Natural Resources Consulting, Inc.



WETLAND DELINEATION REPORT Liberty Business Park

Town of Verona, Dane County, Wisconsin

NRC Project No. 009-0265-01 December 2009

PREPARED FOR:

PREPARED BY:

Ruedebusch Development 4605 Dovetail Drive Madison, WI 53704 Natural Resources Consulting, Inc. PO Box 128 ° 209 Commerce Parkway Cottage Grove, WI 53527





WETLAND DELINEATION REPORT

LIBERTY BUSINESS PARK TOWN OF VERONA, DANE COUNTY, WISCONSIN

DECEMBER 2, 2009

Prepared For:

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NRC Project #: 009-0265-01

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INTRODUCTION

Natural Resources Consulting, Inc. (NRC) performed a wetland determination and delineation of the Liberty Business Park study area (the "Study Area") on behalf of Ruedebusch Development and Construction. The Study Area is approximately 138 acres in size and located in Sections 23 and 24, Township 6 North, Range 8 East, Town of Verona, Dane County, Wisconsin. Specifically, the Study Area is located between Whalen Road and CTH M, with CTH PB and USH 18 to the west (Figure 1). One portion of the study area is located at the northeast corner of the intersection of Whalen Road and USH 18.

The purpose and objective of the wetland determination and delineation was to identify the extent and spatial arrangement of wetlands within the Study Area. The wetland delineation was completed by Jeff Kraemer of NRC on November 3 and 6, 2009. Three wetland areas were identified in the Study Area.

The remainder of the property, including the farm fields, woodland, and shrubland immediately adjacent to CTH PB and USH 18, was delineated by Neil Molstad of NRC on May 1 and 21, 2007 (please see figures provided in Appendix 3). No wetlands were identified on that portion of the Study Area. The wetland determination letter and concurrence from the United States Army Corps of Engineers (USACE) for that previous delineation work is found in Appendix 3. Additionally, the Wisconsin Department of Natural Resources (WDNR) completed a navigability determination of a waterway mapped on the USGS topoquads; this determination is also found in Appendix 3.

Wetlands that are considered waters of the U.S. are subject to regulation under Section 404 of the Clean Water Act (CWA) and the jurisdictional regulatory authority lies with the USACE. Additionally, the WDNR has regulatory authority over wetlands, navigable waters, and adjacent lands under Chapter 30 Wisconsin State Statutes, Act 6, and Wisconsin Administrative Code NR 103. NRC recommends this report be submitted to the WDNR and USACE for final jurisdictional review and concurrence.

METHODS

Wetland determinations were based on the criteria and methods outlined in the *United States Corps of Engineers Wetlands Delineation Manual*, Technical Report Y-87-1 (1987) and subsequent guidance documents (USACE 1991, 1992), Guidelines for Submitting Wetland Delineations in Wisconsin to the St. Paul District Corps of Engineers (USACE 1996), and the *Basic Guide to Wisconsin's Wetlands and their Boundaries* (Wisconsin Department of Administration Coastal Management Program 1995).

The wetland determination involved the use of available resources to assist in the assessment such as USGS topographic maps, Natural Resources Conservation Service (NRCS) soil survey, Wisconsin Wetland Inventory (WWI) mapping and aerial photography.

On-site wetland determinations were made using the three criteria (vegetation, soil and hydrology) and technical approach defined in the USACE 1987 Manual. According to procedures described in the 1987 Manual, areas that under normal circumstances reflect a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology (e.g., inundated or saturated soils) are considered wetlands.

The uppermost wetland boundary was identified with consecutively numbered delineation flagging. The wetland boundary was surveyed and is identified on a site survey map (Figure 5). Subject to weathering, the flagging will remain in the field for use during a USACE / WDNR site review and as a guide during construction.

RESULTS

Site Description

The Study Area is comprised of active agricultural fields, a few small wetlands, and an oak/hickory upland forest. The Study Area also includes a commercial/farming operation. The agricultural fields were under soybean production in 2009. The Study Area is landscaped with well defined glacial kettle and moraine features and is gently rolling, with topographic highs of approximately 1080 feet msl in the southeastern corner of the Study Area to topographic lows of 1020 in the center of the Study Area. The Study Area is bordered by residential development to the southeast; agricultural lands to the north and east; and CTH PB/USH 18 to the west. The lands south of the Study Area are under development.

Soils mapped on the Study Area by the *NRCS Soil Survey of Jefferson County* include Dodge silt loams (DnB, DnC2), Dodge and Kidder soils (DoC2), Kidder soils (KdD2), McHenry silt loams (MdC2), St. Charles silt loams (ScA, ScB), and Troxel silt loams (TrB) (Figure 2). According to the NRCS List of Hydric Soils for Dane County, the Troxel series may contain hydric inclusions.

The Wisconsin Wetland Inventory (WWI) map does not identify any wetlands within the Study Area nor on adjacent properties. The WWI shows two waterbodies which correspond with the field-delineated Wetlands 1 and 2 (Figure 3). The field delineated northern wetland (W-3) is not identified on the WWI map (Figure 4).

Wetlands

Three wetlands were identified and delineated within the Study Area. USACE data sheets were completed for 17 sample points along transects through the wetlands and adjacent uplands and are contained in Appendix A. Photographs of the wetlands and adjacent lands are contained in Appendix B. The wetland boundary and sample point locations are shown on Figure 4. The wetlands are summarized in Table 1 and described in detail in the following sections.

Wetland	Wetland Type	Adjacent Surface Waters	Acreage (on-site)
Wetland 1 (W-1a and W1b)	Ephemeral wetland in forested setting / T3K	No inlets or outlets observed	0.092 acres (W-1a)
			0.069 acres (W-1b)
			(Note: total wetland acreage, on- and off-
			site, is 0.718 acres)
Wetland 2 (W-2)	Open water pond / W3H	No inlets or outlets observed	0.136 acres
Wetland 3 (W-3)	Farmed Wetland / E2Kf	No inlets or outlets observed	1.092 acres

Wetland 1(W-1a and W-1b)

Wetland 1 is an ephemeral wetland in the southeastern corner of the Study Area. The wetland on-site is divided into two sections, Wetland 1a and 1b, represented by sample points P-03 and P-04. The wetland continues off-site to the east and has an approximate total size of <2 acres. Wetland 1 does not appear to be connected to any tributaries or waterways (Figure 1).

Vegetation

Dominant plant species identified at sample points completed within the ephemeral wetland consist of American elm (*Ulmus americana*) and box-elder (*Acer negundo*) in the canopy, elderberry (*Sambucus canadensis*) in the shrub layer, and white avens (*Geum canadense*) in the herbaceous layer. The herbaceous and shrub layers were very sparse due to seasonal ponding. Other common species identified in the wetland are listed on the data forms contained in Appendix A. The dominant species within the wetland are comprised mostly of hydrophytic vegetation (OBL, FACW, and/or FAC) and meet the hydrophytic vegetation criterion.

Hydrology

The wetland appears to have a seasonally inundated/saturated hydroperiod. Drainage patterns within the wetland were the primary indicators of wetland hydrology, while secondary indicators included water stained leaves, oxidized rhizospheres, and a positive FAC-neutral test. The wetland hydrology criterion was met.

Soils

Soils within the wetland are mapped by the NRCS as Dodge and Kidder soils (Figure 2). The Dodge series consists of very deep well-drained soils formed in loess and in the underlying till on ground moraines, end moraines, and drumlins. The Kidder series consists of very deep, well drained soils formed in thin loess and in loamy till or just in loamy till on moraines and drumlins. Field indicators of hydric soil identified consisted of low chroma colors with redoximorphic features. Therefore, the hydric soil criterion was satisfied.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils and topography consisting of the following: 1) Transition from a dearth of herbaceous and shrub vegetation due to seasonal flooding to a mesic woodland upland community dominated by red oak (*Quercus rubra*), chokecherry (*Prunus virginiana*) and containing a richer shrub community; and 2) Transition from drainage patterns and other evidence of ponding within the wetland to lack of wetland hydrology indicators within the adjacent upland; and 3) Transition from soils with hydric indicators to brighter non-hydric soils in the uplands. The transition from wetland to upland characteristics generally correlated with a well-defined topographic break.

Wetland 2 (W-2)

Wetland 2 is an open water pond formed within a natural kettle although may have been historically dredged. Wetland 2 is found within the woodland in the southeastern corner of the Study Area. Wetland

2 does not appear to be connected to any tributaries or waterways (Figure 1).

Vegetation

There was no vegetation present in Wetland 2 due to flooded conditions. There was no aquatic vegetation within the pond, nor any fringe of wetland species along the margin.

Hydrology

The wetland appears to have a permanently inundated/saturated hydroperiod. At the sample point, the soils were saturated to the surface, and there was free water in the pit at four inches, a primary indicator of wetland hydrology. The pond contained an estimated three feet of water at its deepest point. The wetland hydrology criterion was met.

Soils

Soils within the wetland are mapped by the NRCS as Kidder loam (Figure 2). The Kidder series consists of very deep, well drained soils formed in thin loess and in loamy till or just in loamy till on moraines and drumlins. The soils observed in the field did not match the mapped series. Field indicators of hydric soil identified consisted of low chroma colors with redoximorphic features. Therefore, the hydric soil criterion was satisfied.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils and topography consisting of the following: 1) Transition from an open water community to a mesic woodland upland community dominated by red oak (*Quercus rubra*), common buckhorn (*Rhamnus cathartica*), and white avens (*Geum canadense*), and 2) Transition from saturated and inundated soils to lack of wetland hydrology indicators within the adjacent upland; and 3) Transition from hydric soils to brighter non-hydric soils in the uplands. The transition from wetland to upland characteristics generally correlated with a well-defined topographic break.

Wetland 3 (W-3)

Wetland 3 is a farmed wetland along the northern boundary of the Study Area. It does not appear to be connected to any tributaries or waterways (Figure 1). The farmed wetland was not farmed in 2009. A cursory review of Farm Service Agency aerial photos from recent years shows that this area has consistent wetland signatures that are consistent with the extent of the wetland identified.

Vegetation

The wetland was comprised of a near monoculture of knee-grass (*Panicum dichotomiflorum*, FACW-). Less common species included pink weed (*Polygonum pensylvanicum*). The vegetation is dominated by hydrophytic vegetation, and therefore the wetland meets the hydrophytic vegetation criterion.

Hydrology

The wetland appears to have a seasonally inundated/saturated hydroperiod. A primary indicator of

wetland hydrology included saturated soils near the surface. A positive FAC-neutral test and consistent wetland signatures on previous years' aerial photos provide two secondary indicators of wetland hydrology. Other parts of the wetland (beyond the sample point) show evidence of recent ponding. The wetland hydrology criterion was met.

Soils

Soils within the wetland are mapped by the NRCS as Troxel silt loam and St. Charles silt loam (Figure 2). The Troxel series consists of very deep, well drained soils formed in silty colluvium and in the underlying loamy drift. They are in slight depressions on outwash plains, stream terraces, and till plains. The St. Charles series consists of very deep, well drained soils on outwash plains, till plains, or stream terraces. Field indicators of hydric soil identified consisted of low chroma colors with redoximorphic features. Therefore, the hydric soil criterion was satisfied.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils and topography consisting of the following: 1) Transition from a wet meadow dominated by knee-grass to an agricultural field with no apparent crop damage; 2) Transition from an area with a positive FAC-neutral test and consistent wetland signatures on aerial photos to a lack of wetland hydrology indicators within the adjacent upland; and 3) Transition from soils with hydric indicators to brighter non-hydric soils in the uplands. The transition from wetland to upland characteristics generally correlated with a gentle topographic break.

Uplands

Uplands on the Study Area consist of mostly agricultural lands and a small area of mesic woods. The wooded area is located in the southeastern corner of the Study Area. This area (sample points P-01, P-02, P-05, P-06, and P-08) is a well defined kettle/drumlin complex containing Wetlands 1 and 2. The woodland also extends as a substantial field row across the Study Area. The woodland is dominated by red oak, shrubs such as chokecherry and blackberry (*Rubus occidentalis*), and white avens (*Geum canadense*). Soils in this area are mapped by NRCS as Kidder loam and Dodge silt loam, both well drained soils. Field observations confirmed that the soils were well drained.

The agricultural fields were under soybean and corn production during the growing season. Most of the soils in these areas are mapped as St. Charles silt loam, Dodge silt loam, McHenry silt loam, and Troxel silt loam soils, all well drained map units, except for Troxel, which is moderately well drained. Field observations confirmed that these soils are well drained. The agricultural fields (apart from Wetland 3) support successful crop growth.

Other Environmental Considerations

This report is limited to the identification of state and/or federally regulated wetlands within the Study Area. However, there may be other regulated environmental features within the Study Area, including but not limited to, historical or archeological features, endangered or threatened species, and/or floodplains, etc. Federal, state, and local units of government and regional planning organizations may have regulatory authority to control or restrict land uses within or in close proximity to these features.

NRC can assist with identification and/or assessment of additional regulated resources at your request, to the extent that the work is within our range of expertise.

Specifically, in the state of Wisconsin, Wis. Adm. Code NR 151.12 requires that a "protective area" or buffer be determined from the top of the channel of lakes, streams and rivers, or at the delineated boundary of wetlands. In accordance with NR 151.12, the width of the "protective buffer" for less susceptible wetlands are determined by using 10% of the average wetland width, no less than 10 feet or more than 30 feet. Lakes, perennial and intermittent streams, and highly susceptible wetlands and wetlands in areas of special natural resource interest may require buffers of 50 and 75 feet, respectively. Wetlands 1 and 2 lack invasive plant species, and would be considered highly susceptible wetlands. Wetland 1 and 2 would require buffers of 50 feet. Wetland 3 is dominated by weedy species and is frequently disturbed by farming activities. Therefore, based on the "protective buffer" standards provided by NR 151.12, it is NRC's professional opinion that Wetland 3 meets the criteria for less susceptible wetlands and the buffer from the wetland boundary would be 27.5 feet. However, the jurisdictional authority on wetland buffers rests with the WDNR. The local unit of government and/or regional planning organization may have more restrictive buffers from wetlands than that imposed under NR 151.

A navigability determination was completed by the WDNR on the mapped waterway that traverses through the northwest portion of the property in 2007. Following a field visit by Cami Peterson (WDNR), the drainageway was determined to be non-navigable per state of Wisconsin definition (Appendix 3 – WDNR Determination Letter). Note that the watercourse is not defined in the agricultural field, and only becomes defined at the woodland, though it remains non-navigable. NRC recommends that the Client coordinates with Dane County and/or Verona to be sure that the surrounding 300 feet is not designated as shoreland zone. If it is, you can request that it is removed (this is an administrative process not a rezoning process) since the waterway is not navigable.

Dane County requires setbacks from shoreland and inland wetlands greater than two acres. The wetlands identified with the Study Area are inland wetlands; however they are less than 2 acres in size (including off-site portions). Therefore, it is our understanding that Dane County wetland setbacks do not apply.

CONCLUSION

NRC performed a wetland determination and delineation of the Liberty Business Park Study Area on behalf of Ruedebusch Development and Construction. The Study Area is located in Sections 23 and 24, Township 6 North, Range 8 East, Town of Verona, Dane County, Wisconsin. The purpose and objective of the wetland determination and delineation was to identify the extent and spatial arrangement of wetlands within the Study Area.

Three wetlands were identified and delineated on the Study Area in accordance with state and federal guidelines. These three wetlands are ephemeral, open water, and farmed wetland communities. Adjacent uplands are composed of agricultural lands and mesic woods. A combined total of approximately 1.389 acres of wetlands were identified with the 138 acre Study Area. Wetlands and their boundaries were flagged, surveyed and mapped.

The USACE has regulatory authority over waters of the U.S. including adjacent wetlands, and the WDNR has regulatory authority over wetlands, navigable waters, and adjacent lands under Chapter 30 Wisconsin State Statutes, Act 6, and NR 103 Wisconsin Administrative Code. Local jurisdictions may have additional regulatory authority through shoreland or wetland zoning ordinances.

Prior to beginning work at this site or disturbing or altering wetlands, waterways, or adjacent lands in any way, NRC recommends that the owner obtain the necessary permits or other agency regulatory review and concurrence with regard to the proposed work to comply with applicable regulations. NRC can assist with identification and/or assessment of additional regulated resources at your request, to the extent that the work is within our range of expertise.

The information provided by NRC regarding wetland boundaries is a scientific-based analysis of the wetland and upland conditions present on the site at the time of the fieldwork. The delineation was performed by an assured wetland delineator, Jeff Kraemer, who has been assured through the Wisconsin Department of Natural Resources – Wetland Delineation Professional Assurance Program (Appendix D - Delineation Assurance Letter). Therefore, concurrence from the WDNR is not required for purpose of waterway and wetland permit applications and/or other state-mandated local wetland programs. However, assurance does not change the need for or decisions about wetland fill permits from the appropriate regulatory agencies. Wetland delineations conducted by an assured delineator does not eliminate the need to obtain concurrence and jurisdiction determinations from the USACE. The ultimate decision on wetland boundaries rests with the USACE and, in some cases, the WDNR or a local unit of government. As a result, there may be adjustments to boundaries based upon review by a regulatory agency. An agency determination can vary from time to time depending on various factors including, but not limited to recent precipitation patterns and the season of the year. In addition, the physical characteristics of the site can change over time, depending on the weather, vegetation patterns, drainage activities on adjacent parcels, or other events. Any of these factors can change the nature and extent of wetlands on the site.

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FIGURES



The information presented in this map document is advisory and is intended for reference purposes only



Liberty Figure 2 NRCS Soils.mxd Map Created by A. Archer





The information presented in this map document is advisory and is intended for reference purposes only.

Liberty Figure 4 FDW.mxd Map Created by D. Giblin



APPENDIX A

US ARMY CORPS OF ENGINEERS DATA SHEETS



Natural Resources	s Consulting, Inc.				Job Numbe	er: 009-0265-01				
Data Forn	n				Town/Villag	ge/City: Verona				
Routine V	Vetland Detei	rmination			Wetland Data Point: P-01					
Proiect/Site:	Libertv Business	Park			Date: No	ovember 03. 2009				
Applicant/Ow	ner:				County:	Dane				
Investigator:	Jeff Kraemer				State: W	1				
[Yes] Do norn	nal circumstances	exist on the site?			Commun	ity ID: Upland				
[No] Is the site	e significantly distu	rbed (Atypical Situati	ion)?		Station ID):				
[No] Is the are	a a potential probl	em area?			Plot ID:	P-01				
/egetation						-				
Dominant	Species		Com	mon Name / CofC		% Cover	Indicator			
Herbaceous						,				
X	Geum canadens	e	white	e avens / 2		5	FAC			
<u>Shrub</u>										
	LONICERA X BE	ELLA	Bell	s honeysuckle		10	[FACU]			
×	Sampucus canal Rubus occidenta	aensis	elde	rberry / 3 k raspherry / 2		2				
Tree	Rubus occidenta		Diac			00				
	Prunus serotina		wild	black cherry / 3		10	FACU			
	Carya ovata		shag	bark hickory / 5		5	FACU			
<u>X</u>	Quercus rubra		norti	nern red oak / 5		60	FACU			
% Species that	at are OBL, FACW	, or FAC (except FAC	C-): 33	ſ	NOTE: Species in c	apital letters denote no	on-native species			
Remarks										
This samp	le point is not do	minated by hydrop	phytic species.							
lydrology			Primary Wet	land Hydrology Indic	ators 3	Secondary Hydrology I	Indicators			
[] Recorde	d Data (describe ir	n remarks)	[] Inund	ated		[] Oxidized root ch	nannels			
[]S	tream, Lake, or Tic	le Gage	[] Satura	ated in upper 12 incl	hes] Water-stained le	eaves			
[] A	erial Photograph	C C	[]Water	marks		[] Local soil survey	v data			
[] C	ther (describe in re	emarks)	[]Drift li	nes		[] FAC-Neutral tes	st			
		/	[]Sedin	nent deposits		[] Other (explain in	n remarks)			
Field Obser	vations:		[]Drain	age patterns in wetla	ands	[]]=====(========	, , , , , , , , , , , , , , , , , , , ,			
Deptl	h of Surface Water	(in.): 0	[] 5.0	ago pationio in notic						
Deptl	h to Free Water in	Pit(in.): >18								
Deptl	n to Saturated Soils	s(in.): >18								
Bomarke										
Thoro wor	no wotland byd	rology indicators of	beenved at this	, point						
				s point.						
DOIIS Linit Name [,] F	odae silt loam		Tayor	omy: Typic Hanlu	dalfe					
Drainaga Clar				ald Observations mo						
Drainage Clas	SS: Well		[][]	eld Observations ma	atch map					
Depth Hor.	Matrix	Mottle / 2nd Mo	ottle	Contract	l exture,					
(In.)		Color	Abundance	Contrast	Structure, etc.					
0-14 1/ 18	10TR 2/2 10VP 5/4		fow	faint	Silt Loam					
1-1-10	10111 3/4	10111 4/4	1610	iaiilt						
Hydric Soils	Indicators									
[] Histo	sol			[] Concretions						
[] Histio	c Epipedon			[] High Organic %	in Surface Layer in	n Sandy Soils				
[] Sulfic	dic Odor			[] Organic Streaki	ing in Sandy Soils					
[] Prob	able Aquatic Moist	Regime		[] Listed on Local	Hydric Soils List					
[] Redu	ucing Conditions			[] Listed on Nation	nal Hydric Soils List	t				
[] Gley	ed or Low-Chroma	Colors		[] Other (explain i	n remarks)					
Remarks										
Netland D	termination									
[No] Hydrop	hytic Vegetation P	resent		[No] This Data Poir	nt is a Wetland					

[No] Hydrophytic Vegetation Present [No] Hydric Soils Present

[No] Wetland Hydrology Present

Remarks

This depression is a glacial kettle. However, it is not a wetland.



	consurring, mer y p			Job Number: 0	09-0265-01				
Data Form				Town/Village/City: Verona					
Routine V	Vetland Determi	nation		Wetland Data F	Point: P-02				
Project/Site:	liborty Business Bark			Date: Nover	abor 03 2009				
Applicant/Our	Liberty Business Park			Date. Noven	iber 03, 2009				
Applicant/Owr				County: Dan	e				
Investigator:	Jeff Kraemer			State: WI					
[Yes] Do norm	nal circumstances exist	t on the site?		Community II	D: Upland				
[No] Is the site	e significantly disturbed	(Atypical Situation)?		Station ID:					
[No] Is the are	a a potential problem	area?		Plot ID: P-0)2				
Vegetation									
Dominant	Species		Common Name / CofC		% Cover	Indicator			
Herbaceous									
Х	Geum canadense		white avens / 2		2	FAC			
<u>Shrub</u>					-				
	Rubus occidentalis		black raspberry / 2		2	[UPL]			
N/	LONICERA X BELLA	4	Bell's honeysuckle		2	[FACU]			
X	Ribes cynosbati		dogberry / 3		20				
× Troo	Prunus virginiana		chokecherry / 3		5	FAC-			
Tree	Acer negundo		box elder / 0		5	EACW/			
	I llmus americana		American elm / 3		5	FACW-			
	Carva ovata		shadbark bickory / 5		5	FACIL			
х	Quercus rubra		northern red oak / 5		75	FACU			
% Species that	at are OBL. FACW. or	FAC (except FAC-): 25	NOTE	E: Species in capita	al letters denote no	on-native species.			
Remarks	, , , , , ,	- (
The vegets	ation at this sample i	noint is not dominated l	by hydrophytic species						
	ation at this sample	point is not dominated i	by hydrophytic species.						
Hydrology		Prima	ary Wetland Hydrology Indicators	s Secc	ondary Hydrology I	Indicators			
[] Recorde	d Data (describe in rer	marks) [] Inundated]] Oxidized root ch	nannels			
[]S	tream, Lake, or Tide G	age [] Saturated in upper 12 inches	[] Water-stained le	eaves			
[] A	erial Photograph	1	1 Water marks	1	1 Local soil surve	v data			
[] 0	ther (describe in rema	rks) [1 Drift lines	ſ	1 FAC-Neutral tes	s st			
[]0		[1 Sediment deposits	L T] Other (explain in	n romarke)			
Field Observ	vations:	l		L		rienarks)			
Depth	n of Surface Water(in.)	: 0 L	J Drainage patterns in wetlands						
Depth	n to Free Water in Pit(i	n) [.] >18							
Denth	to Saturated Soils(in): >18							
Depti). 210							
Remarks									
There were	e no observed indica	ators of wetland hydrold	bgy.						
Soils									
Unit Name: K	(idder loam		Taxonomy: Typic Hapludalfs						
Drainage Clas	e: modoratoly well		[Y] Field Observations match	man					
Dialitage Clas	S. Inoueratery wen			nap 					
Depth Hor.	Matrix	Mottle / 2nd Mottle		l exture,					
(in.)	Color	Color Abund	lance Contrast S	Structure, etc.					
0-10	10YR 3/2			Silt Loam					
10-18	10YR 5/4		5	Silt Loam					
Hydric Soils	Indicators								
[] Histo	sol		[] Concretions						
[] Liotia	Eninedon			Surface Lavor in Sa	ndy Soils				
					nuy Solis				
[] Sulfic			[] Organic Streaking in	Sandy Solls					
[] Proba	able Aquatic Moist Reg	gime	[] Listed on Local Hyd	ric Soils List					
[]Redu	cing Conditions		[] Listed on National H	lydric Soils List					
[] Gleye	ed or Low-Chroma Col	ors	[] Other (explain in ren	narks)					

Remarks

Remarks

Wetland Determination

[No] Hydrophytic Vegetation Present[No] Hydric Soils Present[No] Wetland Hydrology Present

[No] This Data Point is a Wetland

This is an upland point along the margin of an off-site wetland.



Natural Resource	es Consulting, Inc.				Job Number: 009-	0265-01	
Data For	m				Town/Village/City:	Verona	
Routine \	Netland Determ	ination			Wetland Data Poin	t: P-03	
Draigat/Sita:	Liborty Rusinsso Bar	r			Data: Navamba	02 2000	
Applicant/Ow	Liberty Business Par	ĸ			Date: November	03, 2009	
Applicant/Ow					Stata: WI		
	mal circumstances exis	t on the site?				Notland 1a	
	a significantly disturbe	d (Atypical Situatio	n)2		Station ID:		
[Yes] is the a	rea a notential problem	a (Alypical Ollualio 1 area?					
Vogotation					110(10). 1-00		
Dominant	I Snecies		Comn	on Name / CofC		% Cover	Indicator
Herbaceous	opecies		001111	ion Name / Coro		78 COVEI	Indicator
X	Geum canadense		white	avens / 2		2	FAC
Tree							
X	Ulmus americana		Ameri	can elm / 3		20	FACW-
X % Species th	at are OBL_FACW_or	FAC (except FAC	DOX EI	der/ U	IOTE: Species in capital le	tters denote no	n-native species
Remarks). 100				
Hydronhy	tic species dominate	the vegetation b	nere				
Hydrology							
i iyu ology			Primary Wetla	nd Hydrology Indica	ators Seconda	ary Hydrology I	ndicators
[]Record	ed Data (describe in re	marks)	[] Inundat	ed	[X] C	xidized root ch	annels
[]8	Stream, Lake, or Tide G	Bage	[] Saturat	ed in upper 12 inch	les [X] V	Vater-stained le	aves
[]/	Aerial Photograph		[X] Water r	narks		ocal soil survey	/ data
[](Other (describe in rema	irks)		es	[X] F	AC-Neutral tes	t
Field Obser	rvations:				[]C	other (explain in	remarks)
Dept	th of Surface Water(in.)): 0	[] Drainag	je patterns in wetia	nas		
Dept	th to Free Water in Pit(in.): >18					
Dept	th to Saturated Soils(in	.): >18					
Domorko							
Identified :	as a problem area d	ue to seasonal o	courence of we	tland hydrology			
Soils				and nyarology.			
Unit Name:	Dodge and Kidder soi	ls	Taxono	mv: NA			
Drainage Cla	iss: well		[] Fiel	d Observations ma	tch map		
Denth Hor	Matrix	Mottle / 2nd Mot	tlo		Texture		
(in.)	Color	Color	Abundance	Contrast	Structure, etc.		
0-4	10YR 3/2				Silt Loam		
4-11	10YR 3/2	10YR 5/6	common	prominent	Silt Loam		
11-18	10YR 4/1	10YR 5/6	common	prominent	Silt Loam		
Hydric Soil	s Indicators						
			r	1 Concretions			
[]⊓เรเ เา⊔:⊶ะ	ic Eninedon		l		in Surface Lover in Sendu	Soils	
[]⊓ISU	idia Odor		l		in Sunace Layer III Sandy	00115	
[] Suii	iuic Ouoi abla Aquatia Maiat Da	aima	l	J Organic Streaki	ly III Salluy Sulls		
	value Aqualic Moist Re	gine	l] Listed on Local	Hydric Solls List		
	ucing Conditions	lora	l] Listed on Nation			
		1015	l		i i ci i di KS)		
Remarks							
F6. Redo	x Dark Surface.						
Wetland D	etermination						
[Yes] Hydro	phytic Vegetation Pres	sent	[Yes] This Data Poir	nt is a Wetland		
[Yes] Hydri	c Soils Present		-				
[Yes] Wetla	nd Hydrology Present						
Remarks							

This is the edge of an ephemeral wetland - Wetland 1a.



Data Forr	s Consulting, Inc. W				Job Num Town/Vill	ber: 009-0265-01 age/City: Verona	
Routine V	Vetland Deter	mination			Wetland I	Data Point: P-04	
Project/Site: Applicant/Ow	Liberty Business F ner: Jeff Kraemer	Park			Date: N County: State: N	lovember 03, 2009 Dane MI	
[Yes] Do norr	nal circumstances e	exist on the site?			Commu	nity ID: Wetland 1b	
[No] Is the sit	e significantly distur	rbed (Atypical Situa	tion)?		Station	ID:	
[Yes] Is the a	rea a potential prob	lem area?			Plot ID	: P-04	
egetation) Species		Con	man Nama / CofC		% Cover	Indicator
Herbaceous	Species		Con	Informatile / Corc		% Cover	indicator
X	Geum canadense	е	whit	e avens / 2		2	FAC
<u>Shrub</u>				man bucktharn		2	FACU
х	Sambucus canad	HARTICA Iensis	elde	rberry / 3		∠ 15	FACU FACW-
Tree	Cumbuouo cumu					10	i / low
	Carya ovata		shag	gbark hickory / 5		5	FACU
X	Acer negundo	•	box	elder / 0		10	FACW-
% Species th	at are OBL. FACW.	or FAC (except FA	C-): 100	N	OTE: Species in	capital letters denote no	n-native specie
Remarks	,,		- /		•	•	
This point	is dominated by I	hydrophytic speci	es.				
lydrology	, , , , , , , , , , , , , , , , , , ,		Primary Wet	land Hydrology Indic	ators	Secondary Hydrology I	ndicators
[]Recorde	ed Data (describe in	remarks)		ated		[] Oxidized root ch	annels
[]::000:04	Stream. Lake. or Tid	e Gage	[] Satur	ated in upper 12 inch	es	[] Water-stained le	eaves
[]A	erial Photograph		[]Wate	marks		[] Local soil surve	v data
[]0	Other (describe in re	emarks)	[]Drift li	ines		[X] FAC-Neutral tes	st
5.11.01		,	[]Sedin	nent deposits		[] Other (explain ir	n remarks)
Field Obser	vations:		[X] Drain	age patterns in wetla	nds		
Dept	n of Sufface Water	(IN.): U ⊃it/in.): ►49					
Dept	h to Soturotod Soils	~11(111.). >10					
Dept		s(iii.). > 10					
Remarks							
This point	was identified as	a problem area d	ue to the sease	onal occurenceof w	etland hydrolo	gy.	
SOIIS	Dodgo and Kiddor	noile	Таха				
		50115		old Observations me	1 . h		
Drainage Cia	SS: Well		[] FI	eld Observations ma	tcn map		
Depth Hor	. Matrix	Mottle / 2nd M	Ottle	Contract	l exture,		
0-3	10YR 2/2	000	Abundance	Contrast	Silt Loam	•	
3-8	10YR 3/2	10YR 5/6	common	prominent	Silt Loam		
8-18	10YR 5/1	10YR 5/6	many	prominent	Silt Loam		
Hydric Soils							
1 Histo	naicalors						
[]Histi	c Eninedon			[] High Organic %	in Surface Laver	in Sandy Soils	
[]]]]0	dic Odor			[] Organic Streakir	nn odnace Layer		
I I Sulfi	able Aquatic Moist	Regime		[] Listed on Local	Hydric Soils List		
[]Sulfi []Prob		. toginio		[] Listed on Nation	al Hydric Soils Li	st	
[] Sulfi [] Prob [] Redu	ucing Conditions						
[] Sulfi [] Prob [] Redi [X] Glev	ucing Conditions	Colors		[] Other (explain in	remarks)		
[] Suffi [] Prob [] Redu [X] Gley	ucing Conditions red or Low-Chroma	Colors		[] Other (explain ir	remarks)		
[] Suffi [] Prob [] Redu [X] Gley Remarks F3. Deplet	ucing Conditions red or Low-Chroma red Matrix and F6	Colors . Redox Dark Su	rface	[] Other (explain ir	n remarks)		
[] Sum [] Prob [] Redu [X] Gley Remarks F3. Deplet Vetland D	ucing Conditions red or Low-Chroma red Matrix and F6 etermination	Colors . Redox Dark Su	rface	[] Other (explain ir	n remarks)		
[] Suffi [] Prob [] Redu [X] Gley Remarks F3. Deplet Vetland D	ucing Conditions red or Low-Chroma red Matrix and F6 etermination	Colors . Redox Dark Su Present	rface	[] Other (explain ir [Yes] This Data Poir	n remarks)		
[] Suffi [] Prob [] Redu [X] Gley Remarks F3. Deplet Vetland D [Yes] Hydro [Yes] Hydro	ucing Conditions red or Low-Chroma red Matrix and F6 etermination phytic Vegetation F c Soils Present	Colors . Redox Dark Su Present	rface	[] Other (explain ir [Yes] This Data Poir	n remarks)		
[] Suffi [] Prob [] Redu [X] Gley Remarks F3. Deplet Vetland D [Yes] Hydro [Yes] Hydrio [Yes] Wetla	ucing Conditions red or Low-Chroma red Matrix and F6 etermination phytic Vegetation F c Soils Present nd Hydrology Prese	Colors <u>Redox Dark Su</u> Present	rface	[] Other (explain ir [Yes] This Data Poir	n remarks)		
[] Suffi [] Prob [] Redu [X] Gley Remarks F3. Deplet Vetland D [Yes] Hydro [Yes] Hydro [Yes] Wetla Remarks	ucing Conditions red or Low-Chroma red Matrix and F6 etermination phytic Vegetation F c Soils Present nd Hydrology Prese	Colors . Redox Dark Su Present ent	rface	[] Other (explain ir [Yes] This Data Poir	n remarks)		



Routine V	Vetland Determination	n		I own/Village/Ci Wetland Data P	ty: Verona oint: P-05	
Project/Site: 1	Liberty Business Park			Date: Novem	ber 03, 2009	
Applicant/Owi				State: MI	,	
	al circumstances exist on the	sito?			linland	
[No] is the site	a significantly disturbed (Atypic	al Situation)?		Station ID:		
[No] is the are	a a notential problem area?				F	
					5	
Dominant	Species		Common Nomo / CofC		% Cover	Indicator
Herbaceous	opecies		Common Name / Corc		% Cover	Indicator
X	Geum canadense		white avens / 2		2	FAC
<u>Shrub</u>						
Х	Prunus virginiana		chokecherry / 3		5	FAC-
X	Rubus occidentalis		black raspberry / 2		15	[UPL]
Iree	Celtis occidentalis		northern hackberry / 4		10	FAC-
	Prunus serotina		wild black cherry / 3		5	FACU
	Carya ovata		shagbark hickory / 5		5	FACU
<u> </u>	Quercus rubra		northern red oak / 5		70	FACU
% Species that	at are OBL, FACW, or FAC (ex	cept FAC-): 25		NOTE: Species in capita	l letters denote no	on-native spec
Remarks	ation is not dominated by h	vdrophytic spe	ecies			
-lvdrology		<u>,</u>				
iyarology		Prii	mary Wetland Hydrology Indi	cators Secol	ndary Hydrology I	ndicators
[]Recorde	d Data (describe in remarks)			. !] Oxidized root ch	annels
[]S	tream, Lake, or Tide Gage		Saturated in upper 12 inc	hes [] Water-stained le	aves
[]A	erial Photograph		[] Water marks]] Local soil survey	y data
[]0	other (describe in remarks)		[] Drift lines	[] FAC-Neutral tes	t
Field Obser	vations:		[] Sediment deposits]] Other (explain ir	n remarks)
Dept	n of Surface Water(in.): 0		[] Drainage patterns in wetl	ands		
Dept	n to Free Water in Pit(in): >18	1				
Depth	h to Saturated Soils(in.): >18					
Depth	h to Saturated Soils(in.): >18					
Deptl Remarks	n to Saturated Soils(in.): >18	oserved				
Depti Remarks There were	n to Saturated Soils(in.): >18	oserved.				
Depti Remarks There were Soils Unit Name: K	n to Saturated Soils(in.): >18 e no hydrology indicators ol	oserved.	Taxonomy: Typic Hapl u	Idalfs		
Depti Remarks There were Soils Unit Name: K Drainage Class	n to Saturated Soils(in.): >18 e no hydrology indicators of Kidder Ioam	oserved.	Taxonomy: Typic Hapl	Idalfs		
Depti Remarks There were Soils Unit Name: K Drainage Class	n to Saturated Soils(in.): >18 e no hydrology indicators of Kidder Ioam ss: well Matrix Mattle	oserved.	Taxonomy: Typic Haplu [] Field Observations m	idalfs atch map		
Deptil Remarks There were Soils Unit Name: K Drainage Class Depth Hor. (in)	n to Saturated Soils(in.): >18 e no hydrology indicators of Kidder Ioam ss: well Matrix Mottle Color Color	oserved.	Taxonomy: Typic Haplu [] Field Observations m	idalfs atch map Texture, Structure, etc.		
Deptil Remarks There were Soils Unit Name: K Drainage Clas Depth Hor. (in.) 0-11	n to Saturated Soils(in.): >18 a no hydrology indicators of Kidder Ioam ss: well Matrix Mottle Color Color 10YR 3/2	oserved. / 2nd Mottle Abu	Taxonomy: Typic Haplı [] Field Observations m Indance Contrast	idalfs atch map Texture, Structure, etc. Silt Loam		
Deptil Remarks There were Soils Unit Name: K Drainage Class Depth Hor. (in.) 0-11 11-18	n to Saturated Soils(in.): >18 e no hydrology indicators of Kidder Ioam ss: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4	oserved. / 2nd Mottle Abu	Taxonomy: Typic Haplı [] Field Observations m undance Contrast	idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam		
Deptil Remarks There were Soils Unit Name: K Drainage Class Depth Hor. (in.) 0-11 11-18 Hudrig Spile	n to Saturated Soils(in.): >18 e no hydrology indicators of Cidder Ioam Ss: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4	oserved. / 2nd Mottle Abu	Taxonomy: Typic Haplu [] Field Observations m Indance Contrast	idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam		
Deptil Remarks There were Soils Unit Name: K Drainage Class Depth Hor. (in.) 0-11 11-18 Hydric Soils	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4 Indicators pol	oserved. / 2nd Mottle Abu	Taxonomy: Typic Haplu [] Field Observations m Indance Contrast	idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam		
Deptil Remarks There were Soils Unit Name: K Drainage Class Depth Hor. (in.) 0-11 11-18 Hydric Soils [] Histor T 1445	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4 Indicators Iosol	oserved. / 2nd Mottle Abu	Taxonomy: Typic Haplu [] Field Observations m Indance Contrast	idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam	ndu Soil-	
Deptil Remarks There were Soils Unit Name: K Drainage Clas Depth Hor. (in.) 0-11 11-18 Hydric Soils []Histoo []Histoo	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4 Indicators psol c Epipedon	oserved. / 2nd Mottle Abu	Taxonomy: Typic Haplu [] Field Observations m indance Contrast [] Concretions [] High Organic %	idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam	ndy Soils	
Deptl Remarks There were Soils Unit Name: K Drainage Clas Depth Hor. (in.) 0-11 11-18 Hydric Soils []Histoi []Sulfici []Sulfici []Sulfici	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4 Indicators Indicators Iogle Epipedon dic Odor	oserved. / 2nd Mottle Abu	Taxonomy: Typic Haplu [] Field Observations m <u>undance Contrast</u> [] Concretions [] High Organic % [] Organic Streak	Idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam 6 in Surface Layer in Sar ting in Sandy Soils	ndy Soils	
Deptil Remarks There were Soils Unit Name: K Drainage Clas Depth Hor. (in.) 0-11 11-18 Hydric Soils [] Histo [] Histo [] Sulfic [] Prob	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4 Indicators Indicators Indicators Sol Cepipedon dic Odor able Aquatic Moist Regime	oserved.	Taxonomy: Typic Haplu [] Field Observations m Indance Contrast [] Concretions [] High Organic % [] Listed on Loca	Idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam 6 in Surface Layer in Sar ing in Sandy Soils I Hydric Soils List	ndy Soils	
Deptil Remarks There were Soils Unit Name: K Drainage Clas Depth Hor. (in.) 0-11 11-18 Hydric Soils []Histo []Histo []Sulfic []Probu []Redu	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4 Indicators Indicators Indicators Sol Color DyR 4/4 Indicators Sol Color DyR 4/4 Indicators Sol Color DyR 4/4 Indicators Sol Color DyR 4/4 Indicators Sol Color DyR 4/4 Indicators Sol Color DyR 4/4 Indicators Sol Color DyR 4/4 Indicators Dyr Dyr Dyr Dyr Dyr Dyr Dyr Dyr	2nd Mottle Abu	Taxonomy: Typic Haplu [] Field Observations m <u>undance Contrast</u> [] Concretions [] High Organic % [] Organic Streak [] Listed on Loca [] Listed on Natio	ndalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam 6 in Surface Layer in Sar ing in Sandy Soils I Hydric Soils List anal Hydric Soils List	ndy Soils	
Deptil Remarks There were Soils Unit Name: K Drainage Class Depth Hor. (in.) 0-11 11-18 Hydric Soils [] Histo [] Histo [] Sulfic [] Proba [] Redu [] Gleye	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4 Indicators Indicators Indicators Sol c Epipedon dic Odor able Aquatic Moist Regime ucing Conditions ed or Low-Chroma Colors	2nd Mottle Abu	Taxonomy: Typic Haplu [] Field Observations m undance Contrast [] Concretions [] High Organic 9 [] Organic Streak [] Listed on Loca [] Listed on Natic [] Other (explain	ndalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam 6 in Surface Layer in Sar ing in Sandy Soils I Hydric Soils List innal Hydric Soils List in remarks)	ndy Soils	
Deptil Remarks There were Soils Unit Name: M Drainage Class Depth Hor. (in.) 0-11 11-18 Hydric Soils []Histo []Histo []Histo []Sulfic []Prob: []Redu []Gleye Remarks	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4 Indicators SSOL c Epipedon dic Odor able Aquatic Moist Regime ucing Conditions ed or Low-Chroma Colors a no hydric soil indicators of a no hydric soil indicators of	bserved	Taxonomy: Typic Haplu [] Field Observations m Indance Contrast [] Concretions [] High Organic % [] Organic Streak [] Listed on Loca [] Listed on Natic [] Other (explain	Idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam 6 in Surface Layer in Sar ing in Sandy Soils I Hydric Soils List in remarks)	ndy Soils	
Deptil Remarks There were Soils Unit Name: K Drainage Class Depth Hor. (in.) 0-11 11-18 Hydric Soils [] Histo [] Histo [] Sulfic [] Sulfic [] Gleye Remarks There were Netland De	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4 Indicators Indicators Sol c Epipedon dic Odor able Aquatic Moist Regime ucing Conditions ed or Low-Chroma Colors a no hydric soil indicators of etermination	bserved.	Taxonomy: Typic Haplu [] Field Observations m undance Contrast [] Concretions [] High Organic 9 [] Organic Streak [] Listed on Loca [] Listed on Natic [] Other (explain	Idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam 6 in Surface Layer in Sar ing in Sandy Soils I Hydric Soils List in al Hydric Soils List in remarks)	ndy Soils	
Deptil Remarks There were Soils Unit Name: K Drainage Class Depth Hor. (in.) 0-11 11-18 Hydric Soils [] Histo [] Histo [] Sulfid [] Sulfid [] Gleye Remarks There were Netland De	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix <u>Mottle</u> Color Color 10YR 3/2 10YR 4/4 Indicators Isol c Epipedon dic Odor able Aquatic Moist Regime ucing Conditions ed or Low-Chroma Colors a no hydric soil indicators of etermination hytic Vegetation Present	bserved.	Taxonomy: Typic Haplu [] Field Observations m undance Contrast [] Concretions [] High Organic % [] Organic Streak [] Listed on Natic [] Other (explain [] Other (explain [] No] This Data Poi	Idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam 6 in Surface Layer in Sar ing in Sandy Soils I Hydric Soils List inal Hydric Soils List in remarks)	ndy Soils	
Deptil Remarks There were Soils Unit Name: K Drainage Class Depth Hor. (in.) 0-11 11-18 Hydric Soils [] Histo [] Histo [] Sulfic [] Sulfic [] Gleye Remarks There were Netland Dec [No] Hydrop	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4 Indicators Isol c Epipedon dic Odor able Aquatic Moist Regime ucing Conditions ed or Low-Chroma Colors a no hydric soil indicators of etermination hytic Vegetation Present Soils Present	bserved.	Taxonomy: Typic Haplu [] Field Observations m undance Contrast [] Concretions [] High Organic % [] Organic Streak [] Listed on Loca [] Listed on Natic [] Other (explain [No] This Data Poi	Idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam 6 in Surface Layer in Sar ing in Sandy Soils I Hydric Soils List inal Hydric Soils List in remarks)	ndy Soils	
Deptil Remarks There were Soils Unit Name: K Drainage Class Depth Hor. (in.) 0-11 11-18 Hydric Soils [] Histo [] Histo [] Sulfic [] Sulfic [] Gleye Remarks There were Netland Definition [No] Hydric S [No] Hydric	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4 Indicators Isol c Epipedon dic Odor able Aquatic Moist Regime ucing Conditions ed or Low-Chroma Colors a no hydric soil indicators of etermination hytic Vegetation Present Soils Present d Hydrology Present	bserved.	Taxonomy: Typic Haplu [] Field Observations m undance Contrast [] Concretions [] High Organic % [] Organic Streak [] Listed on Natic [] Listed on Natic [] Other (explain [No] This Data Poi	Idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam 6 in Surface Layer in Sar ing in Sandy Soils I Hydric Soils List inal Hydric Soils List in remarks)	ndy Soils	
Deptil Remarks There were Soils Unit Name: K Drainage Class Depth Hor. (in.) 0-11 11-18 Hydric Soils [] Histic [] Histic [] Sulfic [] Sulfic [] Gleye Remarks There were Netland Dec [No] Hydrop [No] Hydrop [No] Hydrop	n to Saturated Soils(in.): >18 a no hydrology indicators of Gidder Ioam SS: well Matrix Mottle Color Color 10YR 3/2 10YR 4/4 Indicators Indic	bserved.	Taxonomy: Typic Haplu [] Field Observations m undance Contrast [] Concretions [] High Organic % [] Organic Streak [] Listed on Loca [] Listed on Natic [] Other (explain [No] This Data Poi	Idalfs atch map Texture, Structure, etc. Silt Loam Silty Clay Loam 6 in Surface Layer in Sar ing in Sandy Soils I Hydric Soils List inal Hydric Soils List in remarks)	ndy Soils	



Natural Resources	Consulting, Inc.				Jo	b Number: 00	09-0265-01	
Data Forn	n				To	own/Village/Ci	ty: Verona	
Routine V	Vetland Determination	on			W	etland Data P	oint: P-06	
Project/Site: I Applicant/Owr	Liberty Business Park					Date: Novem County: Dane State: W	ber 03, 2009	
	al circumstances exist on th	e site?				Community ID	· Linland	
[No] is the site	significantly disturbed (Atvn	ical Situation)?				Station ID:		
[No] is the are	a a potential problem area?					Plot ID. P-0	6	
Vegetation							•	
Dominant	Species		Com	nmon Name / CofC			% Cover	Indicator
Herbaceous	•							
X	Geum canadense		white	e avens / 2			2	FAC
<u>Shrub</u>	RHAMNUS CATHARTICA		com	mon buckthorn			5	FACIL
Х	Prunus virginiana		choł	cherry / 3			10	FAC-
Х	Sambucus canadensis		elde	rberry / 3			15	FACW-
X T	Zanthoxylum americanum		com	mon prickly-ash / 3	3		10	UPL
<u>I ree</u>	Acer negundo		box	elder / 0			10	FACW-
	Quercus alba		white	e oak / 7			5	FACU
	Prunus serotina		wild	black cherry / 3			2	FACU
X % Spacing the		woont EAC): A	norti	nern red oak / 5		cies in canita	70 Lletters denote no	FACU
Pomarke	at ale OBE, I AGW, OF I AG (6	except 1 AC-). 4	0		NOTE: Opt		netters denote no	n-nalive species.
The vegeta	ation is not dominated by	hvdronhvtic sn	ecies					
Hydrology		-				-		
inydiology		Pr	imary Wet	and Hydrology Indi	icators	Secor	ndary Hydrology I	ndicators
[]Recorde	d Data (describe in remarks)		[] Inund	ated		l	Oxidized root ch	nannels
[]S	tream, Lake, or Tide Gage			ated in upper 12 inc	cnes	l] Water-stained le	eaves
[] A	erial Photograph			r marks		l] Local soil surve	y data
[]0	ther (describe in remarks)			nes		l] FAC-Neutral tes	st .
Field Observ	vations:		[]Sedin	ient deposits	landa	l] Other (explain ir	n remarks)
Depth	n of Surface Water(in.): 0		[] Draina	age patterns in wet	lands			
Depth	n to Free Water in Pit(in.): >	10						
Depth	n to Saturated Soils(in.): >10	1						
Demerke								
There were	no hydrologic indicators	observed						
Soils		00301700.						
Unit Name [.] D	odge and Kidder soils		Taxor	nomv. NA				
Drainage Clas	ss. well		[] Fi	eld Observations m	natch man			
Denth Hor	Matrix Mott	le / 2nd Mottle	[].,		Toytur	ò		
(in.)	Color Color	r Ab	undance	Contrast	Structi	ure. etc.		
0-9	10YR 2/2				Silt Lo	am		
9-10	2.5Y 5/3				Silt Lo	am		
Hvdric Soils	Indicators							
[] Histo	sol			[] Concretions				
[] Histic	: Epipedon			[] High Organic %	% in Surfac	e Laver in Sar	dv Soils	
[] Sulfic	lic Odor			[] Organic Streak	king in Sand	dy Soils	·)	
[]Prob	able Aquatic Moist Regime			[] Listed on Local	al Hydric So	ils List		
[]Redu	icing Conditions			[] Listed on Natio	onal Hydric	Soils List		
[] Gleye	ed or Low-Chroma Colors			[] Other (explain	in remarks)		
Remarke					·			
There were	e no hydric soil indicators	observed.						
Wetland De	termination							
N-11bala					int in - 14/	and		
[No] Hydrop	nyuc vegetation Present			[NO] I NIS Data Poir	int is a Wet	ana		
[No] Hydric S	Solis Present							
	a myarology Present							
Kemarks	e a low lying unland near	a culvert						
i nis point i	s a low lying upland near	a cuivert.						



Natural Resources Consulting, Inc.	2			.lob Number: 009-0265-01
Data Form			Town/Village/City: Verona	
Routine Wetland Dete	ermination			Wetland Data Point: P-07
Project/Site: Liberty Business Applicant/Owner: Investigator: Jeff Kraemer [Yes] Do normal circumstances	s Park			Date: November 03, 2009 County: Dane State: WI Community ID: Wetland 2
[No] Is the site significantly dist	turbed (Atypical Situation)	?		Station ID:
[No] Is the area a potential pro	blem area?			Plot ID: P-07
Vegetation				
Dominant Species		Com	mon Name / CofC	% Cover Indicator
Х				
% Species that are OBL, FAC	N, or FAC (except FAC-):		N	NOTE: Species in capital letters denote non-native species.
Remarks				
There was no vegetation	adjacent to or within the	e pond.		
Hydrology		Primary Wetl	and Hydrology Indic	ators Secondary Hydrology Indicators
[X] Recorded Data (describe	in remarks)	[] Inunda	ated	[] Oxidized root channels
[] Stream, Lake, or T	ide Gage	[X] Satura	ated in upper 12 inch	nes [] Water-stained leaves
[X] Aerial Photograph		[]Water	marks	[] Local soil survey data
[] Other (describe in	remarks)	[]Drift lii	nes	[] FAC-Neutral test
Field Observations: Depth of Surface Wate Depth to Free Water in Depth to Saturated Sc	er(in.): 0 n Pit(in.): 4 iils(in.): 0	[] Draina	age patterns in wetla	inds
Remarks Sample point is at the por	nd margin. The pond co	ontains oper	n water with depth	ns estimated to 3 feet.
Soils		T		
Unit Name: Kidder Ioam		Taxon	omy: Iypic Hapiuc	dairs
Drainage Class: well		[]=16	eld Observations ma	
(in) Color	Color	Abundance	Contrast	l exture, Structure, etc.
0-16 10YR 5/1	10YR 5/6	common	prominent	Silty Clay Loam
Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Mois [] Reducing Conditions [X] Gleyed or Low-Chrom Remarks	st Regime la Colors		 Concretions High Organic % Organic Streakin Listed on Local Listed on Nation Other (explain in 	in Surface Layer in Sandy Soils ng in Sandy Soils Hydric Soils List nal Hydric Soils List n remarks)
Wotland Determination	1			
[No] Hydrophytic Vegetation [Yes] Hydric Soils Present [Yes] Wetland Hydrology Pre	Present sent		[Yes] This Data Poir	nt is a Wetland

Remarks

This data point is adjacent to a pond which contained an estimated three feet of water. Vegetation was not present.



						City: Ver				
Data Form	n				Town/Village		ona			
Routine Wetland Determination				Wetland Data Point: P-08						
Project/Site: I	iberty Business Park				Date: Nov	ombor 03_2	2009			
Applicant/Own	her.				County: D	ano	-003			
Investigator	loff Kraomor				State: WI	ane				
		on the site?			Sidle. WI		4			
[Yes] Do norm	ai circumstances exis	on the site?	•		Community	(ID: Upland	a			
[No] Is the site	e significantly disturbed	(Atypical Situation)	?		Station ID:					
[No] Is the area	a a potential problem	area?			Plot ID: F	P-08				
legetation										
Dominant	Species		Cor	nmon Name / CofC		%	Cover	Indicator		
X	Geum canadense		whit	te avens / 2		5		FAC		
Shrub						C C				
	Prunus virginiana		cho	kecherry / 3		2		FAC-		
Х	RHAMNUS CATHAF	RTICA	com	nmon buckthorn		10	0	FACU		
<u>Tree</u>	D			likita da da 🗧			•	FACU		
	Prunus serotina		wild	Diack cherry / 3		10	U	FACU		
	Acer negundo		box	elaer / U		2		FACW-		
×	Carya ovata		sna	yuark nickory / 5		5	0	FACU		
A % Species the		EAC (except EAC)	22 nort		E: Species in se)/ hital lettors a	U denoto no	FACU n nativo onoc		
	at are UDL, FAUVV, OF		55	NUT				m-nauve spec		
Remarks	tion was not down!	atod by by deside of								
i ne vegeta	auon was not domina	alea by hydrophyti	ic species.							
Hydrology			Primary Wet	tland Hydrology Indicato	rs Se	econdary Hy	drology I	ndicators		
[] Recorded	d Data (describe in rer	narks)	[] Inunc	dated		[] Oxidize	ed root ch	annels		
[]St	tream. Lake. or Tide G	age	[]Satur	rated in upper 12 inches		[] Water-	stained le	aves		
	, ,	- J -		eres subles eres						
[]]]	erial Photograph		 [] Wate	r marke			coil curvo	cteh v		
[] Ae	erial Photograph		[]Wate	er marks		[]Local s	soil surve	y data		
[] Ae [] Ot	erial Photograph ther (describe in rema	rks)	[] Wate [] Drift I	er marks lines		[] Local s [] FAC-N	soil survey leutral tes	y data it		
[] Ae [] Ot Field Observ	erial Photograph ther (describe in rema /ations:	rks)	[] Wate [] Drift I [] Sedir	er marks lines ment deposits		[] Local s [] FAC-N [] Other (soil survey leutral tes (explain ir	y data it n remarks)		
[] Ae [] Ot Field Observ	erial Photograph ther (describe in rema vations:	rks)	[] Wate [] Drift I [] Sedir [] Drain	r marks lines nent deposits lage patterns in wetlands	s	[] Local s [] FAC-N [] Other (soil survey leutral tes (explain ir	y data it n remarks)		
[]Ae []Ot Field Observ Depth	erial Photograph ther (describe in remain vations: n of Surface Water(in.)	rks)	[] Wate [] Drift I [] Sedir [] Drain	r marks lines nent deposits lage patterns in wetlands	S	[] Local s [] FAC-N [] Other (soil survey leutral tes (explain ir	y data it n remarks)		
[]Ae []]Ot Field Observ Depth Depth	erial Photograph ther (describe in rema vations: n of Surface Water(in.) n to Free Water in Pit(i	rks) : 0 n.): >16	[] Wate [] Drift I [] Sedir [] Drain	er marks lines ment deposits nage patterns in wetlands	S	[] Local s [] FAC-N [] Other (soil surve <u>y</u> leutral tes (explain ir	y data it n remarks)		
[]Ae []Ot Field Observ Depth Depth Depth	erial Photograph ther (describe in remain vations: n of Surface Water(in.) n to Free Water in Pit(in n to Saturated Soils(in.	rks) : 0 n.): >16): >16	[] Wate [] Drift I [] Sedir [] Drain	er marks lines ment deposits nage patterns in wetlands	S	[] Local s [] FAC-N [] Other (soil survey leutral tes (explain ir	y data it n remarks)		
[] Ae [] Ot Field Observ Depth Depth Depth	erial Photograph ther (describe in remain vations: n of Surface Water(in.) n to Free Water in Pit(in n to Saturated Soils(in.	rks) : 0 n.): >16): >16	[] Wate [] Drift I [] Sedir [] Drain	er marks lines ment deposits nage patterns in wetlands	S	[] Local s [] FAC-N [] Other (soil surve leutral tes (explain ir	y data t n remarks)		
[] Ae [] Ot Field Observ Depth Depth Depth Remarks	erial Photograph ther (describe in remain vations: n of Surface Water(in.) n to Free Water in Pit(ii n to Saturated Soils(in.	rks) : 0 n.): >16): >16 ay indicators obse	[] Wate [] Drift I [] Sedir [] Drain	er marks lines ment deposits hage patterns in wetlands	S	[] Local s [] FAC-N [] Other (soil surve leutral tes (explain ir	y data it n remarks)		
[] Ae [] Ot Field Observ Depth Depth Depth Remarks There were Soils	erial Photograph ther (describe in remain vations: n of Surface Water(in.) n to Free Water in Pit(ii n to Saturated Soils(in. e no wetland hydrolo	rks) : 0 n.): >16): >16 pgy indicators obse	[] Wate [] Drift I [] Sedir [] Drain	er marks lines nent deposits hage patterns in wetlands	5	[] Local s [] FAC-N [] Other (soil surve leutral tes (explain ir	y data it n remarks)		
[] Ae [] Ot Field Observ Depth Depth Depth Remarks There were Soils Unit Name: D	erial Photograph ther (describe in remain vations: In of Surface Water(in.) In to Free Water in Pit(in In to Saturated Soils(in. In to Saturated Soils(in. In to wetland hydrolcom	rks) : 0 n.): >16): >16 ogy indicators obse s	[] Wate [] Drift I [] Sedir [] Drain erved.	er marks lines ment deposits hage patterns in wetlands	S	[] Local s [] FAC-N [] Other (soil surve leutral tes (explain ir	y data t n remarks)		
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[] Ae [] Ot Field Observ Depth Depth Remarks There were Soils Unit Name: D Drainage Clas	erial Photograph ther (describe in remain vations: n of Surface Water(in.) n to Free Water in Pit(ii n to Saturated Soils(in. e no wetland hydrolo vodge and Kidder soil ss: well	rks) : 0 n.): >16): >16 pgy indicators observed s	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F	er marks lines ment deposits hage patterns in wetlands nomy: NA ield Observations match	s I map	[] Local s [] FAC-N [] Other (soil surve; leutral tes (explain ir	y data tt n remarks)		
[] Ae [] Ot Field Observ Depth Depth Remarks There were Soils Unit Name: Do Drainage Clas Depth Hor.	erial Photograph ther (describe in remain vations: n of Surface Water(in.) n to Free Water in Pit(ii n to Saturated Soils(in. e no wetland hydrolo bodge and Kidder soil ss: well Matrix Color	rks) : 0 n.): >16): >16 pgy indicators observed s Mottle / 2nd Mottle	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F	er marks lines ment deposits hage patterns in wetlands nomy: NA ield Observations match	s map Texture,	[] Local s [] FAC-N [] Other (soil surve; leutral tes (explain ir	y data it n remarks)		
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[] Ae [] Ot Field Observ Depth Depth Remarks There were Soils Unit Name: Di Drainage Clas Depth Hor. (in.) 0-16	erial Photograph ther (describe in remain vations: n of Surface Water(in.) n to Free Water in Pit(ii n to Saturated Soils(in. e no wetland hydrolo bodge and Kidder soil ss: well Matrix Color 10YR 2/2	rks) : 0 n.): >16): >16 ogy indicators observed s <u>Mottle / 2nd Mottle</u> <u>Color</u>	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F Abundance	er marks lines ment deposits nage patterns in wetlands nomy: NA ield Observations match <u>Contrast</u>	s map Texture, <u>Structure, etc.</u> Sitt Loam	[] Local s [] FAC-N [] Other (soil surve; leutral tes (explain ir	y data it n remarks)		
[] Ae [] Ot Field Observ Depth Depth Remarks There were Soils Unit Name: Di Drainage Clas Depth Hor. (in.) 0-16 16-20	erial Photograph ther (describe in remain vations: n of Surface Water (in.) n to Free Water in Pit(ii n to Saturated Soils(in. e no wetland hydrolo bodge and Kidder soil ss: well Matrix Color 10YR 2/2 10YR 4/4	rks) : 0 n.): >16): >16 ogy indicators observed s Mottle / 2nd Mottle Color	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F Abundance	er marks lines ment deposits nage patterns in wetlands nomy: NA ield Observations match <u>Contrast</u>	s map Texture, <u>Structure, etc.</u> Silt Loam Silty Clay Loam	[] Local s [] FAC-N [] Other (soil surve; leutral tes (explain ir	y data tt n remarks)		
[] Ae [] Ot Field Observ Depth Depth Remarks There were Soils Unit Name: Dr Drainage Clas Depth Hor. (in.) 0-16 16-20 Hydric Soils	erial Photograph ther (describe in remain vations: n of Surface Water(in.) n to Free Water in Pit(ii n to Saturated Soils(in. e no wetland hydrolc bodge and Kidder soil ss: well Matrix Color 10YR 2/2 10YR 4/4 Indicators	rks) : 0 n.): >16): >16 ogy indicators observed s <u>Mottle / 2nd Mottle</u> <u>Color</u>	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F Abundance	er marks lines ment deposits hage patterns in wetlands nomy: NA ield Observations match <u>Contrast</u>	s map Texture, <u>Structure, etc.</u> Silt Loam Silty Clay Loam	[] Local s [] FAC-N [] Other (soil surve; leutral tes (explain ir	y data it n remarks)		
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[] Ae [] Ot Field Observ Depth Depth Remarks There were Soils Unit Name: D Drainage Clas Depth Hor. (in.) 0-16 16-20 Hydric Soils [] Histos [] Histos	erial Photograph ther (describe in remain vations: n of Surface Water(in.) n to Free Water in Pit(in n to Saturated Soils(in. e no wetland hydrolo bodge and Kidder soil ss: well Matrix Color 10YR 2/2 10YR 2/2 10YR 4/4 Indicators sol c Epipedon	rks) : 0 n.): >16): >16 bgy indicators observed s <u>Mottle / 2nd Mottle</u> <u>Color</u>	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F Abundance	r marks lines ment deposits nage patterns in wetlands nomy: NA ield Observations match Contrast [] Concretions [] High Organic % in	s map Texture, Structure, etc. Silt Loam Silty Clay Loam Surface Layer in Sandu Saita	[] Local s [] FAC-N [] Other (soil surve leutral tes (explain ir	y data it n remarks)		
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[] Ae [] Ot Field Observ Depth Depth Remarks There were Soils Unit Name: D Drainage Clas Depth Hor. (in.) 0-16 16-20 Hydric Soils [] Histos [] Histos [] Sulfid [] Proba	erial Photograph ther (describe in remain vations: In of Surface Water(in.) In to Free Water in Pit(in In to Saturated Soils(in. In to Saturated Soi	rks) : 0 n.): >16): >16 bgy indicators observed s <u>Mottle / 2nd Mottle</u> <u>Color</u>	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F Abundance	r marks lines ment deposits nage patterns in wetlands nomy: NA ield Observations match Contrast	s map Texture, Structure, etc. Silt Loam Silty Clay Loam Surface Layer in S in Sandy Soils dric Soils List	[] Local s [] FAC-N [] Other (soil survey leutral tes (explain ir	y data t n remarks)		
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[] Ae [] Ot Field Observ Depth Depth Remarks There were Soils Unit Name: Dr Drainage Clas Depth Hor. (in.) 0-16 16-20 <i>Hydric Soils</i> [] Histos []	erial Photograph ther (describe in remain vations: n of Surface Water(in.) n to Free Water in Pit(ii n to Saturated Soils(in. e no wetland hydrolo bodge and Kidder soil ss: well Matrix Color 10YR 2/2 10YR 4/4 <i>Indicators</i> sol Epipedon dic Odor able Aquatic Moist Reg log Conditions ed or Low-Chroma Col e no hydric soil indic etermination	rks) i 0 h.): >16 igy indicators obsects models <u>Mottle / 2nd Mottle</u> Color / gime ors ators observed.	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F Abundance	r marks lines ment deposits hage patterns in wetlands nomy: NA ield Observations match Contrast [] Concretions [] High Organic % in [] Organic Streaking i [] Listed on Local Hyd [] Listed on National I [] Other (explain in re	s Texture, Structure, etc. Silt Loam Silty Clay Loam Surface Layer in S in Sandy Soils dric Soils List Hydric Soils List emarks)	[] Local s [] FAC-N [] Other (soil surve; leutral tes (explain ir	y data it n remarks)		
[] Ae [] Ot Field Observ Depth Depth Remarks There were Soils Unit Name: Dr Drainage Clas Depth Hor. (in.) 0-16 16-20 <i>Hydric Soils</i> [] Histos [] Nobel Medure [] Redure [] Gleyee Remarks There were Nol Hydroof	erial Photograph ther (describe in remain vations: nof Surface Water(in.) nof Surface Water in Pit(ii no Saturated Soils(in. en owetland hydrolc sole and Kidder soil ss: well Matrix Color 10YR 2/2 10YR 4/4 <i>Indicators</i> sol Epipedon dic Odor able Aquatic Moist Reguer ing Conditions ed or Low-Chroma Col en ohydric soil indic etermination hytic Vegetation Prese	rks) : 0 n.): >16): >16 ogy indicators obsects s <u>Mottle / 2nd Mottle</u> Color / gime ors ators observed. nt	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F Abundance	r marks lines ment deposits hage patterns in wetlands nomy: NA ield Observations match Contrast [] Concretions [] High Organic % in [] Organic Streaking i [] Listed on Local Hyd [] Listed on National I [] Other (explain in re [] No] This Data Point is	s map Texture, Structure, etc. Silt Loam Silty Clay Loam Surface Layer in S in Sandy Soils dric Soils List Hydric Soils List marks) a Wetland	[] Local s [] FAC-N [] Other (soil surve; leutral tes (explain ir	y data it n remarks)		
[] Ae [] Ot Field Observ Depth Depth Depth Remarks There were Soils Unit Name: Dr Drainage Clas Depth Hor. (in.) 0-16 16-20 Hydric Soils [] Histos [] Histos [] Histos [] Histos [] Sulfid [] Proba [] Reduc [] Gleye Remarks There were Netland De [No] Hydroph	erial Photograph ther (describe in remain vations: n of Surface Water(in.) n to Free Water in Pit(in to Saturated Soils(in.) e no wetland hydrolo bodge and Kidder soil s: well Matrix Color 10YR 2/2 10YR 4/4 <i>Indicators</i> sol Epipedon dic Odor able Aquatic Moist Reg icing Conditions ed or Low-Chroma Col e no hydric soil indice etermination hytic Vegetation Prese Soils Present	rks) i 0 h.): >16 igy indicators obsects gy indicators obsects <u>Mottle / 2nd Mottle</u> Color // gime ors ators observed. nt	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F Abundance	r marks lines ment deposits lage patterns in wetlands nomy: NA ield Observations match Contrast [] Concretions [] High Organic % in - [] Organic Streaking i [] Listed on Local Hyd [] Listed on National I [] Other (explain in re [] No] This Data Point is	s map Texture, Structure, etc. Silt Loam Silty Clay Loam Surface Layer in S in Sandy Soils dric Soils List Hydric Soils List marks) a Wetland	[] Local s [] FAC-N [] Other (soil surve; leutral tes (explain ir	y data it n remarks)		
[] Ae [] Ot Field Observ Depth Depth Depth Remarks There were Soils Unit Name: D Drainage Clas Depth Hor. (in.) 0-16 16-20 Hydric Soils [] Histos [] Nolfid [] Nolfid [] Histos [] Histos [] Histos [] Histos [] Nolfid [] Histos []	erial Photograph ther (describe in remain vations: n of Surface Water (in.) n to Free Water in Pit(in n to Saturated Soils(in. e no wetland hydrolo bodge and Kidder soil s: well Matrix Color 10YR 2/2 10YR 4/4 <i>Indicators</i> sol c Epipedon dic Odor able Aquatic Moist Reg icing Conditions ed or Low-Chroma Col e no hydric soil indic e termination hytic Vegetation Prese Soils Present	rks) : 0 n.): >16): >16 bgy indicators obsections s <u>Mottle / 2nd Mottle</u> Color / gime ors ators observed. nt	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F Abundance	r marks lines ment deposits nage patterns in wetlands nomy: NA ield Observations match <u>Contrast</u> [] Concretions [] High Organic % in - [] Organic Streaking i [] Listed on Local Hyc [] Listed on National I [] Other (explain in re	s map Texture, <u>Structure, etc.</u> Silt Loam Silty Clay Loam Surface Layer in S in Sandy Soils dric Soils List Hydric Soils List emarks) a Wetland	[] Local s [] FAC-N [] Other (soil surve; leutral tes (explain ir	y data it n remarks)		
[] Ae [] Ot Field Observ Depth Depth Remarks There were Soils Unit Name: D Drainage Clas Depth Hor. (in.) 0-16 16-20 <i>Hydric Soils</i> [] Histos [] Histos [] Histos [] Histos [] Sulfid [] Proba [] Reduc [] Gleye Remarks There were Netland De [No] Hydroph [No] Hydroph [No] Hydroph [No] Hydroph	erial Photograph ther (describe in remain vations: In of Surface Water (in.) In to Free Water in Pit(in In to Saturated Soils(in. In the Saturated Soil Indice In the Saturated Soils Present In the Saturated Saturated Soils Present In the Saturated Satur	rks) = 0 h.): >16 pgy indicators obsections s Mottle / 2nd Mottle Color / gime ors ators observed. nt	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F Abundance	r marks lines ment deposits nage patterns in wetlands nomy: NA ield Observations match Contrast	s map Texture, Structure, etc. Silt Loam Silty Clay Loam Surface Layer in S in Sandy Soils dric Soils List Hydric Soils List emarks) a Wetland	[] Local s [] FAC-N [] Other (soil survey leutral tes (explain ir	y data it n remarks)		
[] Ae [] Ot Field Observ Depth Depth Depth Remarks There were Soils Unit Name: D Drainage Clas Depth Hor. (in.) 0-16 16-20 Hydric Soils [] Histos [] Histos [] Histos [] Histos [] Sulfid [] Proba [] Sulfid [] Proba [] Gleye Remarks There were Netland De [No] Hydroph [No] Hydroph [erial Photograph ther (describe in remain vations: In of Surface Water(in.) In to Free Water in Pit(in In to Saturated Soils(in.) In the saturated Soils Present In thy or Saturated Soils Present In the saturated Soils Present	rks) = 0 h.): >16 pgy indicators obsects s Mottle / 2nd Mottle Color / gime ors ators observed. nt	[] Wate [] Drift I [] Sedir [] Drain erved. Taxo [] F Abundance	r marks lines ment deposits hage patterns in wetlands nomy: NA ield Observations match Contrast [] Concretions [] High Organic % in [] Organic Streaking i [] Listed on Local Hyt [] Listed on National I [] Other (explain in re [] No] This Data Point is	s map Texture, Structure, etc. Silt Loam Silty Clay Loam Surface Layer in S in Sandy Soils dric Soils List Hydric Soils List Hydric Soils List emarks)	[] Local s [] FAC-N [] Other (soil survey leutral tes (explain ir	y data it n remarks)		



Natural Reso	ources Consulting, Inc.				Job Nu	mber: 009-0265-	01	
Data Fo	orm				Town/V	/illage/City: Vero	ona	
Routin	e Wetland Deter	rmination			Wetlan	d Data Point: P-0)9	
Project/Si	te: Liberty Business	Park			Date:	November 03. 2	2009	
Applicant/	Owner [.]				Count	tv [.] Dane		
Investigat	or: Jeff Kraemer				State	· WI		
		ovict on the site?			Comr	nunity ID: Unland	4	
	oito oignificantly distu	rhad (Atunical Situation	n)2		Statio		u	
[No] is the	area a notential probl	em area?)))?		Plot			
Vegetati	on				FIUL	ID. F-03		
Dominan	t Snecies		Comm	on Name / CofC		%	Cover	Indicator
Herbaced			Comm			,,		maloutor
Included	ARCTIUM MINU	S	comm	on burdock		5		UPL
	TARAXACUM O	FFICINALE	comm	on dandelion		2		FACU
	CHENOPODIUN	I ALBUM	lamb's	-quarters		5		FAC-
	ABUTILON THE	OPHRASTI	Piema	rker		2		FACU-
Χ	SETARIA ITALIO	CA	foxtail	millet		70)	FACU
% Species	s that are OBL, FACW	, or FAC (except FAC	i-): 0		NOTE: Species	in capital letters of	denote no	on-native species
Remarks	5							
The ve	getation was not do	minated by hydropl	nytic species.					
Hydrolo	ду		Primary Wetlar	nd Hydrology Indi	cators	Secondary Hy	drology l	ndicators
[]Reco	orded Data (describe i	n remarks)	[] Inundate	ed		[] Oxidize	ed root ch	annels
1] Stream, Lake, or Tic	le Gage	[] Saturate	ed in upper 12 ind	ches	[] Water-	stained le	eaves
1	Aerial Photograph	Ū	[]Watern	narks		[]Locals	oil surve	v data
ſ	1 Other (describe in re	emarks)	[] Drift line	29		[]FAC-N	eutral tes	st .
L		, indirite)		nt denosits		[]()ther(remarke)
Field Ob	servations:			a pattorna in wat	anda			riemarks)
D	epth of Surface Water	(in.): 0		e patterns in wet	anus			
D	epth to Free Water in	Pit(in.): > 36						
D	epth to Saturated Soil	s(in.): >36						
Pomarke	-							
There v	vere no wetland hyd	rology indicators o	bserved.					
Soils								
Unit Name	e: McHenry silt loam		Taxonoi	my: Typic Haplu	udalfs			
Drainage	Class: well		[] Field	d Observations m	atch map			
Depth	Hor. Matrix	Mottle / 2nd Mo	ttle		Texture,			
<u>(in.)</u>	Color	Color	Abundance	Contrast	Structure, e	tc.		
0-32	10YR 2/2				Silt Loam			
32-34	10YR 3/2				Silt Loam			
34-36	10YR 4/3	10YR 4/6	common	distinct	Silt Loam 2	% gravel		
Hydric S	Soils Indicators							
[]⊢	listosol		[] Concretions				
[]+	listic Epipedon		1] High Organic %	% in Surface Lav	er in Sandy Soils		
[]5	Sulfidic Odor		ſ] Organic Streak	king in Sandv So	ils		
[]E	Probable Aquatic Moist	Regime	ſ	11 isted on Loca	Hvdric Soils Lis	st		
[]] []]	Peducing Conditions		L r] Listed on Natio	nal Hydric Soile	Liet		
[][Sleved or Low_Chroma	Colors	l r	1 Other (evolution	in remarke)	LIJI		
Demostrice 19		001013	L		in remarks)			
Remarks	5							
National	Dotormination							
vetiand	Determination							

[No] Hydrophytic Vegetation Present

[No] Hydric Soils Present

[No] Wetland Hydrology Present

Remarks

This point is in an upland draw in a soybean field.

[No] This Data Point is a Wetland



Natural Resources	Consulting, Inc.	Job	Number: 009-0265-01				
Data Forn	n	Tow	Town/Village/City: Verona				
Routine W	Vetland Determination	We	Wetland Data Point: P-10				
Project/Site: I	Liberty Business Park	Di	ate: November 03, 2009				
Applicant/Owr	ner:	C	bunty: Dane				
Investigator:	Jeff Kraemer	St	ate: WI				
[Yes] Do norm	nal circumstances exist on the site?	Ci	ommunity ID: Upland				
[No] Is the site	e significantly disturbed (Atypical Situation	ר)? St	ation ID:				
[No] Is the are	a a potential problem area?	P	ot ID: P-10				
Vegetation							
Dominant	Species	Common Name / CofC	% Cover Indicator				
<u>Herbaceous</u>							
×	ABUTILON THEOPHRASTI	Piemarker	2 FACU-				
% Species that	at are OBL, FACW, or FAC (except FAC-): 0 NOTE: Spec	ies in capital letters denote non-native speci				
Remarks	······ ··· · ··· · · · · · · · · · · ·						
There were	e no hydrophytic species observed a	t this point.					
Hydrology		Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators				
[] Recorde	d Data (describe in remarks)	[] Inundated	[] Oxidized root channels				
[]S	tream, Lake, or Tide Gage	[] Saturated in upper 12 inches	[] Water-stained leaves				
[]A	erial Photograph	[] Water marks	[] Local soil survey data				
[]0	ther (describe in remarks)	[] Drift lines	[] FAC-Neutral test				
Field Oberen		[] Sediment deposits	[] Other (explain in remarks)				
Field Obser	ations:	[] Drainage patterns in wetlands					
Deptr							
Deptr	to Free Water in Pit(in.): >20						
Depti	i to Saturated Solis(III.). >20						
Remarks							
There were	e no wetland hydrology indicators ob	served.					
Soils							
Unit Name: T	roxel silt loam	Taxonomy: Pachic Argiudolls					
Drainage Clas	ss: Moderately Well Drained	[] Field Observations match map					
Depth Hor.	Matrix Mottle / 2nd Mott	tle Texture	4-				
(IN.)	Color Color	Abundance Contrast Structur	e, etc.				
16-20	10YR 4/4	Silt Loai Silt Loai	n				
Hudria Saila	Indiactora						
1 Histo	eol						
[]Histo	Eninedon	[] High Organic % in Surface	l aver in Sandy Soils				
[] I IISUC	lic Odor	[] Organic Streaking in Sandy					
[] Proh	able Aquatic Moist Regime	[] Listed on Local Hydric Soils					
[]Redu		[] Listed on National Hydric S	nile List				
[] Gleve	ed or Low-Chroma Colors	[] Other (explain in remarks)					
Bemerke							
Remarks							
Wetland De	etermination						
De							

[No] Hydrophytic Vegetation Present [No] Hydric Soils Present [No] Wetland Hydrology Present Remarks This point is at a low spot in a soybean field. Wetland indicators were not observed.

[No] This Data Point is a Wetland



Natural Resource	es Consulting, Inc. De P				Job Numb	er: 009-0265-01	
Data For	m				Town/Villa	ge/City: Verona	
Routine \	Wetland Deter	mination			Wetland D	ata Point: P-11	
Project/Site:	Liberty Business	Dark			Date: N	wember 03, 2009	
Applicant/Ow	uner.	ark			County:	Dano	
Investigator:	loff Kraamar				State: M	Dane //	
		vist on the site?			Sidle. W	nity ID: Wotland 3	
	to significantly distu	chod (Atunical Situation)	2		Station II	וונא וש. איפנומווע 5 ר.	
		med (Alypical Siluation)	i.		Diat ID:	J.	
					PIOT ID:	P-11	
vegetation] Succion		C			% Cover	Indiantar
Horbacoous	Species			ommon Name / Corc	,	% Cover	indicator
Herbaceous	ABUTILON THE	OPHRASTI	Pi	emarker		2	FACU-
х	Panicum dichoto	miflorum	kn	iee grass / 0		90	FACW-
% Species th	nat are OBL, FACW,	or FAC (except FAC-):	100	<u> </u>	NOTE: Species in c	apital letters denote no	n-native species.
Remarks							
The veget	tation at this point	was dominated by h	ydrophytic	c species.			
Hydrology	/		Primarv W	etland Hvdrologv Inc	licators	Secondarv Hvdrologv I	ndicators
[X] Record	ed Data (describe in	remarks)	[] Inu	ndated		[] Oxidized root ch	annels
[1]	Stream Lake or Tid	e Gage	[]	urated in upper 12 in	ches	[] Water-stained le	aves
[X]	Aerial Photograph		[] Wa	ter marks		[] Local soil survey	/ data
[]]	Other (describe in re	emarks)	[].1.	t lines		[X] FAC-Neutral tes	t
			[]Sec	liment deposits		[X] Other (explain in	remarks)
Field Obse	rvations:		[] Dra	inage patterns in we	tlands		(including)
Dep	th of Surface Water	(in.): 0	[]]]	inage patiente in we	lando		
Dep	th to Free Water in I	Pit(in.): >20					
Dep	th to Saturated Soils	s(in.): 14					
D							
Remarks	lanraasian in an a	arigultural field Apri	al abataa	abow watland aign	aturaa aanaiatant	with the wetland	
location a	nd extent identifie	d in the field	ai priotos	show wettantu siyi			
SOIIS	St. Charles silt lear	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Тоу		ludalfa		
Drainage Cla		 4aa	147	Citatel Observations of			
Drainage Cia	ass: moderately we		IJ	Field Observations r	natch map		
Depth Ho	r. Matrix	Mottle / 2nd Mottle	<u>}</u>	Contract	l exture,		
(In.)		Color	Abundance	Contrast	Silt Loam		
0.14	1011C 3/2		commor	distinct	Silt Loam		
9-14 14-20	2 57 1/2	2 57 5/6	commor	n distinct	Silt Loam		
14-20	2.31 4/2	2.31 3/0	commo	i distilict	Silt Loan		
Hydric Soil	s Indicators						
[] Hist	osol			[] Concretions			
[] Hist	ic Epipedon			[] High Organic	% in Surface Layer i	n Sandy Soils	
[] Sulf	idic Odor			[] Organic Strea	king in Sandy Soils		
[] Prot	bable Aquatic Moist	Regime		[] Listed on Loca	al Hydric Soils List		
[] Red	lucing Conditions			[] Listed on Nati	ional Hydric Soils Lis	t	
[X] Gley	yed or Low-Chroma	Colors		[] Other (explair	n in remarks)		
Remarks							
F6. Redo	x Dark Surface.						
Wetland D	etermination						
Neci line		recent		Meel This Date D	oint is a Matterd		
[Yes] Hydro	oprivite vegetation F	resent		[Yes] This Data P	oint is a wetland		
[Yes] Hydri	c Solls Present						
[Yes] Wetla	and Hydrology Prese	ent					
Remarks							

Remarks This area was a depression in a farm field that was not farmed this year.



Data E					Job Numbe	er: 009-0265-01	
Data F	orm				Town/Villag	ge/City: Verona	
Routine Wetland Determination				Wetland Data Point: P-12			
Proiect/S	ite: Liberty Business P	ark			Date: No	ovember 06. 2009	
Applicant	/Owner:				County:	Dane	
Investiga	tor: Jeff Kraemer				State: W	1	
[Yes] Do	normal circumstances e	xist on the site?			Commun	ity ID: Upland	
[No] Is th	e site significantly distur	bed (Atypical Situa	tion)?		Station ID););	
[No] Is th	e area a potential proble	m area?			Plot ID:	P-12	
Vegetat	ion						
Dominar	nt Species		Con	nmon Name / CofC		% Cover	Indicator
Herbace	ous						
Х	GLYCINE MAX		soyt	bean		80	[UPL]
% Specie	es that are OBL, FACW,	or FAC (except FA	.C-): 0		NOTE: Species in c	apital letters denote no	n-native species.
Remark	s						
There	was no apparent crop	damage at this	point.				
Hydrold	ogy		Primarv Wet	land Hydrology Ind	icators	Secondary Hydrology I	ndicators
[] Rec	corded Data (describe in	remarks)	[] Inund	ated	····· ·	[] Oxidized root ch	annels
[1 Stream, Lake, or Tide	e Gage	[]Satur	ated in upper 12 inc	ches	[] Water-stained le	aves
۔ ۲	Aerial Photograph	9-	[] Wate	r marks		[] Local soil survey	/ data
۔ ۱	1 Other (describe in rer	marks)	[]Drift li	nes		[] FAC-Neutral tes	t
L		······)	[]Sedin	nent deposits		[] Other (explain in	remarks)
Field O	bservations:		[] Drain	age patterns in wet	lands	1 1 1 1 1 1 1 1 1 1	,
[Depth of Surface Water(i	n.): 0		5-1			
[Depth to Free Water in P	?it(in.): >27					
[Depth to Saturated Soils	(in.): > 27					
Remark	S						
No ind	icators of wetland hyd	Irology were obs	erved at this po	int.			
Soils							
Unit Nam	ne: Troxel silt loam		Taxor	nomy: Pachic Arg	iudolls		
Drainage	Class: moderately wel	I	[] Fi	eld Observations m	natch map		
Depth	Hor. Matrix	Mottle / 2nd N	lottle		Texture,		
(in.)	Color	Color	Abundance	Contrast	Structure, etc.		
0-13	10YR 3/3		r	.	Silt Loam		
13-15	10YR 3/3	10YR 4/3	tew	taint	Silt Loam		
15-22	10YR 3/2	101 K 5/6	common	distinct	Slit Loam		
22-21	2.01 0/2	2.01 0/0	ICW	uistiilitt	Ciay Ludill		
Hydric	Soils Indicators						
[]	Histosol			[] Concretions			
[]	Histic Epipedon			[] High Organic	% in Surface Layer in	n Sandy Soils	
[] Sulfidic Odor			[] Organic Streal	king in Sandy Soils			
[]	Probable Aquatic Moist F	Regime		[] Listed on Loca	al Hydric Soils List		
[]	Reducing Conditions			[] Listed on Natio	onal Hydric Soils List	t	
[]	Gleyed or Low-Chroma	Colors		[] Other (explain	in remarks)		
Remark	s						
Wetland	Determination						
		sent		[No] This Data Do	int is a Wetland		
[HO] Hy	arophytic vegetation Fit						

[No] Hydric Soils Present [No] Wetland Hydrology Present

Remarks

This area is a depression in a soybean field.



Natural Resources Consulting, Inc.				Job Number: 009-	0265-01	
Data Form				Town/Village/City:	Verona	
Routine Wetland Determin		Wetland Data Point: P-13				
Project/Site: Liberty Business Park				Date: November	06, 2009	
Applicant/Owner:				County: Dane		
Investigator: Jeff Kraemer				State: WI		
[Yes] Do normal circumstances exist of	on the site?			Community ID: L	Jpland	
[No] Is the site significantly disturbed (Atypical Situation)?			Station ID:		
[No] Is the area a potential problem ar	ea?			Plot ID: P-13		
Vegetation						
Dominant Species		Com	mon Name / CofC		% Cover	Indicator
X GLYCINE MAX		soybe	ean		80	[UPL]
% Species that are OBL, FACW, or FA	AC (except FAC-): 0	1	Ν	IOTE: Species in capital let	tters denote no	n-native species
Remarks						
This point is in a soybean field w	where there is no a	pparent cr	op damage.			
łydrology	P	rimary Wetla	and Hydrology Indic	ators Seconda	nry Hydrology li	ndicators
[] Recorded Data (describe in rema	arks)	[] Inunda	ited	[]0	xidized root ch	annels
[] Stream, Lake, or Tide Gag	ge	[] Satura	ted in upper 12 inch	nes []W	/ater-stained le	aves
[] Aerial Photograph		[] Water	marks	[]Lo	ocal soil survey	/ data
[] Other (describe in remark	s)	[] Drift lin	nes	[]F.	AC-Neutral tes	t
Field Observations:		[] Sedime	ent deposits	[]0	ther (explain in	remarks)
Pielo Observations.	0	[] Draina	ge patterns in wetla	nds		
Depth to Erco Water in Bit/in.).	U)· >20					
Depth to Saturated Soils(in):	>30					
Remarks						
I here were no indicators of weth	and hydrology obs	served at tr	his point.			
DOIIS		Taxon	omv: Pachic Argiu	Idolle		
Drainage Class: Mederately Well Dr	ainad		Id Observations ma			
Death Her Matrix	Mottle / Ond Mottle	[] FIE		Toxture		
(in) Color		undance	Contrast	Texture, Structure etc		
0-15 10YR 3/3			Contract	Silt Loam		
15-20 10YR 3/2	10YR 5/6	common	distinct	Silt Loam		
20-26 10YR 3/2	10YR 5/6	common	distinct	Silt Loam		
	10YR 4/2	common	distinct			
26-30 10YR 2/1	10YR 5/6					
	10111 0/0	common	faint	Silt Loam mottles of 10	YR 3/2 silt loan	n
Hydric Soils Indicators		common	faint	Silt Loam mottles of 10	YR 3/2 silt loan	1
Hydric Soils Indicators [] Histosol		common	faint	Silt Loam mottles of 10	YR 3/2 silt loan	n
Hydric Soils Indicators [] Histosol [] Histic Epipedon		common	I Concretions I High Organic %	Silt Loam mottles of 10 in Surface Layer in Sandy	YR 3/2 silt loan Soils	<u>n</u>
Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor		common	I Concretions I High Organic % I Organic Streaki	Silt Loam mottles of 10 in Surface Layer in Sandy ng in Sandy Soils	YR 3/2 silt loan Soils	n
Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regir	ne	common	Taint] Concretions [] High Organic % [] Organic Streakii [] Listed on Local	Silt Loam mottles of 10 in Surface Layer in Sandy ng in Sandy Soils Hydric Soils List	YR 3/2 silt loan Soils	<u>1</u>
Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regin [] Reducing Conditions	ne	common	Taint I Concretions I High Organic % Organic Streaki Listed on Local J Listed on Natior	Silt Loam mottles of 10 in Surface Layer in Sandy ng in Sandy Soils Hydric Soils List nal Hydric Soils List	YR 3/2 silt loan Soils	<u>1</u>
Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regir [] Reducing Conditions [] Gleyed or Low-Chroma Color	ne	common	Taint [] Concretions [] High Organic % [] Organic Streaki [] Listed on Local [] Listed on Natior [] Other (explain in	Silt Loam mottles of 10 in Surface Layer in Sandy ng in Sandy Soils Hydric Soils List nal Hydric Soils List n remarks)	YR 3/2 silt loan Soils	<u>1</u>
Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regir [] Reducing Conditions [] Gleyed or Low-Chroma Color Remarks	ne	common	Taint [] Concretions [] High Organic % [] Organic Streaki [] Listed on Local [] Listed on Natior [] Other (explain in	Silt Loam mottles of 10 in Surface Layer in Sandy ng in Sandy Soils Hydric Soils List nal Hydric Soils List n remarks)	YR 3/2 silt loan Soils	<u>1</u>
Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regir [] Reducing Conditions [] Gleyed or Low-Chroma Color Remarks	ne 'S	common	Taint [] Concretions [] High Organic % [] Organic Streaki [] Listed on Local [] Listed on Natior [] Other (explain in	Silt Loam mottles of 10 in Surface Layer in Sandy ng in Sandy Soils Hydric Soils List nal Hydric Soils List n remarks)	YR 3/2 silt loan	<u>1</u>

[No] Hydric Soils Present [No] Wetland Hydrology Present

Remarks

This point is in a depression in a soybean field. There was no apparent crop damage.



				Job Numb	er: 009-0265-01		
Data Form		Town/Village/City: Verona					
Routine Wetland Determination				Wetland Data Point: P-14			
Project/Site: Liberty Business Park	c			Date: N	ovember 06, 2009		
Applicant/Owner:				County:	Dane		
Investigator: Jeff Kraemer				State: V	VI		
[Yes] Do normal circumstances exist	t on the site?			Commu	nity ID: Upland		
[No] Is the site significantly disturbed	d (Atypical Situation	on)?		Station	D:		
[No] Is the area a potential problem a	area?			Plot ID	: P-14		
Vegetation							
Dominant Species		Comm	non Name / CofC	;	% Cover	Indicator	
Herbaceous X GLYCINE MAX		soybe	an		80	[UPL]	
% Species that are OBL, FACW, or I	FAC (except FAC	:-): 0		NOTE: Species in	capital letters denote ne	on-native species	
Remarks							
This point is in a soybean field	with no appare	nt crop damage	in this location	۱.			
Hydrology		Primary Wetla	nd Hydrology Ind	licators	Secondary Hydrology	Indicators	
[] Recorded Data (describe in rer	marks)	[] Inundat	ed		[] Oxidized root cl	nannels	
[] Stream, Lake, or Tide G	age	[] Saturated in upper 12 inches			[] Water-stained leaves		
[] Aerial Photograph		[] Water n	narks		[] Local soil surve	y data	
[] Other (describe in remar	rks)	[] Drift lines			[] FAC-Neutral test		
Field Observations:		[] Sediment deposits [] Other (explain in r			n remarks)		
	[] Drainage patterns in wetlands						
Depth of Surface Water(in):	· n	[] Drainag	e patterns in we	tlands			
Depth of Surface Water in Pit/ir	:0 n):>23	[] Drainag	e patterns in we	tlands			
Depth of Surface Water(in.): Depth to Free Water in Pit(ir Depth to Saturated Soils(in.)	: 0 n.): >23): >23	[] Drainag	e patterns in we	tlands			
Depth of Surface Water(in.): Depth to Free Water in Pit(ir Depth to Saturated Soils(in.)	: 0 n.): >23): >23	[] Drainag	e patterns in we	tlands			
Depth of Surface Water(in.): Depth to Free Water in Pit(ir Depth to Saturated Soils(in.) Remarks	: 0 n.): >23): >23	[] Drainag	e patterns in we	tlands			
Depth of Surface Water(in.): Depth to Free Water in Pit(in Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo	: 0 n.): >23): >23 ogy indicators o	[] Drainag	patterns in we	tlands			
Depth of Surface Water(in.): Depth to Free Water in Pit(in Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo Soils	: 0 n.): >23): >23 ogy indicators of	[] Drainag	point.	udalfs			
Depth of Surface Water(in.): Depth to Free Water in Pit(ir Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt Ioam Dranage Class: medicately well to	: 0 n.): >23): >23 ogy indicators o	[] Drainag bserved at this p Taxono	point.	udalfs			
Depth of Surface Water(in.): Depth to Free Water in Pit(ir Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt Ioam Drainage Class: moderately well to Depth Hor Matrix	: 0 n.): >23): >23 ogy indicators of owell	[] Drainag bserved at this p Taxono [] Fiel	potterns in wei point. my: Typic Hapi d Observations n	udalfs natch map			
Depth of Surface Water(in.): Depth to Free Water in Pit(ir Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt Ioam Drainage Class: moderately well to Depth Hor. Matrix (in.) Color	: 0 n.): >23): >23 ogy indicators of well <u>Mottle / 2nd Mo</u> Color	[] Drainag bserved at this p Taxono [] Fiel Abundance	potterns in wei point. my: Typic Hapi d Observations n	udalfs natch map Texture, Structure, etc.			
Depth of Surface Water(in.): Depth to Free Water in Pit(ii Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt loam Drainage Class: moderately well to Depth Hor. Matrix (in.) 0-16 10YR 3/3	: 0 n.): >23): >23 ogy indicators of well <u>Mottle / 2nd Mo</u> Color	[] Drainag bserved at this p Taxono [] Fiel ttle Abundance	potterns in wet point. my: Typic Hapi d Observations n <u>Contrast</u>	udalfs natch map Texture, Structure, etc. Silt Loam			
Depth of Surface Water(in.): Depth to Free Water in Pit(ii Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt loam Drainage Class: moderately well to Depth Hor. Matrix (in.) Color 0-16 10YR 3/3 16-19 10YR 3/2	: 0 n.): >23): >23 ogy indicators of well <u>Mottle / 2nd Mo</u> Color	[] Drainag bserved at this p Taxono [] Fiel ttle Abundance	point. Doint. My: Typic Hapi d Observations n <u>Contrast</u>	tlands udalfs natch map Texture, Structure, etc. Silt Loam Silt Loam			
Depth of Surface Water(in.): Depth to Free Water in Pit(ii Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt loam Drainage Class: moderately well to Depth Hor. Matrix (in.) Color 0-16 10YR 3/3 16-19 10YR 3/2 19-23 10YR 3/2	: 0 n.): >23): >23 ogy indicators of o well <u>Mottle / 2nd Mot Color</u> 10YR 4/4	[] Drainag bserved at this p Taxono [] Fiel ttle Abundance common	point. Doint. My: Typic Hapi d Observations n Contrast	tlands udalfs natch map Texture, Structure, etc. Silt Loam Silt Loam Silt Loam			
Depth of Surface Water(in.): Depth to Free Water in Pit(ii Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt Ioam Drainage Class: moderately well to Depth Hor. Matrix (in.) Color Depth Hor. Matrix (in.) Color 0-16 10YR 3/3 16-19 10YR 3/2 19-23 10YR 3/2 Hydric Soils Indicators	: 0 n.): >23): >23 ogy indicators of o well <u>Mottle / 2nd Mo</u> Color 10YR 4/4	[] Drainag bserved at this p Taxono [] Fiel ttle Abundance common	point. Doint. My: Typic Hapl d Observations n <u>Contrast</u> faint	udalfs natch map Texture, Structure, etc. Silt Loam Silt Loam Silt Loam			
Depth of Surface Water(in.): Depth to Free Water in Pit(ii Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt Ioam Drainage Class: moderately well to Depth Hor. Matrix (in.) Color 0-16 10YR 3/3 16-19 10YR 3/2 19-23 10YR 3/2 Hydric Soils Indicators [] Histosol	: 0 n.): >23): >23 ogy indicators of o well <u>Mottle / 2nd Mo</u> Color 10YR 4/4	[] Drainag bserved at this p Taxono [] Fiel ttle Abundance common	point. my: Typic Hapl d Observations n <u>Contrast</u> faint] Concretions	tlands udalfs natch map Texture, Structure, etc. Silt Loam Silt Loam Silt Loam			
Depth of Surface Water(in.): Depth to Free Water in Pit(ii Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt Ioam Drainage Class: moderately well to Depth Hor. Matrix (in.) Color 0-16 10YR 3/3 16-19 10YR 3/2 19-23 10YR 3/2 Hydric Soils Indicators [] Histosol [] Histosol [] Histic Epipedon	: 0 n.): >23): >23 ogy indicators of o well <u>Mottle / 2nd Mo</u> Color 10YR 4/4	[] Drainag bserved at this p Taxono [] Fiel ttle Abundance common	potterns in wei point. my: Typic Hapl d Observations n <u>Contrast</u> faint] Concretions] High Organic	udalfs natch map Texture, Structure, etc. Silt Loam Silt Loam Silt Loam	in Sandy Soils		
Depth of Surface Water(in.): Depth to Free Water in Pit(in Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt Ioam Drainage Class: moderately well to Depth Hor. Matrix (in.) Color 0-16 10YR 3/3 16-19 10YR 3/2 19-23 10YR 3/2 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor	: 0 n.): >23): >23 ogy indicators of o well <u>Mottle / 2nd Mc</u> Color 10YR 4/4	[] Drainag bserved at this p Taxono [] Fiel ttle Abundance common [[[potterns in wei point. my: Typic Hapl d Observations n <u>Contrast</u> faint] Concretions] High Organic] Organic Strea	udalfs natch map Texture, Structure, etc. Silt Loam Silt Loam Silt Loam Silt Loam	in Sandy Soils		
Depth of Surface Water(in.): Depth to Free Water in Pit(in Depth to Saturated Soils(in.) Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt Ioam Drainage Class: moderately well to Depth Hor. Matrix (in.) Color 0-16 10YR 3/3 16-19 10YR 3/2 19-23 10YR 3/2 <i>Hydric Soils Indicators</i> [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Reg	: 0 n.): >23): >23 ogy indicators of o well <u>Mottle / 2nd Mc</u> Color 10YR 4/4	[] Drainag bserved at this p Taxono [] Fiel ttle Abundance common [[[[[potterns in wei point. my: Typic Hapl d Observations n Contrast faint] Concretions] High Organic] Organic Strea] Listed on Loca	udalfs natch map Texture, Structure, etc. Silt Loam Silt Loam Silt Loam Silt Loam Min Surface Layer king in Sandy Soils al Hydric Soils List	in Sandy Soils		
Depth of Surface Water(in.): Depth to Free Water in Pit(in Depth to Saturated Soils(in. Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt Ioam Drainage Class: moderately well to Depth Hor. Matrix (in.) Color 0-16 10YR 3/3 16-19 10YR 3/2 19-23 10YR 3/2 Hydric Soils Indicators [] Histosol [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Reg [] Reducing Conditions	: 0 n.): >23): >23 ogy indicators of well <u>Mottle / 2nd Mo</u> Color 10YR 4/4	[] Drainag bserved at this p Taxono [] Fiel ttle Abundance common [[[[[[[[[[potterns in wei point. my: Typic Hapl d Observations n Contrast faint] Concretions] High Organic] Organic Strea] Listed on Loca] Listed on Nati	udalfs natch map Texture, Structure, etc. Silt Loam Silt Loam Silt Loam Silt Loam dilt Loam Silt Loam Silt Loam	in Sandy Soils		
Depth of Surface Water(in.): Depth to Free Water in Pit(in Depth to Saturated Soils(in. Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt Ioam Drainage Class: moderately well to Depth Hor. Matrix (in.) Color 0-16 10YR 3/3 16-19 10YR 3/2 19-23 10YR 3/2 <i>Hydric Soils Indicators</i> [] Histosol [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Reg [] Reducing Conditions [] Gleyed or Low-Chroma Colo	: 0 n.): >23): >23 ogy indicators of well <u>Mottle / 2nd Mo</u> Color 10YR 4/4	[] Drainag bserved at this p Taxono [] Fiel ttle Abundance common [[[[[[[[[[[potent. boint. my: Typic Hapl d Observations n Contrast faint] Concretions] High Organic] Organic Strea] Listed on Loca] Listed on Nati] Other (explain	udalfs natch map Texture, etc. Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam	in Sandy Soils		
Depth of Surface Water(in.): Depth to Free Water in Pit(ii Depth to Saturated Soils(in. Remarks There were no wetland hydrolo Soils Unit Name: St. Charles silt Ioam Drainage Class: moderately well to Depth Hor. Matrix (in.) Color 0-16 10YR 3/3 16-19 10YR 3/2 19-23 10YR 3/2 19-23 10YR 3/2 <i>Hydric Soils Indicators</i> [] Histosol [] Histosol [] Histosol [] Probable Aquatic Moist Reg [] Reducing Conditions [] Gleyed or Low-Chroma Colo	: 0 n.): >23): >23 ogy indicators of well <u>Mottle / 2nd Mo</u> Color 10YR 4/4	[] Drainag bserved at this p Taxono [] Fiel ttle Abundance common [[[[[[[[[[e patterns in wet boint. my: Typic Hapl d Observations n Contrast faint] Concretions] High Organic] Organic Strea] Listed on Loca] Listed on Nati] Other (explain	udalfs natch map Texture, etc. Silt Loam Silt Silt Silt Silt Silt Silt Silt Silt	in Sandy Soils		

[No] Hydrophytic Vegetation Present [No] Hydric Soils Present [No] Wetland Hydrology Present Remarks

[No] This Data Point is a Wetland

This data point is at the margin of a farmed wetland.



Natural Resources Co	nsulting, Inc. 2				Job Number	009-0265-01		
Data Form					Town/Village/City: Verona			
Routine Wetland Determination					Wetland Data Point: P-15			
Project/Site: Lik	perty Business P	Park			Date: Nov	vember 06, 2009		
Applicant/Owner	r:				County: D	ane		
Investigator: Je	ff Kraemer				State: WI			
[Yes] Do normal	circumstances e	exist on the site?			Communit	y ID: Upland		
[No] Is the site s	ignificantly distur	bed (Atypical Situa	tion)?		Station ID:			
[No] Is the area	a potential proble	em area?			Plot ID:	P-15		
Vegetation								
Dominant S	Species		Com	mon Name / CofC	•	% Cover	Indicator	
<u>Herbaceous</u> X (GLYCINE MAX		soyt	bean		80	[UPL]	
% Species that a	are OBL, FACW,	or FAC (except FA	.C-): 0		NOTE: Species in ca	pital letters denote n	on-native species	
Remarks This point is i	in a soybean fi	eld with no appar	rent crop damag	ge at this location	۱.			
Hydrology			Primary Wet	and Hydrology Ind	licators S	econdary Hydrology	Indicators	
[] Recorded I	Data (describe in	remarks)	[] Inund	ated		[] Oxidized root c	hannels	
[] Stre	am, Lake, or Tid	e Gage	[] Satura	ated in upper 12 in	ches	[] Water-stained I	eaves	
[] Aeri	al Photograph		[] Water	r marks		[] Local soil surve	ey data	
[] Othe	er (describe in re	marks)	[] Drift li	nes		[] FAC-Neutral test		
			[] Sediment deposits			[] Other (explain i	in remarks)	
Field Observat	ions:	in). •	[] Draina	age patterns in we	tlands			
Depth o	of Surface Water(in.): U						
Depth to	D Free Water In F	2it(in.): >25						
Depth to	5 Saturated Solis	s(III.). >25						
Remarks								
There were n	io indicators of	wetland hydrolog	gy observed at t	his point.				
Soils			_					
Unit Name: St.	Charles silt loan	n	Taxor	nomy: Typic Hapl	udalfs			
Drainage Class:	Moderately We	II Drained	[]Fi	eld Observations n	natch map			
Depth Hor.	Matrix	Mottle / 2nd N	1ottle	Cantract	Texture,			
(In.) 0-20	10VP 3/2	Color	Abundance	Contrast	Silt Loam			
20-25	10YR 3/2	10YR 4/4	common	distinct	Silt Loam			
20 20		10YR 4/2	common	faint				
Hvdric Soils In	dicators							
[] Histoso	1			[] Concretions				
[] Histic Epipedon			[] High Organic	% in Surface Laver in	Sandy Soils			
[] Sulfidic Odor			[] Organic Strea	king in Sandy Soils	,			
[]Probab	le Aquatic Moist	Regime		[]Listed on Loca	al Hydric Soils List			
[]Reduci	na Conditions			[] Listed on Nati	onal Hydric Soils List			
[]Gleved	or Low-Chroma	Colors		[] Other (explain	in remarks)			
Remarks					,			
. comuno								
Wetland Det	ermination							

[No] Hydrophytic Vegetation Present [No] Hydric Soils Present [No] Wetland Hydrology Present Remarks

[No] This Data Point is a Wetland

This point is on the margin of a farmed wetland, but is not wetland. There is no apparent crop damage here.



Natural Resources Consulting, Inc.		ob Number: 009-0265-01			
Data Form	T	own/Village/City: Verona			
Routine Wetland Determination	V	Wetland Data Point: P-16			
Project/Site: Liberty Business Park		Date: November 06, 2009			
Applicant/Owner:		County: Dane			
Investigator: Jeff Kraemer		State: WI			
[Yes] Do normal circumstances exist on the site?		Community ID: Upland			
[No] Is the site significantly disturbed (Atypical Situa	tion)?	Station ID:			
[No] Is the area a potential problem area?		Plot ID: P-16			
Vegetation					
Dominant Species	Common Name / CofC	% Cover Indicator			
Herbaceous X GLYCINE MAX	soybean	80 [UPL]			
% Species that are OBL, FACW, or FAC (except FA	C-): 0 NOTE: Sp	pecies in capital letters denote non-native species.			
Remarks					
This point is in a soybean field with no appar	ent crop damage.				
Hydrology	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators			
[] Recorded Data (describe in remarks)	[] Inundated	[] Oxidized root channels			
[] Stream, Lake, or Tide Gage	[] Saturated in upper 12 inches	[] Water-stained leaves			
[] Aerial Photograph	[] Water marks	[] Local soil survey data			
[] Other (describe in remarks)	[] Drift lines	[] FAC-Neutral test			
Field Observations:	[] Sediment deposits	[] Other (explain in remarks)			
Depth of Surface Water(in.): 0	[] Drainage patterns in wetlands				
Depth to Free Water in Pit(in.): >23					
Depth to Saturated Soils(in.): >23					
Remarks					
There were no indicators of wetland hydrolog	av observed here.				
Soils					
Unit Name: Troxel silt loam	Taxonomy: Pachic Argiudolls				
Drainage Class: moderately well	[] Field Observations match map				
Depth Hor. Matrix Mottle / 2nd N	lottle Textu	ıre,			
(in.) Color Color	Abundance Contrast Struc	ture, etc.			
0-13 10YR 3/2	Silt L	oam			
13-15 10YR 3/3	Silt L	oam			
15-23 10YR 2/1	Silt L	oam			
Hydric Soils Indicators					
[] Histosol	[] Concretions				
[] Histic Epipedon	[] High Organic % in Surfa	ce Layer in Sandy Soils			
[] Sulfidic Odor	[] Organic Streaking in Sar	ndy Soils			
[] Probable Aquatic Moist Regime	[] Listed on Local Hydric S	oils List			
[] Reducing Conditions	[] Listed on National Hydrid	c Soils List			
[] Gleyed or Low-Chroma Colors	[] Other (explain in remark	s)			
Remarks					
wetiand Determination					

[No] Hydrophytic Vegetation Present [No] Hydric Soils Present [No] Wetland Hydrology Present Remarks

[No] This Data Point is a Wetland

This point is at the margin of a farmed wetland. There was no apparent crop damage in the soybeans here.



Natural Resourc	es Consulting, Inc.				Job Nur	nber: 009-0265-01		
Data For	m				Town/Vi	illage/City: Verona		
Routine Wetland Determination					Wetland Data Point: P-17			
Project/Site:	Liberty Business I	Park			Date:	November 06, 2009		
Applicant/Ov	vner.	ain			Count	v. Dano		
Investigator:	loff Kraomor				State:	wi		
		aviet on the site?			Comm	white ID: Unland		
	to cignificantly distu	rhod (Atypical Situati	ion)2		Station			
[No] is the a	rea a notential probl	om area?	011)?		Blat	D: D 17		
Vocatatio					FIOLI	D. F-17		
Dominant	II Spacias		C	ommon Namo / Coff	-	% Cover	Indicator	
Herbaceous	Species				,	% COVE	indicator	
1101000000	BROMUS INERI	MIS	sr	mooth brome		15	UPL	
	Urtica dioica		st	inging nettle / 1		5	FAC+	
	Ambrosia trifida		gi	ant ragweed / 0		5	FAC+	
	SETARIA FABEI	RI	gi	ant foxtail		5	FACU+	
X Troo	ARCTIUM MINU	5	cc	ommon burdock		50	UPL	
X	Acer neaundo		bo	ox elder / 0		10	FACW-	
% Species th	hat are OBL, FACW	, or FAC (except FAC	C-): 50		NOTE: Species i	n capital letters denote n	on-native species.	
Remarks								
Not more	than 50% of the o	dominant species a	are hydrophy	/tic.				
Hydrology	/		Primary W	etland Hydrology Ind	dicators	Secondary Hydrology	Indicators	
[]Record	led Data (describe ir	remarks)	[] Inu	ndated		[] Oxidized root c	hannels	
	Stream Lake or Tic	le Gage	[].na	furated in upper 12 ir	iches	[] Water-stained I	eaves	
[]	Aprial Photograph	le Oage		tor marka	iches		v doto	
[]/	Aeriai Filologiapii Other (deserihe in re	marka	[]vva				ey uala	
[]	Other (describe in re	emarks)				[] FAC-Neutral test		
Field Obse	ervations:			[] Sediment deposits [] Other (explain in remarks)				
Dep	th of Surface Water	(in.): 0		ainage patterns in we	tianos			
Dep	th to Free Water in	Pit(in.): > 24						
Dep	th to Saturated Soils	s(in.): > 24						
Domoriko								
There we	re no indicators of	wetland hydrolog	v observed h	here				
Soile		wettand flydrolog	y observed i					
JUnit Name	Dodge silt loam		Тау	conomy. Typic Han	ludalfs			
Drainago Cl			гu) г 1	Field Observations	match man			
Drainage Cia	ass. weil			Field Observations i				
Depth Ho	r. Matrix	Mottle / 2nd Mo	ottle	Contract	l'exture,			
<u>(III.)</u> 0.17		000	Abunuance	Contrast	Siluciule, et			
0-17	101R 3/2	2 EV E/A	four	faint	Silt Loam			
17-19	2.51 5/3	2.51 5/4	Iew	laint	Silt Loan	am		
10-24	2.01 0/4				Gity Clay LU			
Hydric Soil	ls Indicators							
[] Hist	tosol			[] Concretions				
[] Hist	tic Epipedon			[] High Organic	% in Surface Laye	er in Sandy Soils		
[] Sulf	fidic Odor			[] Organic Strea	aking in Sandy Soi	ls		
[]Prol	bable Aquatic Moist	Regime		[] Listed on Loc	al Hydric Soils List	t		
[] Rec	lucing Conditions			[] Listed on Nat	ional Hydric Soils I	List		
[] Gle	yed or Low-Chroma	Colors		[] Other (explain	n in remarks)			
Remarks								
Wetland D	Determination							
[No] Hydro	phytic Vegetation P	resent		[No] This Data Po	pint is a Wetland			
[No] Hydric	Soils Present							

[No] Wetland Hydrology Present

Remarks

This area is a depression in a corn field. The farmer plants around this area of box elder trees.

APPENDIX B

SITE PHOTOGRAPHS



Photo 02. Portion of Wetland 1a/1b that is offsite, view near Sample Points P-02 and P-03.



Photo 03. Wetland 1b, view southeast towards property boundary, including Sample Point P-04.

Photo 04. Culvert near Wetland 2, near Sample Point P-08.

Photo 05. Wetland 2, view north-northeast from southern wetland boundary.

Photo 06. Soybean field, view east toward Sample Point P-09.

Photo 08. Soybean field, view south towards Sample Point 10.

Photo 09. Soybean field, view north toward Sample Point P-13.

Photo 10. Wetland 3, view north-northeast from near western wetland boundary.

Photo 11. Soybean field, view southwest from western boundary of Wetland 3.

Photo 12. Wetland 3, view west-southwest towards wetland boundary. Sample Point P-16 indicated by pink flagging.

Photo 14. View east along northern property boundary near Wetland 3.

Photo 16. Sample Point P-17, unfarmed pocket in farm field.

Photo 17. View north-northwest of farm field north of Whalen Road.

Photo 18. View northeast of farm field north of Whalen Road.

APPENDIX C

PREVIOUS REGULATORY DETERMINATIONS ON PROPERTY

119 South Main Street | PO Box 128 | Cottage Grove, Wisconsin 53527-0128 Ph: 608.839.1998 | Fax: 608.839.1995

www.nrc-inc.net

May 31, 2007

Mr. Andrew Stein Clark Street Development 980 North Michigan Aveune Suite 1280 Chicago, IL 60611

RE: Wetland Determination at the Verona Commercial Development Site in the Town of Verona, Dane County, Wisconsin.

Dear Mr. Stein:

Natural Resources Consulting (NRC) performed a wetland determination at the Verona Commercial Development Site, located to the east of U.S. Highways 18/151 and CTH PB, north of CTH M, and south of Whalen Road in the Town of Verona, Dane County, Wisconsin ("the Property"). A small portion of the Property is also located to the west of CTH PB. Specifically, the Property is located in the Southeast ¹/₄ of Section 23, Township 6 North, Range 8 East (Figure 1). Wetlands or areas that meet wetland criteria do not exist on the Property.

The objective of the wetland determination was to verify the extent and spatial arrangement of wetlands if they exist on the Property. Wetland determinations are made using the criteria and methods outlined in the U.S. Army Corps of Engineers (USACE) Manual (USACE 1987), subsequent guidance documents (USACE 1991, 1992), Guidelines for Submitting Wetland Delineations in Wisconsin to the St. Paul District Corps of Engineers (USACE 1996), and the Basic Guide to Wisconsin's Wetlands and their Boundaries (Wisconsin Department of Administration Coastal Management Program 1995).

The initial steps in the wetland determination included a review of the following documents:

- 1. U.S. Geological Survey Topographic Map (Figure 1);
- 2. Natural Resources Conservation Service (NRCS), formerly the Soil Conservation Service (SCS), excerpts from *Soil Survey of Dane County, Wisconsin* (Figure 2); and
- 3. The Wisconsin Wetland Inventory (WWI) map (Figure 3) for the area.

Results

Vegetation on the Property consists primarily of active agricultural fields. The northwestern corner of the Property contains upland woodland, while the southwestern corner of the Property along with the small portion of the Property west of CTH PB contains a ruderal, old field plant community with scattered shrubs and trees. The Property is gently to moderately sloping with topographic highs in the southern portions of approximately 1150 feet above mean sea level (msl). Topographic lows of about 1000 feet msl exist in the northwestern corner of the Property (Figure 1). The Property is bordered by a mix of agricultural fields, woodland, and low density residential housing to the north, east, and south, and by the Highway 18/151 bypass to the west.

The soil survey map identifies St. Charles (ScA, ScB), Dodge (DnB, DnC2), McHenry (MdC2, MdD2), and Troxel (TrB) soils on the Property (Figure 2). The St. Charles series consists of well drained silty and loamy soils that formed in glacial till or glacial outwash covered by a thick cap of wind blown loess. The Dodge series consists of well drained silty and loamy soils that formed in glacial till covered with a moderately thick cap of wind blown loess. The McHenry series consists of well drained silty and loamy soils that formed in glacial till covered with a thin cap of wind blown loess. The Troxel series consists of well drained silty and loamy soils that formed in glacial till covered with a thin cap of wind blown loess. The Troxel series consists of well drained silty soils that formed in localized colluvial sediments overlying glacial till or glacial outwash. According to the hydric soils list for Dane County, Troxel soils can contain inclusions of poorly drained soils, while none of the other soil map units on the Property are hydric.

The Wisconsin Wetland Inventory (WWI) map does not identify wetlands on or adjacent to the Property (Figure 3). The topographic map of the Property does show an intermittent stream in the central and northern portions of the Property (Figures 1 and 3), which was not in evidence during the field visit. The topographic map also indicated a small area of open water just off of the Property to the west, which like the intermittent stream was not in evidence during the site visit.

Field observations were made on May 1 and May 21, 2007 by Neil Molstad of NRC. Little to no vegetation was present within the active agricultural fields on the Property, as the fields had been tilled and cultivated in preparation for planting. The woodland in the northwestern portion of the Property was dominated by bur oak trees (*Quercus macrocarpa*, FAC-) with an understory consisting primarily of garlic mustard (*Alliaria petiolata*, FAC). The old field area west of CTH PB was dominated by Kentucky bluegrass (*Poa pratensis*, FAC-), quaking aspen (*Populus tremuloides*, FAC), Canada goldenrod (*Solidago canadensis*, FACU), box elder (*Acer negundo*, FACW-), and honeysuckle (*Lonicera x bella*, NI).

The drainageway depicted in Figures 1 and 3 does not exist throughout most of the Property. No evidence of any sort of stream channel was observed on the active agricultural fields in or around the area where the stream is mapped, including off of the Property to the east. A narrow drainageway was observed within the southeastern portion of the wooded portion of the Property, extending for approximately 200 feet. No water was present within this channel, and it was not clear in which direction, if any, this ditch conveys water. No defined bed and banks were observed within the rest of the woodland. A navigability determination for the mapped intermittent drainageway has been submitted to Cami Peterson of the WDNR.

Seven sample points were taken on and around the Property, in representative landscape positions and in questionable areas (Figure 3). While some of the sample points were dominated by hydrophytic vegetation and/or exhibited hydric soil field indicators, no location satisfied all three wetland criteria.

In summary, at least one of the three wetland criteria was not satisfied for the entirety of the Property. Therefore, it was determined that no wetland areas are present on the Property.

The information provided by NRC regarding wetland boundaries and determinations presented are the best estimates of the conditions at the time the site is viewed. The ultimate decision on wetland boundaries and determinations rests with the U.S. Army Corps of Engineers and, in some cases, the Wisconsin Department of Natural Resources, or a local unit of government. As a result, there may be adjustments to determinations based upon review by a regulatory agency. An agency determination can vary from time to time depending on various factors including, but not limited to, recent precipitation patterns and the season of the year. In addition, the physical characteristics of the site can change with time, depending on the weather, vegetation patterns, drainage, activities on adjacent parcels, or other events. Any of these factors can change the nature and extent of wetlands on the site. It is recommended the Client obtain an opinion and authority from regulating government agencies before proceeding with any development or utilization of the property. If the Client proceeds to change, modify or utilize the

Verona Commercial Development Site Wetland Determination

property in question without obtaining authorization from the regulating governmental agency, it will be done at the Client's own risk and NRC will not be responsible or liable for any resulting damages.

If you have any questions, or require any additional information, please call me at (608) 839-1998.

Sincerely, Natural Resources Consulting, Inc.

Neil Molstad, CPSS/PSS Environmental Scientist/Soils

Attachments:

Figure 1: USGS Map Figure 2: Soil Survey Map Figure 3: WWI Map with sample point locations

ACOE Data Sheets Photographs

FIGURE 1. PROJECT LOCATION AND USGS TOPOGRAPHY Verona Commercial Development Site

Sauk Columbia Dodge	Location SEQ of Section 23, T6N, R8E, Town of Verona, Dane County, WI	Legend Approximate Project Boundary	NRC
Iowa Jefferson Green Rock	Project Information NRC Project Number : 007-0061-01 Modified April 30, 2007		119 South Main Street P.O. Box 128 Cottage Grove, WI 53527-0128 phone: 608-839-1998 from 608-020-1005
Map Area Shown in Red	0 1,000 2,000 Feet		www.nrc-inc.net

Verona Commercial Figure 1.mxd Map Created by D. Giblin

/erona Commercial Figure 3.mxd Map Created by D. Giblin

/erona Commercial Figure 4.mxd Map Created by D. Giblin

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor Scott Hassett, Secretary Lloyd L. Eagan, Regional Director South Central Region Headquarters 3911 Fish Hatchery Rd Fitchburg, Wisconsin 53711 Telephone 608-275-3266 FAX 608-275-3338 TTY 608-275-3231

INF-SC-2007-13-6116LR

September 4, 2007

Neil Molstad Natural Resources Consulting, Inc. 119 South Main St. Cottage Grove, WI 55016

<u>RE: Request for Navigability Determination, located in the NE1/4 SE1/4 S23, T6N R8E, City of Verona, Dane County.</u>

Dear Mr. Molstad:

The Department visited the site referenced above to make a navigability determination on an intermittent waterway that flows through the property. In Wisconsin, the Supreme Court has defined a navigable waterway as one which has a defined bed and banks and carries enough water to float a canoe or other watercraft during the spring high water periods. Based on this definition and the conditions observed at your site, the stream on your property has been determined to be <u>not navigable</u> for chapter 30, Wisconsin Statutes purposes.

Please keep in mind that you may require permits from local or federal agencies and from the DNR's stormwater program for work proposed at the site and you should contact the appropriate staff before beginning any construction at this site.

.If you have any questions, please call me at 608-275-3208.

Sincerely,

Cami Peterson Water Management Specialist

 cc: Stacy Marshall, Project Manager, (262)547-4171, Waukesha, WI U.S. Army Corps of Engineers
 Dane County Zoning Administrator
 Dane County Land and Water Resources
 Kamran Mesbah, Dane County Planning

DEPARTMENT OF THE ARMY ST. PAUL DISTRICT, CORPS OF ENGINEERS SIBLEY SQUARE AT MEARS PARK 190 FIFTH STREET EAST, SUITE 401 ST. PAUL MN 55101-1638

REPLY TO ATTENTION OF September 19, 2007

Operations Regulatory (2007-02956-SLM)

Mr. Andrew Stein Clark Street Development 980 North Michigan Ave., Suite 1280 Chicago, IL 60611

Dear Mr. Stein:

This is in response to a letter dated May 31, 2007 that we received from NRC, Inc. requesting Corps concurrence with the wetland delineation they completed on your property. The project site is located in the Section 23, T. 6N., R. 8E., City of Verona, Dane County, Wisconsin.

We have reviewed the wetland delineation report you provided and concur that the wetland boundary on the property has been established in accordance with the *Corps of Engineers Wetland Delineation Manual* (1987 Manual) and is adequate to establish the limits of Corps of Engineers Clean Water Act jurisdiction. This wetland delineation shall remain valid for a period of five years from the date of this letter, unless new information warrants revision of the delineation before the expiration date.

We have determined that the subject property does not include any surface water resources that are waters of the United States.

This letter is valid only for the project referenced above. If any change in design, location, or purpose is contemplated, contact this office to avoid doing work that may be in violation of Federal law. PLEASE NOTE THAT THIS CONFIRMATION LETTER DOES NOT ELIMINATE THE NEED FOR STATE, LOCAL, OR OTHER AUTHORIZATIONS, SUCH AS THOSE OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES OR DANE COUNTY.

This letter contains an approved jurisdictional determination for your subject site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this determination, you must submit a completed RFA form to the Mississippi Valley Division Office at the following address:

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James B. Wiseman, Jr. Administrative Appeals Review Officer Mississippi Valley Division P.O. Box 80 (1400 Walnut Street) Vicksburg, MS 39181-0080 (601) 634-5820 (601) 634-5816 (fax)

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 C.F.R. part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by November 19, 2007.

It is not necessary to submit an RFA form to the division office if you do not object to the determination in this letter

IF YOU DID NOT MAKE A JURISDICTIONAL DETERMINATION, CONTINUE HERE AND DO NOT INCLUDE THE APPEALS AND BASIS FOR JD FORMS.

This review did **not** include a jurisdictional determination as to whether the waterbody/wetlands that were identified in this report would come under the Corps of Engineers regulatory authority pursuant to Section 404 of the Clean Water Act.

Thank you for your cooperation with the U.S. Army Corps of Engineers regulatory program. If you have any questions, contact Stacy Marshall in our Waukesha office at (262) 547-3064. In any correspondence or inquiries, please refer to the Regulatory number shown above.

Sincerely,

🖌 Robert J. Whiting

Chief, Regulatory Branch

Copy furnished: WDNR – Cami Peterson Neil Molstad, NRC, Inc., 119 South Main St., Cottage Grove, WI 55016

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applic	cant: Mr. Andrew Stein	File Number: 2007-02956-SLM	Date: September 19, 2007
Attache	d is:		See Section below
	INITIAL PROFFERED PERMIT (Standard Perm	nit or Letter of Permission)	A
	PROFFERED PERMIT (Standard Permit or Lett	er of Permission)	В
	PERMIT DENIAL		С
Х	APPROVED JURISDICTIONAL DETERMINA	TION	D
	PRELIMINARY JURISDICTIONAL DETERM	INATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://usace.army.mil/inet/functions/cw/cecwo/reg or Corps regulations at 33 CFR Part 331. A. INITIAL PROFFERED PERMIT: You may accept or object to the permit.

• ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approve jurisdictional determinations associated with the permit.

• **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B. .PROFFERED PERMIT: You may accept or appeal the permit.

• ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

• APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C. PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

• ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.

• APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E. PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appeallant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

If you have questions regarding this decision and/or the appeal process you may contact:	If you only have questions regard contact:	ing the appeal process you may also
Ms. Stacy Marshall U. S. Army Corps of Engineers, Regulatory Branch 1617 E. Racine Ave., Suite 101 Waukesha, WI 53186 Telephone (262) 547-3064	James B. Wiseman, Administrative Appo Mississippi Valley I P.O. Box 80 (1400 V Vicksburg, MS 3918 (601) 634-5820 (601) 634-5816 (fax	Jr. eals Review Officer Division Walnut Street) 81-0080)
RIGHT OF ENTRY: Your signature below grants the right of conduct investigations of the project site during the course of th investigation, and will have the opportunity to participate in all s	entry to Corps of Engineers person e appeal process. You will be provi site investigations. Date:	nel, and any government consultants, to ided a 15 day notice of any site Telephone number:

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Signature of appallant on agent	
Signature of appendit of agent.	

APPENDIX D

DELINEATION ASSURANCE LETTER

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor Matthew J. Frank, Secretary Lloyd L. Eagan, Regional Director South Central Region Headquarters 3911 Fish Hatchery Road Fitchburg, Wisconsin 53711-5397 Telephone 608-275-3266 FAX 608-275-3338 TTY Access via relay - 711

December 4, 2008

Jeff Kraemer Natural Resources Consulting, Inc. PO BOX 128 Cottage Grove, WI 53527-0128

Dear Mr. Kraemer:

As the active field season draws to a close, we send our appreciation for your work as an assured wetland delineator. We hope you've found some benefits of assurance for your company and your clients.

Over the last year we have learned even more about the challenges you face in the field as well as identified some issues that still need improvement to ensure a successful, well-rounded program. We'd like to take this opportunity to inform you of some program changes that will be implemented beginning the winter of 2008-2009.

Historically, we've given the option to either send delineation reports to Ms. Roberta Lund in our Central Office either as they've been completed through the year or all at once by the end of the calendar year. We've also relied upon reviews of three randomly selected wetland delineation reports to evaluate continued performance. Most importantly, despite the talent of those applying we've been disappointed at the inability to add to our assured wetland delineator list. Based on what we've learned to date, the program will be seeing the following changes:

- 1. All delineation reports conducted during the 2008 calendar year must be submitted by January 15, 2009. Please send reports to Ms. Roberta Lund, DNR-WT/4, P.O. Box 7921, Madison, WI 53707-7921.
- 2. Starting in 2009, all delineation reports must be submitted to the above address as they are completed during the year.
- 3. One to two delineations will be randomly selected during the growing season as the reports are received in order to document consistency between the site conditions at the field boundary and those described in the delineation report.
- 4. Documentation of continuing education must be provided no later than December 31 of any calendar year. Relevant continuing education courses include those related to wetland identification, plants, hydrology, soils, or ecology. Please also remember that the advanced wetland delineation course should be retaken every 5 years which is particularly important considering the new supplements to the 1987 COE Wetlands Delineation Manual.
- 5. The delineation courses provided through UW-LaCrosse will soon include a specific component to both teach and/or reinforce the importance of slide reviews for atypical and problem areas. Because of the significant information these slide reviews provide, the failure to perform, describe or document these reviews have resulted in enough errors to prevent otherwise qualified delineators from being accepted into the assurance program.

6. DNR staff will be receiving specific training in the area of slide reviews to ensure proper review of wetland delineations, as well.

If you have questions or would like further information, please contact me at 608-275-3282 or pamela.biersach@wisconsin.gov or Pat Trochlell at 608-267-2453 or patricia.trochlell@wisconsin.gov.

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Thank you for your participation in the wetland delineation professional assurance system.

Sincerely,

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Pam Biersach Aquatic Habitat Protection Coordinator Southcentral Region