resource data BES has determined the preponderance of evidence shows that there are no wetlands on the site.

Specific Findings

The Dunn Soil Survey (**Figure 2**) indicates the site is mapped as Dakota silt loam (403B), Rasset sandy loam (413A, 413B), Finchford loamy sand (501B) and Plainfield sand (511F). All of these soils are listed as non-hydric soils map unit. The Wisconsin Wetland Inventory (**Figure 3**) map does not identify any wetlands on the site. Aerial photographs do not show any signs of crop stress due to wetness on the site. There appears to be a non-farmed area along the west side of the site, but that is a soil stock pile berm.

The site is fairly flat according to the USGS topographic map (**Figure 4**). The herbaceous vegetation is dominated by a monocultures of corn (*Zea maze*) and soybeans (*Glycine max*) with almost no volunteer weed species. The Crop was in excellent condition with no evidence of stress due to wetness. There is a manmade stormwater pond/infiltration basin in the east central part of the site. This basin is dominated by upland plant species, had not developed hydric soils features and had no visible hydrology indicators (Attached data sheet). According to the Wisconsin State Climatology Office's webpage, the area was at 75-100% of average precipitation for the preceding 30 days and for the preceding 90 day periods. The site fails to meet the three mandatory wetland criteria. Ground level photographs of the site are attached as **Figure 5**.

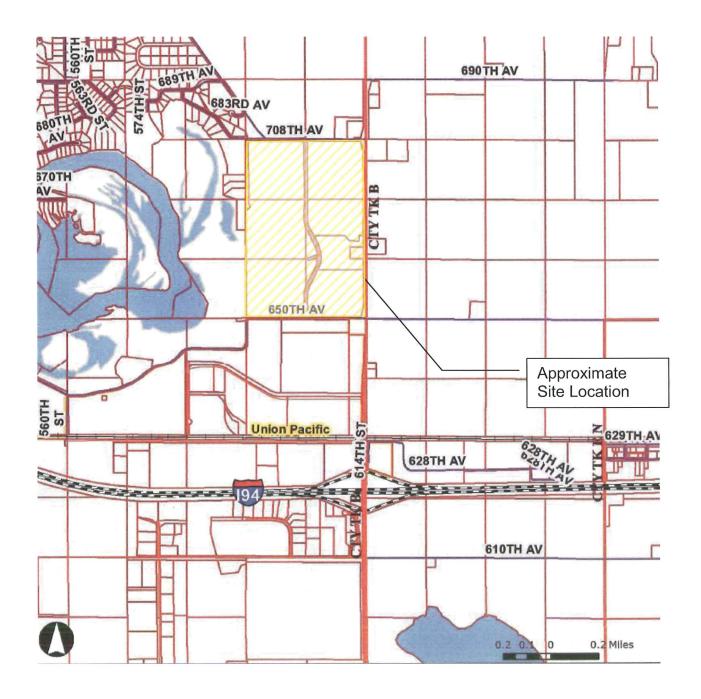




Figure 1. Location Map

TDI #13 Site Menomonie, Wisconsin

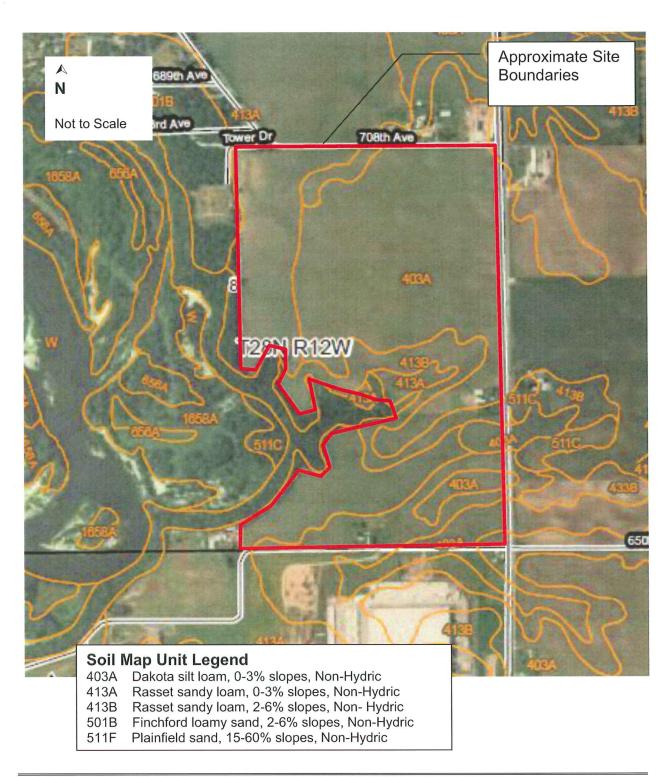




Figure 2. Dunn County Soil Survey

TDI #13 Site Menomonie, Wisconsin

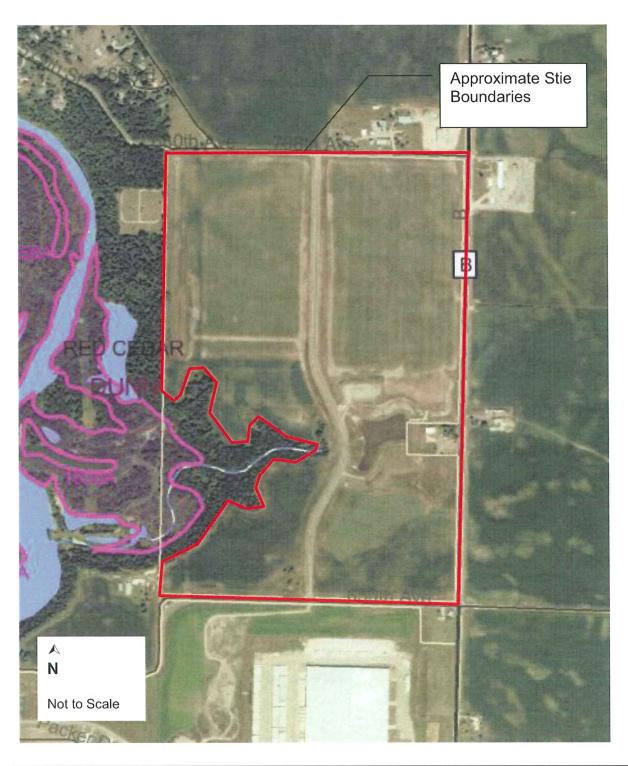




Figure 3. Wisconsin Wetland Inventory Map

TID #13 Site Menomonie, Wisconsin

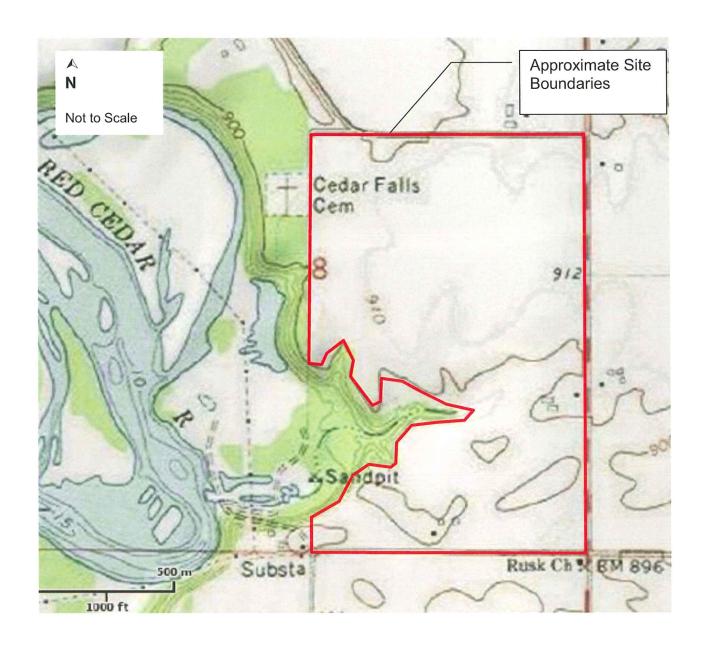




Figure 4. USGS Topographic Map

TDI #13 Site Menomonie, Wisconsin



General view of the northern part of the site. Corn is being grown on the majority of the site. There is a soil stock pile berm along the west side of the site. Soybeans are being grown in the southwest quadrant of the site. There was no indication of wetness stress in the field or on aerial photos.



General view of the stormwater pond/infiltration basin in the east central part of the site. Although it is designed to receive large volumes of surface run off, the plant community is not hydrophytic and hydric soils have not developed in the basin.



Figure 5. Ground Photos TDI #13 Site Menomonie, Wisconsin

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site TDI #13 stormwater pond/infiltration basin	City/County:	Menomonie/[Dunn Sampling Date: 8/13/2012
Applicant/Owner: City of Menomonie	State:	Wiscons	sin Sampling Point: A1
Investigator(s): Kelly Bopray, PSS, CWD	Sec	ction, Township	, Range: Sec. 8, T28N, R12W
Landform (hillslope, terrace, etc.): man-made depre	ession Loca	I relief (concave	e, convex, none): concave
Slope (%): 0-2% Lat:	Long:		Datum:
Soil Map Unit Name N/A because excavation has removed	the native soil pro	ofile VWI C	lassification: not Id'ed on WWI
Are climatic/hydrologic conditions of the site typical for this	time of the year?	Y (If	no, explain in remarks)
Are vegetation X , soil X , or hydrology	X significan	tly disturbed?	Are "normal circumstances"
Are vegetation , soil , or hydrology	naturally	problematic?	present? Yes
SUMMARY OF FINDINGS			(If needed, explain any answers in remarks.)
Hydrophytic vegetation present? N			
Hydric soil present? N	Is the	sampled area	within a wetland? N
Indicators of wetland hydrology present? N	f yes, o	optional wetland	d site ID:non-wetland
Remarks: (Explain alternative procedures here or in a sepa	arate report.)		
This basin is a man-made basin that was exca	vated and reve	getated. Larg	ge volumes of surface water run-off are
directed into the basin.			
VEGETATION Use scientific names of plants.			MANUAL MA
Ab	solute Dominan	Indicator	Dominance Test Worksheet
Tree Stratum (Plot size: 30 ft) %	Cover t Species	Staus	Number of Dominant Species
1			that are OBL, FACW, or FAC: 0 (A)
2			Total Number of Dominant
3			Species Across all Strata: 2 (B)
5			Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)
	0 = Total Cov		that are OBL, PACW, OF PAC. 0.00% (A/B)
Sapling/Shrub stratum (Plot size: 15 ft)	- 1010, 001	· ·	Prevalence Index Worksheet
1			Total % Cover of:
2			OBL species $0 \times 1 = 0$
3			FACW species 10 x 2 = 20
4			FAC species 7 x 3 = 21
5			FACU species 91 x 4 = 364
Harb stratum (Dist size) 5 #	0 = Total Cov	er	UPL species $0 \times 5 = 0$
Herb stratum (Plot size: 5 ft)	40)/		Column totals 108 (A) 405 (B)
	40 Y	FACU	Prevalence Index = B/A = 3.75
	20 Y 10 N	FACU FACU	Hydrophytic Vegetation Indicators:
	10 N	FACW	Rapid test for hydrophytic vegetation
	10 N	FACU	Dominance test is >50%
6 Ambrosia artemisiifolia	7 N	FACU	Prevalence index is ≤3.0*
7 Poa pratensis	5 N	FAC	Morphogical adaptations* (provide
8 Potentilla simplex	2 N	FACU	supporting data in Remarks or on a
9 Ambrosia trifida	2 N	FAC	separate sheet)
10 Asclepias syriaca	2 N	FACU	Problematic hydrophytic vegetation*
<u> </u>	108 = Total Cov	er	(explain)
Woody vine stratum (Plot size: 30 ft)			*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
2		-	Hydrophytic
	0 = Total Cov	er l	vegetation
			present? N
Remarks: (Include photo numbers here or on a separate s	heet)		

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Sampling Point:

A1

Depth	<u>Matrix</u>		· -	dox Feat					
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Textu	re	Remarks
0-14	10YR 2/2						sandy loam		
14-25+	10YR 5/3						sand		
					 				
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	Concentration, D	= Deplet	on, Rivi = Reduce	ed iviatrix	(, IVIS = IV	lasked S			on: PL = Pore Lining, M = Matr
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	tic Epipedon (A2)			ndy Redo					7) (LRR K, L)
	ck Histic (A3)				trix (S6)				at or Peat (S3) (LRR K, L, R)
	lrogen Sulfide (A4	•			ky Minera				e Masses (F12) (LRR K, L, R)
	tified Layers (A5))			ed Matrix				ark Surface (TF12)
	n Muck (A10)				atrix (F3)		Other	(explain ir	n remarks)
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****	ck Dark Surface (•			ark Surfa				rophytic vegetation and weltan
Sar	idy Mucky Minera	l (S1)	Red	lox Depr	essions ((F8)	hydro	logy must l	be present, unless disturbed o
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