



November 27, 2006

Mr. Dick Klaas Madison Metropolitan Sewerage District 1610 Moorland Road Madison, WI 53713-3398

Wetland Delineation Subject:

West Interceptor Extension Replacement

Town of Middleton Dane County, Wisconsin

Dear Mr. Klaas:

This correspondence summarizes the results of the wetland delineation completed by Earth Tech on October 26 and 30, 2006, for the Madison Metropolitan Sewerage District (MMSD) West Interceptor Extension Replacement project. The study area for this project is approximately 15 acres in size and is located in the NE 1/4 of Section 12, Township 7 North, Range 8 East, in the Town of Middleton, Dane County, Wisconsin. The corridor is approximately 2,900 feet long, which includes 1,700 lineal feet within Lakeview Community Park and 1,200 lineal feet through apartment complexes and parking lots. The project area is located west of Allen Boulevard and extends from Mendota Avenue northward to approximately 200' south of CTH M (Figure 1, Attachment A).

PROJECT OBJECTIVES

The objective of this wetland delineation is to delineate the wetlands located within the project study area that are subject to State and Federal jurisdiction under Section 404 and Section 401 of the Clean Water Act, as determined by the regulations and procedures of the U.S. Army Corps of Engineers (USACE) and the Wisconsin Department of Natural Resources (WDNR).

The procedures outlined in the USACE Wetland Delineation Manual (Environmental Laboratory, 1987) (herein referred to as "the 1987 Manual") were used to complete this assessment. Under the Federal USACE regulation, for a site to be considered jurisdictional wetland, it must first be a "water of the United States" and be a physical wetland. To be considered a physical wetland, the site must meet the following criteria as established in the 1987 Manual:

- More than 50 percent of the dominant vegetation species in a suspect area must have a wetland indicator status of facultative, facultative wet, or obligate according to the National List of Plant Species That Occur in Wetlands: Region 3 (U.S. Fish and Wildlife Service, 1988).
- The soils at a suspect wetland must be hydric, as determined by the National Technical Committee on Hydric Soils.

 The suspect area must be saturated or inundated within 12 inches of the surface for at least 1 week during the growing season.

Under normal conditions, a site must meet all three criteria to be considered a physical wetland. An area may be a physical wetland, but not be a jurisdictional wetland (i.e., subject to jurisdiction of the USACE under Section 404 of the Clean Water Act) if the situation is exempted under law, regulation, or policy. If a wetland does not fall under the jurisdiction of the USACE, it may still fall under the jurisdiction of WDNR.

FIELD RECONNAISSANCE METHODOLOGY

On October 26 and 30, 2006, an Earth Tech wetland scientist conducted a wetland delineation within the project area. The purpose of the delineation was to identify potential wetland areas and evaluate whether the three mandatory criteria of hydrophytic vegetation, hydric soils, and wetland hydrology were present. These three criteria were used to delineate the upland/wetland boundaries of wetlands located within the project area.

The vegetation was assessed to determine the dominant species in the tree, shrub, and herbaceous vegetation strata. The percentage of areal cover was visually estimated for each species at the suspect location. Hydrophytic vegetation boundaries were identified to aid in locating the approximate upland/wetland boundary based on the percentage of hydrophytic plant species versus upland species. Vegetation information was recorded on USACE Data Forms, presented in Attachment B.

The presence or absence of hydric soils was assessed through use of a soil probe to collect soil cores. Soil descriptions were completed at each soil core location using Munsell soil color charts, U.S. Department of Agriculture (USDA) soil texture, moisture content, special features, and horizon designation. Soil core locations were selected to represent wetland and non-wetland areas. The wetland boundary was determined by first completing a wetland core then completing additional upgradient soil cores as needed to determine the boundary. Soil core locations were selected by examining local topographical characteristics, as well as the extent of dominant hydrophytic vegetation. Soil conditions were recorded on USACE Data Forms.

Wetland hydrology was determined through observation of saturated soil conditions and evaluation of surficial hydrologic indicators. Typical surface hydrologic indicators may include standing water, water-stained leaves, drift lines, and high-water marks. Hydrology information was recorded on USACE Data Forms.

Wetland functional value was assessed for each wetland identified by completing the WDNR form entitled "Rapid Assessment Methodologies for Determining Wetland Functional Values". The summary page of each evaluation is included in Attachment C. Photographs of the wetland areas were taken at various locations and are included in Attachment D.

The wetland/upland boundary was surveyed using a Trimble GeoXT® Global Positioning System (GPS) which is listed as having sub-meter accuracy.

BACKGROUND INFORMATION

Available background information from government agency documents and private sources, where available, were collected and reviewed. This material provided a first screening as to the known or possible existence of wetlands on the property. The documents reviewed were:

- Soil Survey of Dane County, Wisconsin (USDA, 1978)
- Hydric Soils List for Dane County, Wisconsin (Natural Resource Conservation Service, 1996)
- USGS 7.5-Minute Topographic Quadrangle Map, Madison West, Wisconsin (USGS, 1983)
- Digital Wisconsin Wetland Inventory (WWI), T7N, R8E, Dane County, Wisconsin (WDNR 1997)

The USGS topographic map indicates nearly level topography along the project corridor, with surface water drainage to the east toward Lake Mendota. A copy of the USGS topographic map (Figure 1) is included in Attachment A.

The digital WWI data does not show any wetlands located within or adjacent to the project area. The excavated pond in Lakeview Community Park is identified as W0Hx. A copy of the digital WWI Map (Figure 2) is included in Attachment A.

The Soil Survey of Dane County indicates that there are four soil units mapped within the project area. The four soil units include Adrian muck (Ad), Granby loamy sand (Gn), Grays silt loam, 6 to 12 percent slopes (GsB), and Houghton muck (Ho). According to the Hydric Soils List for Dane County, Ad, Gn, and Ho are listed as hydric soils. The soils map for the project area (Figure 3) and the Hydric Soils List for Dane County are included in Attachment A.

WETLAND DELINEATION RESULTS

Three wetland areas (Area A, Area B, and Area C) were delineated within the project area during the site reconnaissance (Figure 4A, Attachment E).

Wetland Area A (see Figure 4B) is a small depressional wetland located near the northeast corner of the tennis courts in Lakeview Community Park. This wetland was dominated by soft-stem bulrush (*Schoenoplectus tabernaemontani*), spikerush (*Eleocharis* sp.), and sphagnum moss (*Sphagnum* sp.). Wetland criteria we met in this area due to the dominance of hydrophytic vegetation, positive hydrology indicators, and presence of hydric soils. Wetland Area A is approximately 260 square feet in size (0.006 acres) and was evaluated to have low wetland functional values.

Wetland Area B (see Figure 4C) is a predominately forested wetland that is located in the northern portion of Lakeview Community Park. This wetland contains an intermittent drainageway that receives stormwater discharge from a large concrete culvert and eventually flows out of the park toward Lake Mendota. This wetland area is divided by a paved walking

path, so there is an east and west component of Wetland Area B that are separated by the paved walkway.

North of the intermittent drainageway, the east and west components of Area B are dominated by cottonwood (Populus deltoides), silver maple (Acer saccharinum), box elder (Acer negundo), glossy buckthorn (Rhamnus frangula), red elderberry (Sambucus racemosa), American elderberry (Sambucus canadensis), white avens (Geum canadense), large-leaf avens (Geum macrophyllum), dames rocket (Hesperis matronalis), wild black currant (Ribes americanum), and garlic mustard (Alliaria petiolata). South of the drainageway, Area B is a mix of forested and wet meadow communities. Forested areas are dominated by most of the same species as the forested areas north of the drainageway. The wet meadow communities are dominated by reed canary grass (Phalaris arundinacea), late goldenrod (Solidago gigantea), white avens, large-leaf avens, blue-joint grass (Calamagrostis canadensis), American elderberry, field thistle (Cirsium arvense), tall goldenrod (Solidago canadensis), devil's beggar-ticks (Bidens frondosa), common burdock (Arctium minus), enchanter's nightshade (Solanum dulcamara), stinging nettle (Urtica dioica), and an aster (Aster sp.). The east and west components of Area B were both dominated by hydrophytic vegetation and were found to have hydric soils. Though no wetland hydrology indicators we observed at the time of the field investigation, it was assumed that wetland hydrology must be present at some time during the growing season in order for wetland vegetation to grow and for hydric soils to be present. Wetland Area B is greater than 4 acres in size and was evaluated to have medium wetland functional values.

Wetland Area C (see Figure 4B) consists of a wetland restoration area in Lakeview Community Park that was created by the local Kiwanis Club. This area is no longer mowed and wet meadow wetland species have re-established. Dominant vegetation within this wetland area include late goldenrod (Solidago gigantea), giant sunflower (Helianthus giganteus), cup plant (Silphium perfoliatum), great St. Johnswort (Hypericum ascyron), blue vervain (Verbena hastata), and asters. This area was dominated by hydrophytic vegetation and hydric soils were found to be present. Though no wetland hydrology indicators we observed at the time of the field investigation, it was assumed that wetland hydrology must be present at some time during the growing season in order for wetland vegetation to grow and for hydric soils to be present. Wetland Area C is approximately 0.28 acres in size and was evaluated to have low to medium wetland functional values.

STREAM CHARACTERIZATION

One unnamed intermittent stream (see Figure 4C) was identified within the project area (Figure 4, Attachment E). This stream receives stormwater discharge from a large concrete culvert located on the west side of Lakeview Community Park and flows east out of the park toward Lake Mendota. It appears that the stream banks have been cut down and the channel scoured out periodically by large volumes of stormwater discharged by the culvert. The average stream bank height is approximately 3 feet and the average channel width is approximately 5 feet. Much of the channel had approximately 6 inches of standing water at the time of the field investigation.

ISOLATED/NON-ISOLATED JURISDICTIONAL DETERMINATION

Earth Tech has reviewed the hydrologic characteristics for each of the delineated wetland areas pursuant to the Supreme Court's January 9, 2001, decision in Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers (herein referred to as the "SWANCC decision"). The SWANCC decision states that Section 404 of the Clean Water Act does not apply to isolated, non-navigable, wholly intrastate waters, where the only connection between the water body (or wetland) and interstate commerce is the use of the water as habitat for migratory birds.

"Waters of the United States" are defined as meeting one of the following criteria: 1) a "navigable water" as defined by Federal law; 2) an interstate water; 3) part of a tributary system to 1) or 2); 4) a wetland adjacent to a navigable water; or 5) an impoundment to any of the above.

The evaluations showed that wetland Areas A and C were isolated, non-jurisdictional wetlands. Wetland B, however is likely to be considered a "Waters of the United States" because it is adjacent to a tributary of Lake Mendota, which has a hydrological connection to the Yahara River. This conclusion is the opinion of Earth Tech. The final authority over wetland jurisdiction is the responsibility of the project applicant and the appropriate State and Federal agencies.

SUMMARY

Earth Tech completed a field reconnaissance of the West Interceptor Extension Reconstruction project area in October 2006, and delineated three wetland areas (Area A, Area B, and Area C) within the project area. Area A is a small wet meadow wetland with low wetland functional values. Area B is a moderate sized forested wetland and wet meadow complex with medium wetland functional values. Area C is a small restored wet meadow wetland with low to medium wetland functional values. All three areas meet the wetland criteria as outlined by the USACE. Wetland Area B is likely to be deemed a jurisdictional wetland by USACE, while Areas A and C are likely isolated, non-jurisdictional wetlands.

A Section 404 Department of Army Permit is required to discharge dredged and/or fill material into non-isolated wetlands, and water quality certification under Section 401 of the Clean Water Act is also required for impacts to all wetlands in accordance with USACE and WDNR regulations. A Chapter 30 Permit will be required if more than 10,000 ft² of surface area will be impacted within 75 feet of the unnamed intermittent stream that flows through wetland Area B.

If you have any questions regarding the wetland delineation, please give me a call at (920) 451-2424.

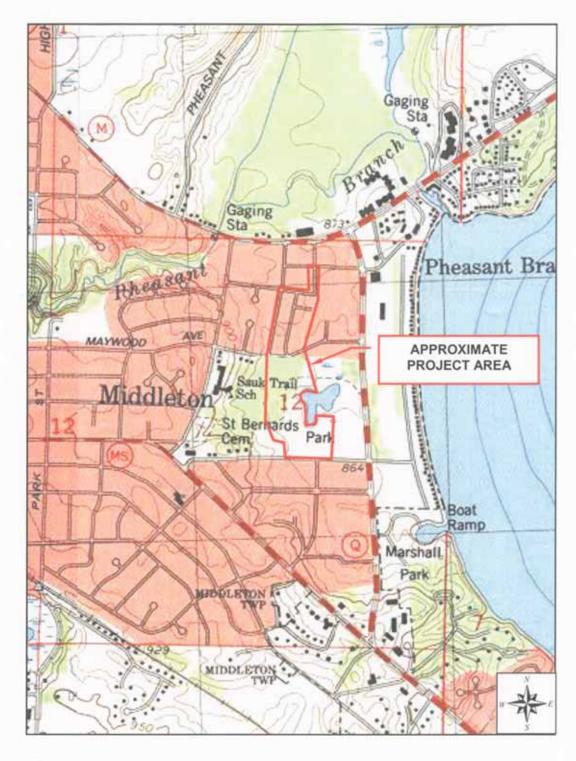
Sincerely,

Ann Amelse Environmental Scientist

Enclosures: As Noted

ATTACHMENT A

- FIGURE 1 SITE LOCATION MAP (USGS TOPOGRAPHIC MAP) FIGURE 2 WISCONSIN WETLAND INVENTORY (WWI) MAP
- WWI MAP LEGEND
- FIGURE 3 SOIL SURVEY MAP
- DANE COUNTY HYDRIC SOILS LIST



Note: Not to Scale

Source: USGS 7.5-Minute Topographic Quadrangle, Madison West, WI (1983)

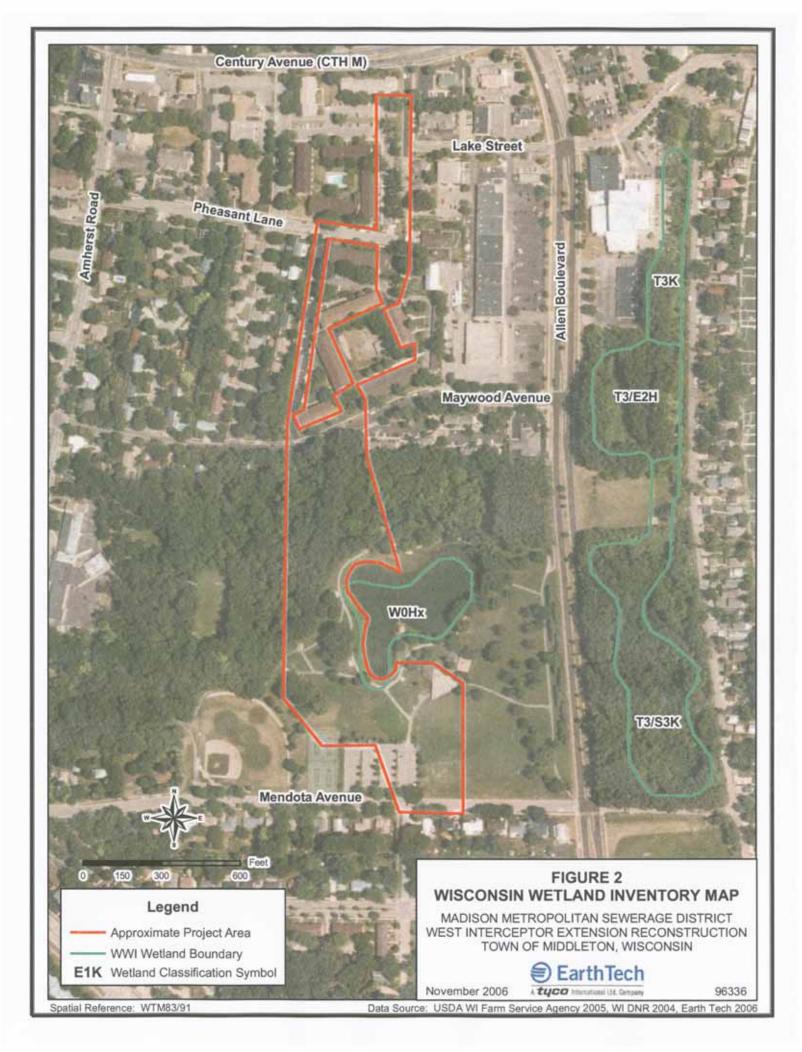


FIGURE 1 SITE LOCATION MAP

MADISON METROPOLITAN SEWERAGE DISTRICT WEST INTERCEPTOR EXTENSION RECONSTRUCTION TOWN OF MIDDLETON, WISCONSIN

NOVEMBER 2006

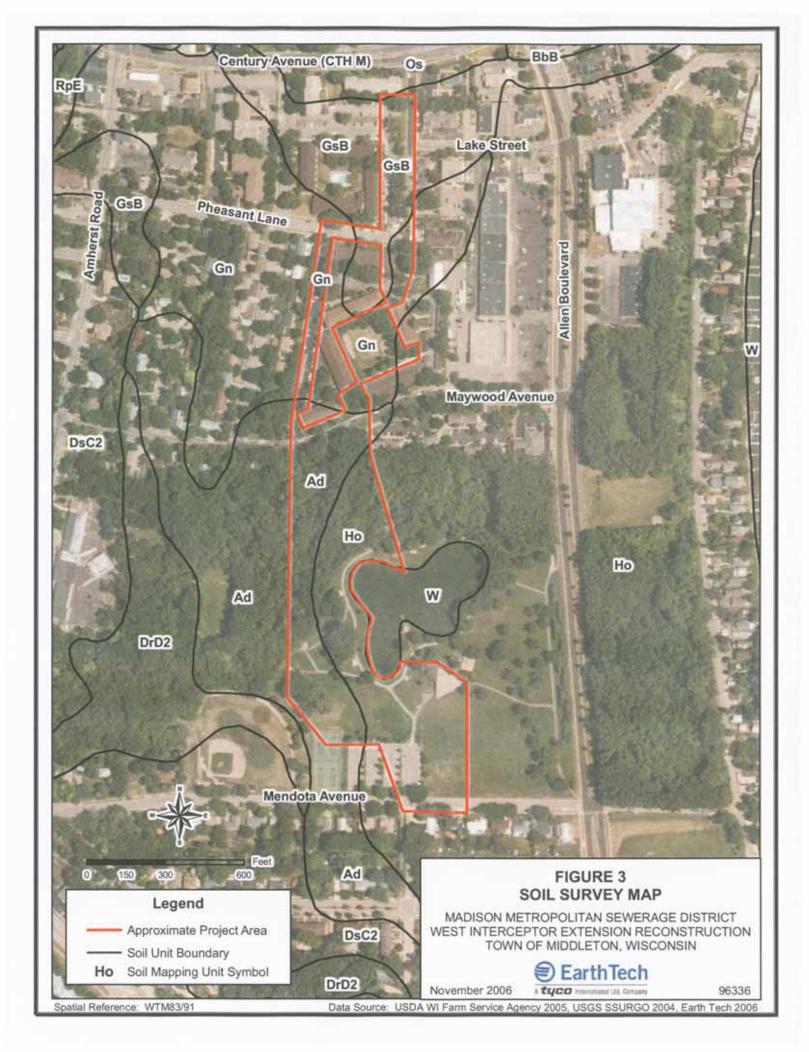
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WISCONSIN WETLAND INVENTORY WETLAND TYPES

	CLASS		SUBCLASS
Symbol	Definition	Symbol	Definition
А	Aquatic Bed	1 2 3 4	Submergent Floating Rooted Floating Free Floating
M	Moss		
E	Emergent Wet Meadow	1 2 3 4 5 6	Persistent Narrow-leaved Persistent Broad-leaved Persistent Nonpersistent Narrow-leaved Nonpersistent Broad-leaved Nonpersistent
s	Scrub/Shrub	1 2 3 4 5 6 7 8	Deciduous Needle-leaved Deciduous Broad-leaved Deciduous Evergreen Needle-leaved Evergreen Broad-leaved Evergreen Dead Needle-leaved Broad-leaved
т	Forested	1 2 3 5 7 8	Deciduous Needle-leaved Deciduous Broad-leaved Deciduous Needle-leaved Evergreen Dead Needle-leaved
F	Flats/Unvegetated Wet Soil	0 1 2 3 4 5	Subclass Unknown Cobble/Gravel Sand Mud Organic Vegetated Pioneer
w	Open Water	0 1 2 3 4	Subclass Unknown Cobble/Gravel Sand Mud Organic

	Hydrologic Modifier		Special Modifiers (continued)
L	Standing Water, Lake	j.	Central Sands Complex
R	Flowing Water, River	m	Floating Vegetated Mats
Н	Standing Water, Palustrine	s	Ridge and Swale Complex
K	Wet Soil, Palustrine	V	Vegetation Recently Removed
		W	Floodplain Complex
	Special Modifiers	X	Excavated
а	Abandoned Cropland	Z	Evidence of Muskrat Activity
C	Man-made Cranberry Bog		Map symbols
е	Exposed Flats Complex		
f	Farmed in Dry Years		U Upland surrounded by wetland Wetland — upland boundary
g	Grazed		Wetland - deep water lake
	1		Level ditch
			Stream or drainage ditch
			Road
			Dike, levee, abundoned raffroad
			Same classification on both
			sides of linear feature
H	ydrologic Modifier		de Wetland smaller than
			2 Heres
	*		△ Dammed pond smaller than 2 acres
	E1Va		E) Excavated pond smaller than
lass \rightarrow	E1Ka ← Special Modifier		2 acres
			✓ Man-made dam
	T		ov Spring within a wetland
	0-1-1		Be Filled land adjacent to wetland
	Subclass		Filled land adjacent to wetland County boundary
			Township boundars
			Charles Overlap of orthophotoquad
			on township base map
			Area may no longer be
			wetland, not field verified Area no tonger wetland; field



HYDRIC SOIL LIST FOR DANE COUNTY, WISCONSIN

MAP SYMBOL	MAP UNIT NAME		HYDRIC COMPONENT HYDRIC INCLUSION	HYDRIC CRITERIA	LOCAL LANDFORM	NATURAL
Ad	ADRIAN MUCK	(0)) ADRIAN	11,3		Farmable
H.	ALLUVIAL LAND, WET	0) ALLUVIAL LAND, WET	1 2B3,3,4		Wooded
0	COLWOOD SILT LOAM		(C) COLWOOD			Farmable
DeA	DELLS SILT LOAM, 0 TO 3 PERCENT SLOPES	(I)) Marshan soils	 283,3 283,3	Depression Depression	Farmable Farmable
DfA	DEL REY SILT LOAM, 0 TO 3 PERCENT SLOPES	(I)) Montgomery soils	2B3,3	Depression	Wooded
Eff	ELBURN SILT LOAM, 1 TO 4 PERCENT SLOPES	££	Sable soils Wacousta soils	2B3,3	Depression	Farmable Farmable
EgA	ELBURN SILT LOAM, GRAVELLY SUBSTRATUM, 0 TO 3 PERCENT SLOPES	££	Sable soils Maucousta soils	2B3,3	Depression	Farmable
Εv	ELVERS SILT LOAM	(C)) ELVERS	1 283,3,4		Wooded
Gn	GRANBY LOAMY SAND	(0)	GRANBY	1 282,3		Farmable
Над	HAYFIELD SILT LOAM, 0 TO 3 PERCENT SLOPES		(I) Marshan soils		Denression	er a l'dem

HYDRIC SOIL LIST FOR DANE COUNTY, WISCONSIN

Sections	Section 11 recuircal duide - hydric sc	SOLL INVELPRELACIONS		January 19,	, 1996
MAP SYMBOL	MAP UNIT NAME	(C) HYDRIC COMPONENT (I) HYDRIC INCLUSION	HYDRIC	LOCAL LANDFORM	NATURAL
Н	HOUGHTON MUCK	(C) HOUGHTON	1,3		Farmable
HuA	HUNTSVILLE SILT LOAM, 0 TO 2 PERCENT SLOPES	(I) Wetter soils	1 1 2B3,3	Depression	Wooded
HuB	HUNTSVILLE SILT LOAM, 2 TO 6 PERCENT SLOPES				
		(I) Wetter soils	1 283,3	Depression	Wooded
WcB	KICKAPOO FINE SANDY LOAM, 2 TO 6 PERCENT SLOPES	(I) Wetter soils	2B3,3	Depression	Wooded
Mb	MARSH	(C) MARSH	1,3		Farmable
MC	MARSHAN SILT LOAM	(C) MARSHAN	 2B3,3		Farmable
MoA	MONTGOMERY SILTY CLAY LOAM, 0 TO 3 PERCENT SLOPES	(C) MONTGOMERY	 2B3,3		Wooded
Or	ORION SILT LOAM	(I) Orion, wet soils	1 2B3,3	Depression	Wooded
so	ORION SILT LOAM, WET	(C) ORION, WET (I) Otter soils (I) Wacousta soils (I) Sable soils	2B3,3 2B3,3 2B3,3 2B3,3	Floodplain Drainageway	Wooded Wooded Farmable Farmable
ot ot	OTTER SILT LOAM	(C) OTTER	2B3,3		Wooded

HYDRIC SOIL LIST FOR DANE COUNTY, WISCONSIN

MAP SYMBOL	MAP UNIT NAME	(C) (C)	HYDRIC COMPONENT HYDRIC INCLUSION	HYDRIC CRITERIA	LOCAL LANDFORM	NATURAL
- L	PALMS MUCK	(0)	PALMS	1,3		Farmable
RaA	RADFORD SILT LOAM, 0 TO 3 PERCENT SLOPES	££	Sable soils Otter soils	2B3,3	Depression Depression	Farmable Wooded
SaA	SABLE SILTY CLAY LOAM, 0 TO 3 PERCENT SLOPES	9	SABLE	1 2B3,3		Farmable
ShA	SALTER SANDY LOAM, WET VARIANT, 0 TO 3 PERCENT SLOPES	£8	Wacousta soils Colwood soils	2B3,3 2B3,3	Depression Depression	Farmable
TrB	TROXEL SILT LOAM, 1 TO 3 PERCENT SLOPES	E	Wetter soils	283,3	 Depression	Farmable
VwA	VIRGIL SILT LOAM, GRAVELLY SUBSTRATUM, 0 TO 3 PERCENT SLOPES	£	Wetter soils	 283,3	 Depression	Farmable
Wa	WACOUSTA SILTY CLAY LOAM	(C)	WACOUSTA	283,3		Farmable
Wt	WATSEKA LOAMY SAND	89	Granby soils Marshan soils	283,3	Depression	Farmable

ATTACHMENT B USACE ROUTINE WETLAND DETERMINATION DATA FORMS

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) West Interceptor Extension Replacement, Town of Middleton Date: 10/26/06 Applicant/Owner: Madison Metropolitan Sewerage District County: Dane Investigator #1: Ann Amelse Wisconsin State: Do Normal Circumstances Exist On The Site? X Yes No Community ID: Wetland A Is The Site Significantly Disturbed (Atypical Situation)? X No Station 1D: Yes is The Area A Potential Problem Area? Yes X No Plot ID: 51 (If yes, define below.) Remarks: --VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status Stratum % Cover Schoenoplectus tabernaemontani OBL HERB 40 Eleocharis sp. UNK HERB 40 8. OBL HERB Sphagnum sp. 20 9 4. 10. 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant HYDROLOGY Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None Aerial Photos Primary Indicators: Other X Inundated X Saturated in Upper 12 Inches Water Marks X No Recorded Data Available Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: 1 (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 0 (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: 0 (in.) FAC-Neutral Test Other (Explain in Remarks) Remarks: Wetland hydrology is present SOILS Map Unit Name: Adrian muck Series Drainage Class: very poorly drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Terric Medisaprists Yes X No Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, (Munsell Moist): and other soil characteristics. Depth Depth Horizon (Munsell Moist): Abundance/Contrast 0 Oe mucky peat, wet, friable, 60% roots N 2.5 1 4 Oi 10YR 3/2 peat, wet, friable, 60% roots 10 A 10YR 10YR 4 3/1 3/4 common distinct silty clay loam, wet, friable, 10 14 ₿ 2.5Y 3/1 10YR 4/6 silty clay loam, moist, friable, oxidixed rhozospheres common 14 N 2.5 muck, moist friable, sulfidic odor Hydric Soil Indicators: Histosol High Organic Content In Surface Layer In Sandy Soils Histic Epipedon X Sulfidic Odor Organic Streaking In Sandy Soils Aquic Moisture Regime X Listed On Local Hydric Soils List X Reducing Conditions Listed On National Hydric Soils List X Gleyed Or Low-Chroma Colors Other (Explain In Remarks) Remarks: Hydric soils are present WETLAND DETERMINATION X Yes Hydrophytic Vegetation Present? No Hydric Soils Present? No Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in wetland

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) West Interceptor Extension Replacement, Town of Middleton Date: 10/26/06 Applicant/Owner: Madison Metropolitan Sewerage District County: Dane Wisconsin Investigator #1: Ann Amelse State: Do Normal Circumstances Exist On The Site? X Yes No Community ID: Wetland A Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: Yes Is The Area A Potential Problem Area? Yes X No Plot ID: 52 (If yes, define below.) Remarks: --VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum 96 Cover HERB Poa pratensis FACan 7 Trifolium pratense FACU+ HERB 20 8. 9. 3. 4. 10. 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant mowed area in park HYDROLOGY Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches X No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: NA (in.) FAC-Neutral Test Other (Explain in Remarks) Remarks: Wetland hydrology is not present SOILS Map Unit Name: Adrian muck Series Drainage Class: very poorly drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **Terric Medisaprists** X No Yes Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top and other soil characteristics. Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast Depth Depth Oi 10YR 0 4 3/2.5 peat, moist, friable 10YR 10 A 2/1 mucky loam, moist, friable, 30% roots 10 20a 18 N 2/1 muck, moist, friable, sulfidic odor Hydric Soil Indicators: Histosol Histic Epipedon High Organic Content In Surface Layer In Sandy Soils X Sulfidic Odor Organic Streaking In Sandy Soils Aquic Moisture Regime Listed On Local Hydric Soils List Reducing Conditions Listed On National Hydric Soils List X Gleyed Or Low-Chroma Colors Other (Explain In Remarks) Remarks: Hydric soils are present WETLAND DETERMINATION X No Hydrophytic Vegetation Present? Hydric Soils Present? X Yes No Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland

							E WETLA	A FORM ND DETERM ds Delineati					
Applic		West Interc Madison Me Ann Amelse	tropolita			ct	n of Mide	dleton		Date: County: State:	10/26/06 Dane Wisconsin		
Track to the S		stances Exist					X Yes		No	Community ID:			
		cantly Disturbe ential Problem		al Situation,)?		Yes Yes		No No	Station ID: Plot ID:	53		
IS THE	(If yes, def		Nigar				165	^	NO	PIDE ID.	33		
	Remarks:												
VEGE	ETATION												
Domi		es (50/20 Ru	ule)	Lord States	- Frankisk	0/ 0	-		Constant	Facility in 1	Food Privates	Examples	07.00
1.	Species Na Acer sacchi	1770-7		Ind.Status FACW	TREE	30 30	E.	7.	Species N	vame	Ind. Status	Stratum	% Cove
2.	Rhamnus fi			FAC+	SHRUB	40		8.					
3.	Sphagnum			OBL	HERB	20		9.					
4.	Alliaria peti	iolata		FAC	HERB	20		10.					
5.								11.					
6.	et of Damina	et Canadas Th	ot Are OB	FACINI O	- FAC /F-	chudina E	10.1	100%					
Percer		nt Species The Hydrophytic				cluding F	MU-):	100%					
HVDI	ROLOGY	20074 12004-012002		2250									
nibi	and the second second	ata (Describe	in Remar	ks):			Wetlan	d Hydrology	Indicators	i T			
		Stream, Lake,		3-19-11 A A			74		None				
		Aerial Photos						Primary Ir	ndicators:				
		Other						2000	Inundated				
320										I in Upper 12 Inch	95		
X	No Recorde	d Data Availal	ble :						Water Ma Drift Lines				
-							-		Sediment				
	Field Obser	vations:								Patterns in Wetlar	nds		
		oth of Surface	Water:	N.A	(in.)			Secondary		s (2 or More Requ			
					0.00			3		Root Channels In I			
	Dep	oth to Free Wa	iter:	N.A	(in.)				Water-Sta	sined Leaves			
								X		Survey Data			
	Dep	oth to Saturate	ed Soil:	NA	(in,)			_	FAC-Neut				
									Other (Ex	plain in Remarks)			
evider		Wetland hyd rydrology is as									he season, wetland tic vegetation and		
SOIL		* *-1					Favire D						
100000000000000000000000000000000000000	init Name: omy (Subgro	Adrian muck		Medisapris	sts	Field Ob		rainage Class s Confirm Ma		very poorly di	X Yes		No
_	Description:		201110						111111111111111111111111111111111111111				
Тор	Bottom		Mat	rix Color		e Colors		Mottle		Texture, moistu	re, consistency, org	ganic material	le :
Depth	Depth	Horizon	(Muns	sell Moist):	(Munse	Il Moist):	Abundar	nce/Contrast		and o	ther soil characteris	stics.	
0	25	Oe	N	2.5					mucky pe	at, moist, friable			
_			-					-					
Hydric	Soil Indicate		20.20020	-					Steroin Co.				
			Histosol						Concretion			4.74.75	
)	Histic Ep					-			rface Layer In San	dy Soils	
			Sulfidic Advic M	Odor loisture Reg	ima					treaking In Sandy Local Hydric Soils			
				g Condition						National Hydric Solis			
				Or Low-Chr		5				plain In Remarks)			
	Remarks:	Hydric soils	are pres	ent									
		ERMINATIO											
		ation Present?	X	Yes		No		oils Present?		274 (0.000)	X Yes		No
Wetlar	nd Hydrology	Present?		Yes	X	No	Is This S	Sampling Poir	nt Within A	Wetland?	X Yes		No
		This plot is l					10						
Netlas											field investigation, getation and the ex	istence of hy	dric soils
4-14HH	recounty	- J wasanieu ti	white at	ponti-	STATE OF STREET	- Marchaell of	Jean-	menter and franching	CONTRACTOR OF THE CO.	or related by the Api	and the Ca	ment for the try	THE STATE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) West Interceptor Extension Replacement, Town of Middleton Date: 10/26/06 Applicant/Owner: Madison Metropolitan Sewerage District County: Dane Investigator #1: Ann Amelse State: Wisconsin Do Normal Circumstances Exist On The Site? X Yes No Community ID: Wetland B Station 1D: Is The Site Significantly Disturbed (Atypical Situation)? Yes X No Is The Area A Potential Problem Area? Yes X No Plot ID: 54 (If yes, define below.) Remarks: --VEGETATION Dominant Species (50/20 Rule) Species Name Ind Status Stratum % Cover Species Name Ind. Status Stratum % Cover HERB Poa pratensis FAC-100 8. 2. 9. 3 4. 10 11. 5. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-) 0% Remarks: Hydrophytic vegetation is not dominant mowed area in park HYDROLOGY Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches Water Marks X No Recorded Data Available Drift Lines Sediment Deposits Drainage Patterns in Wetlands Field Observations: Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present SOILS Map Unit Name: Adrian muck Series Drainage Class: very poorly drained Field Observations Confirm Mapped Type? X No. Terric Medisaprists Taxonomy (Subgroup): Yes Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Horizon Depth Depth 10YR 0 15 Α 2/1 oamy sand, moist, very friable, 30% roots 15 18 Bt 10YR 4/1 5YR 3/4 common prominent silt loam, moist, friable Hydric Soil Indicators: Histosol Concretions Histic Epipedon High Organic Content In Surface Layer In Sandy Soils Sulfidic Odor Organic Streaking In Sandy Soils Aquic Moisture Regime Listed On Local Hydric Soils List Reducing Conditions Listed On National Hydric Soils List. Gleyed Or Low-Chroma Colors Other (Explain In Remarks) Remarks: Hydric soils are not present WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? X No Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland

						E WETLAN	N FORM ID DETERN S Delineati					
Project/Site: Applicant/Owner: Investigator #1:		etropolita			t	n of Midd	leton		Date: County: State:	10/26/06 Dane Wisconsin		
Do Normal Circun				S 18	;	Yes .		No	Community ID:	Wetland B		
Is The Site Signifi			al Situation)	?		_Yes		No	Station ID:			
Is The Area A Pot	tential Problem fine below.)	Arear				_Yes	X	No	Plot ID:	S5		
Remarks									-			
VEGETATION												
Dominant Spec		ule)	1-15-1		26.0		_	Construction and		1-1 6-1	- Control	00.00
Species No. 1. Acer sacci	The state of the s		Ind.Status FACW	Stratum TREE	26 Cove 20		7.	Species N	ame	Ind. Status	Stratum	% Cover
2. Rhamnus			FAC+	SHRUB	40		8.					
 Populus di 			FAC+	TREE	40		9.					
 Viota sp. 			UNK	HERB	15		10.					
5.							11,					
6. Percent of Domin	ant Species Th	at Aro OBI	EACW D	EAC IEve	luding E	MC No.	12. 75%					
	: Hydrophytic				adding F7	Vo-3+	1370					
HYDROLOGY												
	Data (Describe		DEVA VARIOUS			Wetland	Hydrology					
	_Stream, Lake		Sauge					None				
	Aerial Photos						Primary In					
-	Other							Inundated	in Upper 12 Inche	15		
X No Record	led Data Availa	ble						Water Mar		13		
A NO NEGOTO	ico pinto rivano	0,0						Drift Lines				
						1		Sediment I	Deposits			
Field Obse	rvations:								Patterns in Wetlan			
De	epth of Surface	Water:	NA	(in.)			Secondary		(2 or More Requi			
_									Root Channels In L	Jpper 12 Inches		
De	pth to Free Wa	iter:	NA	(in.)					ined Leaves			
Do	pth to Saturate	d Soil:	NA	(in.)				FAC-Neutr	Survey Data			
	pur to saturate	ou son:	Ten	Control					plain in Remarks)			
Remarks:	Wetland hy	drology is	not prese	ent	Wetland	hydrology	indicators n	ot present	but because of ti	ne season, wetland	hydrology m	ev not be
evident. Wetland										tic vegetation and e		
Map Unit Name:	Adrian mucl					Series Dr	ainage Class		very poorly dr	ained		
Taxonomy (Subgr			Medisapris	ts	Field Ob		Confirm Maj			X Yes		No
Profile Description	1:											
Top Bottom		Matr	ix Color	111111111111111111111111111111111111111	Colors		ottle			e, consistency, orga		
Depth Depth	Horizon	(Muns	ell Moist):	(Munsel	Moist):	Abundano	:e/Contrast		and of	her soil characterist	tics.	
0 18	Oa	N	2.5					muck, moi	ist, friable			
Hydric Soil Indicat	tors:	1						No.				
		K Histosol	i i					Concretion			W-11-	
		K Histic Ep Sulfidic (face Layer In Sand	y Soils	
			Jaar oisture Regi	ma					reaking In Sandy Local Hydric Soils			
			Condition:				^		National Hydric So			
		Gleyed C	or Low-Chro		5				olain In Remarks)	THE PERSON		
Remarks:	Hydric soils	are prese	ent									
WETLAND DET	And in case of the last of the	article and a second	Yes		No	Mustrie Co.	ils Present?			X Yes		No
Hydrophytic Veget Wetland Hydrolog		^	Yes Yes		No No	1.00	ins Present? Impling Poin	t Within A	Wetland?	X Yes		No No
	This plot is I			but no ex	etland b	etrology in	dicators was	m mulitares -	t the time of the	field investigation.		
										petation and the exi	stence of hyd	dric soils.

							DATA E WETLAN Wetlands						
Applic		West Intere Madison Me Ann Amelse	etropolita			ot.	n of Middle	eton		Date: County: State:	10/26/06 Dane Wisconsin		
Do No	ormal Circum	istances Exist	On The Sit		July 1		X Yes		No	Community ID:	Wetland B		
		cantly Disturb		sl Situation))?		_Yes		No	Station ID:			
Is The	(If yes, def	ential Problem	1 Area?				_Yes		C No	Plot ID:	S6		
	Remarks:												
_	ETATION												
Domi		es (50/20 R	ule)	Ind Status	Freetom	B/ Cours	-		Conside A	fama	Ind Status	Chenhum	% Cover
t.	Species Na Acer sacch	THE RESIDENCE OF THE PARTY OF T		FACW	Stratum TREE	20	11	7.	Species A	KRITE	Ind Status	Stratum	20.360000
2.		canadensis		FACW-	SHRUB	10		8.					
3.	Populus de			FAC+	TREE	20		9.					
4.	Phalaris ari			FACW+	HERB	80		10.					
6.	Solidago gi	igantea		FACW	HERB	10		11.					
-		nt Species Th				cluding F	AC-):	100%					
	Remarks:	Hydrophytic	c vegetat	ion is don	ninant								
HYD	ROLOGY	No. (December	in Demoni				Littertoni	District	Terffysters	-			
_	Recorded L	Data (Describe Stream, Lake		Section 10 and			Wetland		Indicators None	2			
		Aerial Photos		Junge					ndicators:				
		Other							Inundated	d			
. a.			ALC:							in Upper 12 Inche	85		
X	No Recorde	ed Data Availa	ible						Water Ma Drift Lines				
_							+		Sediment				
	Field Obser	vations:								Patterns in Wetlan	nds .		
	Dep	oth of Surface	Water:	NA	(in.)			Secondar		s (2 or More Requi			
		00 S 15		5935					The second secon	Root Channels In I	Jpper 12 Inches		
	Dep	oth to Free Wa	ater:	NA	(in.)					sined Leaves			
	Der	oth to Saturate	ed Soil-	NA	(in.)				FAC-Neut	Survey Data			
	50,	201.10 2010101	ou som		(0.0)					plain in Remarks)			
	Remarks:	Wetland hy	drology is	s not pres	ent	Wetland	hydrology i	indicators	not present	, but because of t	he season, wetland	l hydrology n	nay not be
evider		nydrology is a	ssumed to	exist at sor	me point o	during the	e growing se	eason base	d on domin	nance of hydrophy	tic vegetation and	existence of l	hydric soils
		Adrian muc	k				Series Dra	inage Clas	S:	very poorly dr	rained		
100	omy (Subgro			Medisapris	its	Field Ob	servations C				Yes	x	No
125-00	Description Bottom		Mate	ix Color	Mossic	Colors	Me	ottle		Testure moistu	re, consistency, org	ranic materia	r.
Top Depth		Horizon		ell Moist):			Abundance				ther soil characteris		10
0	14	С	10YR	3/2	7.5YR	4/4	common	distinct	silt fill ma	terial, moist, very	friable		
14	18	20	10YR	3/2					mucky ne	at, moist, friable			
19	10	20	TOTAL	3/2					писку ре	DL TRUCK, HIGDE			
_			+				-						
			-										
Ele-20	Coll to C												
Hydric	Soil Indicate	0680	Histosol						Concretion	ns			
			Histic Ep	pipedon							rface Layer In Sand	ty Soils	
			Sulfidic (treaking In Sandy			
				oisture Reg						Local Hydric Soils			
				g Condition or Low-Chri		s				National Hydric So plain In Remarks)	oils List		
	Remarks:	Hydric soils											
WET	LAND DET	ERMINATIO	ON										
Hydro	phytic Veget	ation Present		Yes		No	Hydric Soil			ON OF THE WAY	X Yes		No
Wetlar	nd Hydrology	and the latest designation of the latest des	<u> </u>	Yes	X	No	Is This Sar	mpling Poi	nt Within A	Wetland?	X Yes		No
		This plot is I			. Box	untlem d t	udenlam in i	leater	en militar	at the rises of the	Gold incontinuity		
Wetlan											field investigation. getation and the ex	istence of hy	dric soils.

							E WETLAN	A FORM ND DETERM s Delineation)			
Applic		West Interd Madison Me Ann Amelse	tropolita				n of Midd	leton		Date: County: State:	10/26/06 Dane Wisconsin		
Do No	ormal Circun	nstances Exist	On The Sit				Yes		No	Community ID:	Wetland B		
100000000		cantly Disturbe	100 100 100	d Situation)	?		-Yes		No	Station ID:			
is inc		ential Problem fine below.)	Arear			_	Yes	x	No	Plot ID:	\$7		
	Remarks:												
-	ETATION	(FO (20 D	-1-5										
Domi	Species No	ies (50/20 R	uie)	Ind.Status	Stratum	% Cove	el .	1	Species Na	vrio	Ind. Status	Stratum	% Cover
1.	Solanum o			FAC	HERB	20	1	7.	2200000000		III WARREN	200,000,000	20.00101
2.	Cirsium ar	vense		FACU	HERB	20		8.					
3.	Arctium m			UPL	HERB	10		9.					
4.	Phalaris ar			FACW+	HERB	40		10.					
5, 6.	Geum mac	crophyllum		FACW+	HERB	10		11.					
Perce		ant Species Th Hydrophytic				luding FA	VC-):	67%					_
	2007/01/02/2017				1000000								
HYD	ROLOGY Proported 1	Data (Describe	in Rameri	(5)			Wetland	d Hydrology	Indicators:				
	- Accorded t	Stream, Lake					- WOODEN	-	None				
		Aerial Photos	5.050 S.00000	(C) #(C)				Primary In					
		Other							Inundated				
		WENT A 25								n Upper 12 Inche	15		
X	No Record	ed Data Availa	ble						Water Mark	rs .			
							-		Drift Lines	Sanarite.			
	Field Obser	nestions							Sediment D	reposits atterns in Wetlan	de		
		pth of Surface	Water:	NA	(in.)					(2 or More Requi			
		perior surrace	********	1474						oot Channels In I			
	De	pth to Free Wa	ster:	NA	(in.)				Water-Stair		William Contributes		
									Local Soil S	Survey Data			
	De	pth to Saturate	ed Soil:	NA.	(in.)				FAC-Neutra				
									Other (Expl	lain in Remarks)			
evider		Wetland hydrology is as									ne season, wetland tic vegetation and e		
SOIL			The street of the street				270.0720.000					The State of the	PERSONAL PROPERTY.
- A. O.	Init Name: omy (Subgr	Houghton m		Medisapris		Field Ob		ainage Class Confirm Mag		very poorly dr	ained Yes	v	No
	Description		Terrica	neursapris	13	rieid du	SCI VILLIONIS	Committe may	pou Type:		163		NO
Top	Bottom	H-C	Matr	ix Color	Mottle	Colors	M	ottle		Texture, moistur	e, consistency, orga	anic material	
Depth	Depth	Horizon	(Munse	ell Moist):	(Munsel	Moist):	Abundan	ce/Contrast		and of	her soil characterist	ics.	
0	17	С	10YR	2/1					mucky loan	n sand fill, moist,	very friable		
17	18	20	10YR	3/2.5					peat, moist	, friable			
Hydric	Soil Indicat	ors:	100				-			11.			
			_ Histosol	innda-					Concretions		face Layer In Sand	Colle	
			_ Histic Ep Sulfidic (eaking In Sandy		y 3005	
				oisture Regi	me					ocal Hydric Soils			
				Condition						lational Hydric So			
			Gleyed C	or Law-Chro						ain In Remarks)			
	Remarks:	Hydric soils	are prese	ent									
		ERMINATIO tation Present?		Yes		No	Hudric So	ils Present?			X Yes		No
	nd Hydrolog		^	Yes		No		ampling Poin	t Within A V	Vetland?	X Yes		No
		This plot is I	ocated in	10.000					man A Made at 1		778		1000
Wetlar	This plot m	eets the veget	ation and	soil criteria,							field investigation. getation and the exi	stence of hy	dric soils.

							E WETLAN		MINATION ion Manual)			
Applic Invest	tigator #1:	West Interc Madison Me Ann Amelse	tropolita	n Sewera		t		leton		Date: County: State:	10/30/06 Dane Wisconsin		
		stances Exist (cantly Disturbe			2	_	X Yes Yes	-	No No	Community ID: Station ID:	Wetland B		
		ential Problem		ai Situation)	u.		Yes		C No	Plot ID:	S8		
15000	(If yes, defi		200700				-0.570	-	÷1725	Office Co.	22.5		
	Remarks:	7											
-	ETATION												
Domi		es (50/20 Ru	ule)				_	_				et	84.6
1.	Species Na Acer sacchi	10.000		FACW	Stratum TREE	26 COVE	ET.	7.	Species Na Altiaria peti		Ind. Status FAC	Stratum HERB	% Cover 10
2.	Sambucus i			FACU+	SHRUB	20		8.	Morus alba		FAC	SHRUB	20
3.	Rhamnus fi			FAC+	SHRUB	40		9.					
4.	Pyrola sp.	DOMESTICS OF THE PARTY OF THE P		UNK	HERB	20		10.					
5.	Geum maci			FACW+	HERB	10		-11.					
6. Porcor	Populus de	<i>Itoides</i> int Species Th	at Are OB	FAC+	TREE	30 huding F	AC-):	75%					
Percer	CHARLEST STREET, STREE	Hydrophytic				Journa F	MG-J	1970	1				
LIVIN	DOLOGY												
nyDi	ROLOGY Recorded D	ata (Describe	in Remar	ks):			Wetland	d Hydrology	Indicators				
1 5	_	Stream, Lake,		CAN NOT BEEN A					None				
		Aerial Photos		Maria Maria				Primary In	ndicators:				
		Other							Inundated				
	No December	d Data Audita	hla					_		n Upper 12 Inche	25		
X	No Recorde	d Data Availat	Die						Water Mark Drift Lines	CS.			
_							-	_	Sediment D	enosits			
	Field Observ	vations:								atterns in Wetlan	nds		
	Dep	oth of Surface	Water:	NA	(in.)			Secondary		(2 or More Requi			
									Oxidized Ro	oot Channels In I	Upper 12 Inches		
	Dep	oth to Free Wa	iter:	NA	(in.)				Water-Stair				
			W. W						Local Soil S				
	Dep	oth to Saturate	ed Soil:	NA	(in.)				FAC-Neutra				
									_Other (exp	ain in Remarks)			
		Wetland hyd									he season, wetland		
SOIL		rydrology is as	sumed to	exist at sor	me point d	uring the	e growing s	eason base	d on domina	nce of hydrophy	tic vegetation and e	existence of t	hydric soils
married by the franchise	A STATE OF THE PARTY OF THE PAR	Adrian muck	c				Series Dr	ainage Clas	5	very poorly dr	rained		
Taxon	omy (Subgro	oup):	Terric	Medisapris	ts	Field Ob	servations	Confirm Ma	pped Type?		X Yes		No
	Description:		144	de Calar	Matria	Colors		lettle		Touton moletus			
Top Depth	Bottom Depth	Horizon		rix Color sell Moist):	777 64 5 65 55	20,000		lottle ce/Contrast			re, consistency, org ther soil characteris		
		7.7.0					T	T					
0	19	Oa	N.	2.5			-	-	muck, mois	t, friable			
-			-	-			-	-	-				
Hydric	Soil Indicate	ors:					1						
-	Jan. III Milesta		(Histosol						Concretions				
		- >	Histic E								rface Layer In Sand	ly Soits	
			_Sulfidic							eaking In Sandy			
				oisture Reg				X		ocal Hydric Soils			
	7.		The second secon	g Condition Or Low-Chro		5		-		lational Hydric So ain In Remarks)	JIIS LIST		
	Remarks:	Hydric soils						-	- Mary				
Aller	AND DET	CDAMINATIO	281	-211									
		eRMINATIO ation Present?		Yes		No	Hydric Sc	ils Present?	K.		X Yes		No
	nd Hydrology		^	Yes		No	4.		nt Within A V	Vetland?	X Yes		No
		This plot is le	ocated in	-	-					27051			55/10
	This plot me	eets the veget	ation and	soil criteria	, but no w	etland h	ydrology in	dicators we	re evident at	the time of the	field investigation.		
Wetlan											getation and the ex	istence of hy	dric soils.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) West Interceptor Extension Replacement, Town of Middleton Date: 10/30/06 Applicant/Owner: Madison Metropolitan Sewerage District County: Dane Investigator #1: Ann Amelse Wisconsin State: Do Normal Circumstances Exist On The Site? X Yes No Community ID: Wetland B Is The Site Significantly Disturbed (Atypical Situation)? X No Station 1D: Yes Is The Area A Potential Problem Area? Plot ID: Yes X No 59 (If yes, define below.) Remarks: 2' rise in elevation from sample point 8 due to placement of fill material VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status Stratum % Cover Sambucus racemosa FACU+ SHRUB 80 Acer saccharinum FACW HERB 30 8. 3. Populus deltoides FAC+ HERB 9 30 10. 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 67% Remarks: Hydrophytic vegetation is dominant HYDROLOGY Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches X No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: NA (in.) FAC-Neutral Test Other (Explain in Remarks) Remarks: Wetland hydrology is not present SOILS Map Unit Name: Adrian muck Series Drainage Class: very poorly drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **Terric Medisaprists** Yes X No Profile Description: Bottom Texture, moisture, consistency, organic material, Top Matrix Color Mottle Colors Mottle (Munsell Moist): and other soil characteristics. Abundance/Contrast Depth Depth Horizon (Munsell Moist): 0 8 ٨ 10YR silt loam, moist, friable 2/1 8 В 10YR 3/2 mixed sand and clay fill, moist, friable 18 Hydric Soil Indicators: Histosol High Organic Content In Surface Layer In Sandy Soils Histic Epipedon Sulfidic Odor Organic Streaking In Sandy Soils Listed On Local Hydric Soils List Aquic Moisture Regime Reducing Conditions Listed On National Hydric Soils List Gleyed Or Low-Chroma Colors Other (Explain In Remarks) Remarks: Hydric soils are not present WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? X No Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland

							E WETLAN		MINATION on Manual)			
Applic		West Intere Madison Me Ann Amelse	etropolita			ot	n of Middle	eton		Date: County: State:	10/30/06 Dane Wisconsin		
		stances Exist)	X Yes		No	Community ID:			
		cantly Disturb ential Problem		al Situation)	7	_	_Yes Yes		No No	Station ID: Plot ID:	510		
13 1116		fine below.)	(Fried)				100		110	T HOS TOT	3.0		
	Remarks:	**											
VEGE	TATION												
Domi		es (50/20 R	ule)				_						
1.	Species Na Acer sacch			Ind.Status FACW	Stratum TREE	% Cove 20	1	7.	Species Na Alliaria pet		Ind. Status FAC	Stratum HERB	% Cover 30
2.	Sambucus			FACU+	SHRUB	20		8.	rimar na prov	Courter	The	HERO	30
3.	Rhamnus I	frangula		FAC+	SHRUB	40		9.					
4.	Ribes lacus			FACW	SHRUB	20		10.					
5. 6.	Acer negui Populus de			FACW-	TREE	20 40		11.					
		ant Species Th	nat Are OB				AC+):	86%					
	Remarks:	Hydrophyti	c vegetat	ion is dom	inant								
HYDI	ROLOGY						41						
		Data (Describe	in Remark	ks):			Wetland	Hydrology	Indicators:				
	2111111111	Stream, Lake		Gauge					None				
	_	Aerial Photos Other						Primary In	Inundated				
		Other								n Upper 12 Inche	15		
X	No Records	ed Data Availa	ble						Water Mark				
	3/4								Drift Lines				
	Field Obser	a institution							Sediment D	leposits atterns in Wetlan	etic		
		pth of Surface	Water	NA	(in.)			Secondary		(2 or More Requi			
					5000					oot Channels In t			
	Dep	pth to Free Wa	ater:	NA	(in.)				Water-Stair				
	n.	ash to Catamat	e - a		No. 1				Local Soil S				
	Dej	oth to Saturat	ed Soil:	- NA	(in.)				FAC-Neutra Other (Expl	ain in Remarks)			
										71-12-1-17			
eviden		Wetland hy									ne season, wetland tic vegetation and e		
SOIL		4											
		Adrian muc						inage Class		very poorly dr			
_	omy (Subgri		Terric I	Medisapris	its	Field Ob	servations C	Confirm Ma	pped Type?		X Yes		No
Profile Top	Description Bottom		Mate	rix Color	Mottle	Colors	Mo	ittle		Texture moistur	e, consistency, orga	nic material	
Depth		Horizon		ell Moist):			Abundance				her soil characterist		**
	**		T	0.00	THE PAGE OF				LUNION CONT.			1142	
0	15	Oa	N	2.5		_	-		muck, mois	t, friable			
15	20	.Oe	N	2.5					mucky pear	, moist, friable			
_			+				_						
Hydric	Soil Indicat	ors:					1						
			X Histosol						Concretions				
			X Histic Ep								face Layer In Sand	y Soils	
			Sulfidic		lam o					eaking In Sandy			
				oisture Reg g Condition						ocal Hydric Soils lational Hydric So			
				Or Low-Chro		5				ain In Remarks)			
	Remarks:	Hydric soils	are prese	ent									
WETI	AND DET	ERMINATIO	ON				-0					_	
		ation Present		Yes		No	Hydric Soil	ls Present?	ong own persons	A117.7797a4	X Yes		No
	d Hydrolog			Yes	X	No			nt Within A V	Vetland?	X Yes	S-	No
		This plot is					el.						
Mint											field investigation.	rtones of h	dele celle
wettar	ia riyarology	is assumed t	o exist at	some point	ouring the	growing	season bas	ed in the d	ominance o	nyarophytic veg	etation and the exi	stence or ny	ULIC SOIIS.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) West Interceptor Extension Replacement, Town of Middleton Date: 10/30/06 Applicant/Owner: Madison Metropolitan Sewerage District County: Dane Investigator #1: Ann Amelse State: Wisconsin Do Normal Circumstances Exist On The Site? X Yes Community ID: Wetland B Is The Site Significantly Disturbed (Atypical Situation)? Yes X No Station ID: Is The Area A Potential Problem Area? Plot ID: 511 Yes X No (If yes, define below.) Remarks: 3' rise in elevation from sample point 12 due to placement of fill material for construction of apartment building VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Alliaria petiolata FAC HERB 40 7 Populus deltoides FAC+ TREE 20 8. Rhamnus frangula FAC+ SHRUB 30 9. 3. Geum canadense FAC HERB 10 10. 11. 5. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant HYDROLOGY Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches X No Recorded Data Available Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Field Observations: Secondary Indicators (2 or More Required): Depth of Surface Water: NA: (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present SOILS Map Unit Name: Houghton muck Series Drainage Class: very poorly drained **Terric Medisaprists** Field Observations Confirm Mapped Type? X No Taxonomy (Subgroup): Yes Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Depth Horizon Depth 0 14 A 10YR 2/1 sandy loam, moist, friable 14 18 C 10YR 2/2 mixed sandy loam and clay fill, moist, friable Hydric Soil Indicators: Histosol Histic Epipedon High Organic Content In Surface Layer In Sandy Soils Sulfidic Odor Organic Streaking In Sandy Soils Aquic Moisture Regime Listed On Local Hydric Soils List Reducing Conditions Listed On National Hydric Soils List Gleyed Or Low-Chroma Colors Other (Explain In Remarks) Remarks: Hydric soils are not present WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? X No Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: West Interceptor Extension Replacement, Town of Middleton Date: 10/30/06 Applicant/Owner: Madison Metropolitan Sewerage District County: Dane Wisconsin Investigator #1: Ann Amelse State: Do Normal Circumstances Exist On The Site? X Yes Community ID: Wetland B Is The Site Significantly Disturbed (Atypical Situation)? X No Yes Station ID: Is The Area A Potential Problem Area? Yes X No Plot ID: 512 (If yes, define below.) Remarks: VEGETATION Dominant Species (50/20 Rule) Species Name Ind Status Stratum % Cover Species Name Ind. Status Stratum % Cover Ribes americanum FACW SHRUB 30 Fraxinus pennsylvanica TREE 8. 2. FACW 20 Geum canadense HERB 20 9. 3. FAC SHRUB 4. Rhamnus frangula FAC+ 40 10. Populus deltoides FAC+ TREE 30 11. FACW+ TREE 20 Acer negundo 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-) 100% Remarks: Hydrophytic vegetation is dominant HYDROLOGY Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches X No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test** NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present Wetland hydrology indicators not present, but because of the season, wetland hydrology may not be evident. Wetland hydrology is assumed to exist at some point during the growing season based on dominance of hydrophytic vegetation and existence of hydric soils Map Unit Name: Houghton muck Series Drainage Class: very poorly drained Taxonomy (Subgroup): **Terric Medisaprists** Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Depth Depth 0 19 Oa N 2.5 muck, moist, friable Hydric Soil Indicators: X Histosol Concretions X Histic Epipedon High Organic Content In Surface Layer In Sandy Soils Sulfidic Odor Organic Streaking In Sandy Soils Aquic Moisture Regime X Listed On Local Hydric Soils List Reducing Conditions Listed On National Hydric Soils List Gleyed Or Low-Chroma Colors Other (Explain In Remarks) Remarks: Hydric soils are present WETLAND DETERMINATION Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? X Yes No Wetland Hydrology Present? X No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in wetland This plot meets the vegetation and soil criteria, but no wetland hydrology indicators were evident at the time of the field investigation.

Wetland hydrology is assumed to exist at some point during the growing season based in the dominance of hydrophytic vegetation and the existence of hydric soils.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: West Interceptor Extension Replacement, Town of Middleton Date: 10/30/06 Applicant/Owner: Madison Metropolitan Sewerage District County: Dane Investigator #1: Ann Amelse State: Wisconsin X Yes Do Normal Circumstances Exist On The Site? Community ID: Wetland B Is The Site Significantly Disturbed (Atypical Situation)? Yes X No Station ID: Is The Area A Potential Problem Area? Yes X No Plot ID: S13 (If yes, define below.) Remarks: VEGETATION Dominant Species (50/20 Rule) Species Name Ind Status Stratum % Cover Species Name Ind. Status Stratum % Cover Phalaris arundinacea FACW+ HERB 40 7. 2. Solanum dulcamara FAC HERB 20 8. HERB Alliaria petiolata FAC 20 Q. 3 Urtica dioica FAC+ HERB 10 10. 4. HERB 10 Cirsium arvense FACU 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant HYDROLOGY Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None Aerial Photos Primary Indicators: Inundated Saturated in Upper 12 Inches X No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: Water-Stained Leaves NA (in.) Local Soil Survey Data Depth to Saturated Soil: NA (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present Wetland hydrology indicators not present, but because of the season, wetland hydrology may not be evident. Wetland hydrology is assumed to exist at some point during the growing season based on dominance of hydrophytic vegetation and existence of hydric soils SOILS Series Drainage Class: Map Unit Name: Houghton muck very poorly drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Terric Medisaprists X Yes Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Depth 0 10YR loamy sand, moist, very friable, 30% roots, high organic content 8 11 C 10YR 2/2 7.5YR 4/4 common distinct loamy sand, moist, very friable 19 20 10YR 3/2.5 peat, moist, friable 11 Hydric Soil Indicators: Histosol Concretions X High Organic Content In Surface Layer In Sandy Soils Histic Epipedon Sulfidic Odor Organic Streaking In Sandy Soils Aguic Moisture Regime Listed On Local Hydric Soils List X Reducing Conditions Listed On National Hydric Soils List Gleyed Or Low-Chroma Colors Other (Explain In Remarks) Remarks: Hydric soils are present WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? X Yes No X No Is This Sampling Point Within A Wetland? No Wetland Hydrology Present? Yes X Yes Remarks: This plot is located in wetland This plot meets the vegetation and soil criteria, but no wetland hydrology indicators were evident at the time of the field investigation.

Wetland hydrology is assumed to exist at some point during the growing season based in the dominance of hydrophytic vegetation and the existence of hydric soils.

							DATA E WETLAN Wetlands						
Applic		West Intere Madison Me Ann Amelse	etropolita			ct	n of Middle	eton		Date: County: State:	10/30/06 Dane Wisconsin		
		stances Exist			8	;	X Yes		No	Community ID:	Wetland B		
		antly Disturb		d Situation)?		_Yes		No	Station ID:			
is inc	(If yes, defi	ential Problem ine below.)	1 Arear				_Yes		No	Plot ID:	S14		
	Remarks:												
	TATION	- (50 (00 B											
Domi	Species Na	es (50/20 R	ule)	Ind Status	Stratum	% Cove	-	1	Species	Name	Ind. Status	Stratum	% Cover
1.	Silphium pe			FACW-	HERB	5		7.	agrounce.	AMMINE	22002.4000000	200.30000	20.30000
2.	Urtica dioic			FAC+	HERB	20		8.					
3.	Solanum du			FAC	HERB	20		9,					
4.	Phalaris aru		2	FACW+	HERB	20 30		10.					
5.	Caiamagros	stis canadensi	6	OBL	HERB	30		11.					
	t of Domina	nt Species Th	at Are OBL	, FACW, O	r FAC (Ex	cluding F/	AC-):	100%					
	Remarks:	Hydrophytic	c vegetati	on is don	ninant								
HYDI	ROLOGY						Lord						
		ata (Describe Stream, Lake		0.7077			Wetland	Hydrology	Indicator: None	50			
		Aerial Photos		sauge				Primary I					
		Other							Inundate				
	V								Saturate	d in Upper 12 Inch	es		
X	No Recorde	d Data Availa	ble						Water M				
		_					-		Drift Line	The state of the s			
	Field Observ	vations						-		it Deposits e Patterns in Wetlar	nds		
		th of Surface	Water:	N/	(in.)			Secondary		rs (2 or More Requ			
										Root Channels In			
	Dep	th to Free Wa	ater:	NA.	(in.)					tained Leaves			
	911								The second statement to the second to	Il Survey Data			
	Dep	th to Saturate	ed Soil:	NA	(in.)				Other (E	itral Test xplain in Remarks)			
		Wetland hy								nt, but because of t			
SOIL		ydrology is as	ssumed to	exist at so	me point o	during the	growing se	eason base	d on domi	inance of hydrophy	tic vegetation and	existence or	nyaric soils
VOID TO SECURE		Houghton n				E-1101		inage Clas		very poorly di			
	omy (Subgro		Terric N	Medisapris	its	Field Ob	servations (Confirm Ma	pped Type	e7.	Yes	X	No
Top	Description: Bottom		Mate	ix Color	Mottle	Colors	M	ottle		Taytura moistu	re, consistency, or	manic materia	d.
Depth	Depth	Horizon		ell Moist):			Abundano				ther soil character		700
0	8	A	10YR	2/1					loamy sa	and, moist, very fria	ble, high organic	content	
	10	В	10YR	7/1	10YR	5/6		neamle and		oist, very friable			
8					20.00				-				
10	18	Bt	10YR	2/1	2.5YR	2.5/4	many	distinct	mucky lo	oam, moist, friable			
Hydric	Soil Indicato	ors:											
	72		_ Histosol						Concretio	ons			
			Histic Ep					X		panic Content In Su		dy Soils	
			_Sulfidic C		Test in					Streaking In Sandy			
	-		Aquic Mo X Reducino	sisture Reg				_		n Local Hydric Soils n National Hydric S			
				r Low-Chr		5				xplain In Remarks)	and trac		
	Remarks: 1	Hydric soils	are prese	nt									
	the same and the same and	ERMINATIO					To a second				10000		
		ition Present?		Yes		No		is Present?		A Modlemic	X Yes		No
wettan	d Hydrology			Yes	X	No	Is This Sai	mpung Poli	it within /	A Wetland?	X Yes	-	No
20752-0-1	This plot me		tation and	soil criteria						at the time of the			01100001200
Wetlan	d hydrology	is assumed to	o exist at s	ome point	during the	e growing	season bas	sed in the o	ominance	e of hydrophytic ve	getation and the e	xistence of h	ydric soils.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) West Interceptor Extension Replacement, Town of Middleton Date: 10/30/06 Applicant/Owner: Madison Metropolitan Sewerage District County: Dane Investigator #1: Ann Amelse State: Wisconsin Do Normal Circumstances Exist On The Site? X Yes No Community ID: Wetland B Is The Site Significantly Disturbed (Atypical Situation)? X No Yes Station ID: Is The Area A Potential Problem Area? Yes X No Plot ID: 515 (If yes, define below.) Remarks: -VEGETATION Dominant Species (50/20 Rule) Species Name Ind Status Stratum % Cover Species Name Ind. Status Stratum % Cover HERB Poa pratensis FAC-40 7 Taraxacum officinale FACU HERB 20 8. Solanum dulcamara FAC HERB 20 9. HERB 4. Phalaris arundinacea FACW+ 30 10. 11. 5. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant mowed lawn area in park HYDROLOGY Wetland Hydrology Indicators: Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X None Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches X No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: NA (in.) FAC-Neutral Test Other (Explain in Remarks) Remarks: Wetland hydrology is not present SOILS Map Unit Name: Houghton muck Series Drainage Class: very poorly drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **Terric Medisaprists** X Yes No Profile Description: Texture, moisture, consistency, organic material, Bottom Matrix Color Mottle Colors Mottle Top (Munsell Moist): Horizon (Munsell Moist): Abundance/Contrast and other soil characteristics. Depth Depth Oa nuck, moist, friable 0 17 N 2.5 stratified layers of black organics sand , moist, very friable 17 18 В 10YR 7/2 Hydric Soil Indicators: X Histosol X Histic Epipedon High Organic Content In Surface Layer In Sandy Soils Sulfidic Odor Organic Streaking In Sandy Soils Aquic Moisture Regime X Listed On Local Hydric Soils List Reducing Conditions Listed On National Hydric Soils List Gleyed Or Low-Chroma Colors Other (Explain In Remarks) Remarks: Hydric soils are present. WETLAND DETERMINATION X No Hydric Soils Present? Hydrophytic Vegetation Present? X Yes No Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland

							DATA E WETLAN Wetlands						
Applic Invest	igator #1:	West Intere Madison Me Ann Amelse	etropolita 9	n Sewera		ct	n of Middle	eton		Date: County: State:	10/30/06 Dane Wisconsin		
2000		stances Exist					Yes		No	Community ID:			
	A STATE OF THE STA	cantly Disturbe ential Problem		if Situation)	7		_Yes Yes		No.	Station ID: Plot ID:	S16		
15 1116	(If yes, def		Hiear				165		C NO	PIOLID:	310		
	Remarks:												
-	TATION	(50 (00 D											
Domi	Species Na	es (50/20 R	uie)	Ind.Status	Stratum	1 % Cove	rl		Species	Name	Ind. Status	Stratum	% Cover
1.	Solidaga gi	20 C T T T T T T T T T T T T T T T T T T		FACW	HERB	70		7.					
2.	Silphium pe			FACW-	HERB	15		8.					
3.	Helianthus			FACW	HERB	10		9.					
5.	Hypericum	ascyron		FAC+	HERB	5		10.					
6.								12.					
		nt Species Th				cluding FA	VC-):	100%					
	Remarks:	Hydrophytic	c vegetati	ion is dom	iinant								
HYDI	ROLOGY Recorded D	ata (Describe	in Remark	(s):			Wetland	Hydrology	Indicator	6			
_	Necorded L	Stream, Lake		(140)			wenana		None	3.			
		Aerial Photos						Primary I	material and a second s				
		Other							Inundate				
- 5										d in Upper 12 Inch	25		
X	No Recorde	ed Data Availa	ible						Water M Drift Line				
_							-			nt Deposits			
	Field Obser	vations:								Patterns in Wetlar	ods		
	Dep	oth of Surface	Water:	NA.	(in.)		1 1	Secondary	_	rs (2 or More Requi			
										Root Channels In I	Upper 12 Inches		
	Dep	oth to Free Wa	ater:	NA	(in.)					tained Leaves			
	Desc	oth to Saturate	od Coil	MA	(in.)					il Survey Data itral Test			
	Oe,	on to seturate	ou sun.		1,000					xplain in Remarks)			
	D	181-11				161-11						4 1	
eviden		Wetland hy nydrology is as								nt, but because of to inance of hydrophy			
SOIL				2010-000-2-500-							Zim rende sevelim accome		-omers-win
100000000000000000000000000000000000000		Houghton n		4004000040		The STOCK CASE	Series Dra			very poorly di			
_	omy (Subgro		Terric N	Medisapris	ts	Field Ob	servations C	Confirm Ma	pped Typ	e?	Yes	X	No
	Description: Bottom		Mate	ix Color	Motti	e Colors	Me	ttle		Toytura maistu	re, consistency, or	nanic materia	6
Top Depth	772777777	Horizon		ell Moist):	0.000,000		Abundance				ther soil characteri		95
0	В	А	10YR	2/1	7.5YR	4/4	common	distinct	mucky s	ilt loam, moist, very	friable 40% root	<	
	-		1011	-	7.0110	71.7	COMMISSION	distinct		Il material	11100101 4030 1000		
8	16	С	10YR	3/1	5YR	3/4	many	prominen	silt loam	, moist, friable			
16	19	20a	N	2.5					muck, m	noist, friable			
Hydric	Soil Indicate	ors:	277-005						STICKET IN	estara			
		15.11	_Histosol	in a death					Concreti	The state of the s		de Carte	
			Histic Ep Sulfidic (ganic Content In Su Streaking In Sandy		uy sons	
				oisture Reg	ime					n Local Hydric Soils			
			X Reducing	g Condition	s					n National Hydric S			
	Depreselv		and the same of th	or Low-Chro	oma Colo	rs			Other (E	xplain In Remarks)			
	Parameter Conf.	Hydric soils	an extension	mt									
		ERMINATIO		Vos		No	Hydric Soil	le Drocoust	,		V Var		No
	onytic Veget nd Hydrology	ation Present? Present?		Yes Yes	x	No No				A Wetland?	X Yes		No No
		This plot is I									F-141		
Motion										t at the time of the		vistance of h	odric soils
wenar	iu riyarology	is assumed to	o exist at s	ome point	uuring th	e growing	season pas	ed in the i	oumnance	e of hydrophytic ve	yerauon and the e	xistence or ny	write soils.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) West Interceptor Extension Replacement, Town of Middleton 10/30/06 Date: Applicant/Owner: Madison Metropolitan Sewerage District County: Dane Investigator #1: Ann Amelse State: Wisconsin Do Normal Circumstances Exist On The Site? X Yes Community ID: Wetland C No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: Yes Is The Area A Potential Problem Area? Plot ID: **S17** Yes X No (If yes, define below.) Remarks: --VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Poa pratensis HERB FAC-70 7 Trifolium pratense FACU+ HERB 20 8. Taraxacum officinale FACU 9. HERB 10 3. 4 10 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant mowed lawn area in park HYDROLOGY Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches X No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Water-Stained Leaves Depth to Free Water: NA (in.) Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present SOILS Map Unit Name: Houghton muck Series Drainage Class: very poorly drained Field Observations Confirm Mapped Type? **Terric Medisaprists** X No Taxonomy (Subgroup): Yes Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Depth 0 6 Α 10YR 2/1 silt loam, moist, friable, 40% roots mixed layer ₿ 10YR 3/1 5YR 3/4 silt loam, moist, friable 6 13 many prominer organic streaking 13 18 **B2** 10YR sand, moist, very friable 5/3 Hydric Soil Indicators: Histosol Histic Epipedan High Organic Content In Surface Layer In Sandy Soils Organic Streaking In Sandy Soils Sulfidic Odor Aquic Moisture Regime Listed On Local Hydric Soils List X Reducing Conditions Listed On National Hydric Soils List Gleyed Or Low-Chroma Colors Other (Explain In Remarks) Remarks: Hydric soils are present WETLAND DETERMINATION Hydric Soils Present? X No No Hydrophytic Vegetation Present? X Yes Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) West Interceptor Extension Replacement, Town of Middleton 10/30/06 Date: Applicant/Owner: Madison Metropolitan Sewerage District County: Dane Investigator #1: Ann Amelse Do Normal Circumstances Exist On The Site? State: Wisconsin X Yes Community ID: Wetland C No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: Yes Is The Area A Potential Problem Area? Plot ID: 518 Yes X No (If yes, define below.) Remarks: -VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind, Status Stratum % Cover FACW HERB Solidago gigantea 85 Silphium perfoliatum 2. FACW-HERB 15 8. 9. 4 10 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-) 100% Remarks: Hydrophytic vegetation is dominant HYDROLOGY Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches X No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: NA (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present Wetland hydrology indicators not present, but because of the season, wetland hydrology may not be vident. Wetland hydrology is assumed to exist at some point during the growing season based on dominance of hydrophytic vegetation and existence of hydric soils SOILS Map Unit Name: Houghton muck Series Drainage Class: very poorly drained Field Observations Confirm Mapped Type? X No Taxonomy (Subgroup): **Terric Medisaprists** Yes. Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Depth 0 6 Α 10YR 2/1 7.5YR 4/4 mucky silt loam, moist, very friable, 40% roots common distinct mixed fill material 15 C 10YR 3/1 5YR 3/4 prominent silt loam, moist, friable 6 15 19 20a 2.5 muck, moist, friable N Hydric Soil Indicators: Histosol Histic Epipedon High Organic Content In Surface Layer In Sandy Soils Sulfidic Odor Organic Streaking In Sandy Soils Aquic Moisture Regime Listed On Local Hydric Soils List X Reducing Conditions Listed On National Hydric Soils List X Gleyed Or Low-Chroma Colors Other (Explain In Remarks) Remarks: Hydric soils are present WETLAND DETERMINATION No Hydric Soils Present? Hydrophytic Vegetation Present? X Yes No Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in wetland

This plot meets the vegetation and soil criteria, but no wetland hydrology indicators were evident at the time of the field investigation.

Wetland hydrology is assumed to exist at some point during the growing season based in the dominance of hydrophytic vegetation and the existence of hydric soils

ATTACHMENT C

RAPID ASSESSMENT METHODOLOGY FOR DETERMINING WETLAND FUNCTIONAL VALUE (SUMMARY SHEET)

Wisconsin Department of Natural Resources

RAPID ASSESSMENT METHODOLOGY FOR EVALUATING WETLAND FUNCTIONAL VALUES

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Name of Wetland/C	wner: Wet	land Area	a A, Lakev	iew Communit	y Pa	ark (City of Middle	eton)
Location: County _	Dane	_;	, NE	1/4, Section	12	, Township 7N	, Range 8E
Project Name: Wes	st Intercepto	r Extens	on Recon	struction			
Evaluator(s): Ann A	melse (Ear	th Tech)					
Date(s) of Site Visit	t(s): Octobe	r 26 and	30, 2006				

Description of seasonality limitations of this inspection due to time of year of the evaluation and/or current hydrologic and climatologic conditions (e.g. after heavy rains, now or ice cover, during drought year, during spring flood, during bird migration):

No seasonal limitations present.

WETLAND DESCRIPTION

Wisconsin Wet	lands Inventory Class	ification: Not	identified on WV	VI map	
Wetland Type:	shallow open water Floodplain forest		shallow marsh sedge meadow	seasonally flooded basin coniferous swamp	bog fen
80	(Wet meadow)	shrub-carr	low prairie	hardwood swamp	
Estimated size	of wetland in acres:	< 0.1 acres			

SUMMARY OF FUNCTIONAL VALUES

Based on the results of the attached functional assessment, rate the significance of each of the functional values for the subject wetland and check the appropriate box. Complete the table as a summary.

FUNCTION		SI	GNIFICA	ANCE	
	Low	Medium	High	Exceptional	N/A
Floral Diversity	X				
Wildlife Habitat	X				
Fishery Habitat					X
Flood/Stormwater Attenuation	X				
Water Quality Protection	X				
Shoreline Protection					X
Groundwater	X				
Aesthetics/Recreation/Education	X				

List any Special Features/"Red Flags":

No special features/Red flags present

Wisconsin Department of Natural Resources

RAPID ASSESSMENT METHODOLOGY FOR EVALUATING WETLAND FUNCTIONAL VALUES

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Name of Wetland/C	wner: Wet	land Area	a B, Lakev	iew Community	Park (City of	Middle	ton)
Location: County_	Dane	- ;	, NE	1/4, Section 1	12 , Townshi	p 7N	, Range 8E
Project Name: Wes	t Intercepto	r Extens	ion Recons	struction		1)	
Evaluator(s): Ann A	melse (Ear	th Tech)					
Date(s) of Site Visit	(s): Octobe	r 26 and	30, 2006				

Description of seasonality limitations of this inspection due to time of year of the evaluation and/or current hydrologic and climatologic conditions (e.g. after heavy rains, now or ice cover, during drought year, during spring flood, during bird migration):

Hydrology indicators were not as evident due to the time of year the delineation was completed.

WETLAND DESCRIPTION

Wetland Type:	shallow open water	deep marsh	shallow marsh	seasonally flooded basin	bog
	Floodplain forest	alder thicket	sedge meadow	coniferous swamp	fen
	(Wet meadow)	shrub-carr	low prairie	(hardwood swamp)	

SUMMARY OF FUNCTIONAL VALUES

Based on the results of the attached functional assessment, rate the significance of each of the functional values for the subject wetland and check the appropriate box. Complete the table as a summary.

FUNCTION		SI	GNIFICA	ANCE	
	Low	Medium	High	Exceptional	N/A
Floral Diversity		×			
Wildlife Habitat		X			
Fishery Habitat					X
Flood/Stormwater Attenuation		×			
Water Quality Protection		×			_
Shoreline Protection					X
Groundwater		X			
Aesthetics/Recreation/Education		X			

List any Special Features/"Red Flags":

No special features/Red flags present

Wisconsin Department of Natural Resources

RAPID ASSESSMENT METHODOLOGY FOR EVALUATING WETLAND FUNCTIONAL VALUES

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Name of Wetland/C	wner: Wet	land Area	C, Lakev	iew Community	/ Pa	ark (City of Middle	eton)
Location: County _	Dane		, NE	1/4, Section 1	12	, Township 7N	, Range 8E
Project Name: Wes	t Intercepto	r Extens	on Recons	struction		1,000	
Evaluator(s): Ann A	melse (Ear	th Tech)					
Date(s) of Site Visit	(s): Octobe	r 26 and	30, 2006				

Description of seasonality limitations of this inspection due to time of year of the evaluation and/or current hydrologic and climatologic conditions (e.g. after heavy rains, now or ice cover, during drought year, during spring flood, during bird migration):

Hydrology indicators were not as evident due to the time of year the delineation was completed.

WETLAND DESCRIPTION

Wetland Type:	shallow open water	deep marsh	shallow marsh	seasonally flooded basin	bog
	Floodplain forest	alder thicket	sedge meadow	coniferous swamp	fen
	Wet meadow	shrub-carr	low prairie	hardwood swamp	

SUMMARY OF FUNCTIONAL VALUES

Based on the results of the attached functional assessment, rate the significance of each of the functional values for the subject wetland and check the appropriate box. Complete the table as a summary.

FUNCTION	SIGNIFICANCE				
	Low	Medium	High	Exceptional	N/A
Floral Diversity		×			
Wildlife Habitat	X				
Fishery Habitat					X
Flood/Stormwater Attenuation	X				
Water Quality Protection	X				
Shoreline Protection					X
Groundwater	X				
Aesthetics/Recreation/Education	X				

List any Special Features/"Red Flags":

No special features/Red flags present

ATTACHMENT D
PHOTOGRAPHS



Wetland Area A, looking northwest



Wetland Area A, looking southeast



Western component of Wetland Area B, looking northeast (near S3)



Eastern component of Wetland Area B, looking northeast (near S14)



Stormwater culvert near S5, looking southwest



Unnamed intermittent stream in Wetland Area B, looking west from paved walking path



Wetland Area C, looking southwest



Wetland Area C, looking southeast

ATTACHMENT E FIGURE 4 - WETLAND DELINEATION MAP

