CFBSI DESIGN BUILD GENERAL CONTRACTOR
CEDAR FALLS BUILDING SYSTEMS, INC

Transmittal

To: Buffalo County Zoning
407 Second Street
PO Box 492
Alma, WI 54610-0492

From: Tom Hubbard

Proj. John & Patricia Starkey
CUP Application for Frac Sand
Drying Facility

Date: 3/16/12

- ☐ As requested
- ■ For review and comment
- ☐ Approved as submitted
- ☐ Returned for corrections
- ☐ Submit _____ copies for distribution
- ☐ For your information
- ■ For your approval
- ☐ Approved as noted
- ☐ Resubmit _____ copies for approval
- ☐ Return _____ corrected prints

Other:

Please find enclosed 4 copies of the Conditional Use Permit Application, including the Preliminary Wetland Delineation for a Frac Sand Drying Facility on the Starkey property on Kamrowski Road in Sections 23 and 26, T. 22 N., R.12 W. for review and approval.

Starkey, John & Patricia, CUP #2012-14
NMM - Frac Sand Drying Facility: Application includes parcel #s 022-00343-0000, 022-00357-0000, 022-00339-0000, 022-00342-0000, \022-00346-0000 in Section 23. Total acreage in Section 23: 146.89 acres. Application also includes parcel #s 022-00419-0000, 022-00420-0000, 022-00424-0000, 022-00428-0000, 022-00433-0000, 022-00430-0000 in Section 26. Total acreage in Section 26: 176.84 acres.

John + Patricia Starkey
CUP 2012-14 (Frac Sand-Dry)

1) NW/NE S26, T20N, R12W
✓022-00419-0000 40 acres

2) SW/NE S26 T20N, R12W
✓022-00420-0000 38.7 acres

3) NE/NW S26 T20N, R12W
✓022-00424-0000 35 acres

4) NW/NW S26, T20N, R12W
✓022-00428-0000 8.00 acres

5) SE/NW S26 T20N R12W
✓022-00433-0000 37 acres

6) SW/NW S26, T20N, 12W
022-00430-0000 19.94 Acres

7) Total 176.84 Ac.

John + Patricia Starkey
CUP 2012-14 (Frac Sand Drying)

1) SW/SE S23 T20N R12W
✓ 022-00357-0000 10 acres

2) NE/SW S23, T20N R12W
✓ 022-00339-0000 25.89 ac

3) NW/SW S23, T20N R12W
✓ 022-00342-0000 40 acres

4) SE/SW S23, T20N 12W
✓ 022-00346-0000 40 acres

5) SW/SW S23, T20N R12W
* 022-00343-0000 31 acres

6) ~~X~~

Total 146.89

MAR 1 5 2012

CFBSI DESIGN BUILD GENERAL CONTRACTOR
CEDAR FALLS BUILDING SYSTEMS, INC

Menomonie: 715.235.3541
Chippewa Falls: 715.723.5511
Fax: 715.235.9190
www.cfbsi.com

5455 Freitag Drive Menomonie, WI 54751 705 Bay Street, Suite 2H, Chippewa Falls, WI 54729

APPLICATION FOR CONDTIONAL USE PERMIT

Buffalo County, Wisconsin

For

John & Patricia Starkey

March 13, 2012

BUTLER
A BlueScope Steel Company

Application for a Conditional Use Permit

Date: 3/13/2012 **Issue #** 2012- 14

The undersigned applies for a conditional use permit to do work herein described and located as shown on the plot plan. The undersigned agrees that all work will be done in accordance with the Buffalo County Zoning Ordinance and all other applicable ordinances of the County of Buffalo and all laws of the State of Wisconsin, applicable to said premises and with the information herein:

Owner	John & Patricia Starkey	Agent	Cedar Falls Building Systems, Inc.
Address	143 West Slatestone Circle	Address	705 Bay St., Suite 2H
City, St, Zip	The Woodlands, TX 77382	City, St, Zip	Chippewa Falls, WI 54729
Phone #	214-419-1188	Phone #	715-723-5511
Email	starkevic@hotmail.com	Email	tomh@cfbsi.com
Signature		Signature	

Legal Description: (May be found on your real estate tax statement) See attached Plat Book pages

____ 1/4 ____ 1/4 Section 23 & 26 Town 20 N Range 12 W

Town of Milton Parcel # ____

Location: State Rd: ____ County Rd: ____ Town Rd: Kamrowski Road

Lot #: ____ Block: ____ Subdivision ____

Lot Size: 325 Acres is lot being split or subdivided? No

Proposed project and/or use: Industrial - Frac Sand Dry Plant

Use of adjoining property and other details: Agricultural

Dimension: Length: 120' Width: 65' Height: 90' Square Ft: 7,200 Dry Plant

Setbacks for project: If any distances are greater than 150', indicate as >150'

Highway Right of Way	> 150	feet	Highway Centerline	>150	feet
Front lot line	>150	feet	Rear lot line	>150	feet
Side lot line (left)	>150	feet	Side lot line (right)	>150	feet
Septic tank	>150	feet	Drainfield	>150	feet
River	>150	feet	Stream	>150	feet
Lake	>150	feet	Wetland	>150	feet
Airport	>150	feet	Wind/Cell facility	>150	feet

Work consists of:

New Building	X	Addition		Sign	
Relocation of building		Substantial land alteration	X	Modification	

Describe in detail the request including any potential noise, odor, dust, smoke, glare, refuse, gas, effluent, or other potential nuisance resulting from the proposed use which may impact neighboring properties:

Frac sand mining operation including: dry plant,storm pond, truck dump facility, and conveyors. Noise impacts include truck movements and train movements. Dust will be controlled by use of dust control and collection system. There will be no smoke, glare, refuse, gas or effluent resulting from the proposed use. An air monitor will be located on site. Wetlands indicated on the WIDNR Wetlands Map have been reviewed by a wetland delineator. Additional investigation will be conducted when the soils are thawed. The entrance to the dry plant will be from Kamrowski Road. There will be up to 500 loads per day arriving at the plant, Monday thru Friday from 5:30 AM to 8:30 PM. Loads will not arrive at the plant from 7-7:40 AM on school days to avoid bus traffic. The dry plant will operate 24/7. Storm water drainage will be directed to a storm water pond. Discharge from the storm water pond will be to Waumandee Creek to the north. Attached Exhibits include: Plat Map, USGS/Satelite map of the Property, Site Plan, WIDNR Wetland Map, WIDNR Floodplain Map.

On the space below or separate sheet, sketch the location of the proposed structure or addition, and distance

Other existing buildings >150' Public roads >150' Bodies of water >150'

Existing/proposed wells >150' Lot lines >150' Septic systems >150'

Please use accurate dimensions for all existing buildings as well as proposed new construction. Failure to fully complete the application or plot plan will result in a delay in processing your application. If you have any questior

1st Starkey Rail Loading — 250.00
3:30 p.m. 3-14-2012 — Ck# 5046

2nd - Starkey Dry Plant. — 3500.00
3:30 p.m 3-14-2012 Ck# 5045

3rd - Seven Sands LLC Nimo + 3500.00
Processing Plant #5044
3:30 3-14-2012

4th - Larson, Stanton + Johnson Mine +
Processing Plants. + 3500.00
#5043

Checks Unchecked

Thomas D. Hubbard THOMAS D. HUBBARD
Julie Kindstrom

BUFFALO COUNTY

Receipt #: 6925
3/16/2012 1:33:17 PM

Page # 1

Property Owner:
JOHN & PATRICIA STARKEY
143 W SLATESTONE CIR
THE WOODLANDS, TX 77382

Conditional Use
2012 14 2012
022-00343-0000
420122333M#M&B1101
TOWN OF MILTON

Fee	Amount
Condition Use Permit-Frac Sand	3,500.00
Total:	3,500.00
Check Payment (Ref. # check # 5045 by T. Hubbard):	3,500.00

LeAnne Loeselz (Zoning Email)

From: Roxann Halverson
Sent: Wednesday, March 28, 2012 8:09 AM
To: LeAnne Loeselz (Zoning Email)
Subject: FW: Frac Permit, across from C-CF School

Not sure if you received this, but thought maybe you would like to put it in the file you have on the permit.

From: Michelle Ehlenfeldt [mailto:mehlenfeldt@yahoo.com]
Sent: Tuesday, March 27, 2012 10:01 PM
To: ecallahan@cfc.k12.wi.us; jressie@cfc.k12.wi.us; sscharlau@cfc.k12.wi.us; kknospe@cfc.k12.wi.us; ckrueger@cfc.k12.wi.us; spronschinske@cfc.k12.wi.us; swilladsen@cfc.k12.wi.us; Rep.Danou@legis.wisconsin.gov; Sen.Vinehout@legis.wisconsin.gov; Roxann Halverson; Del Twidt
Cc: Winona Post
Subject: Frac Permit, across from C-CF School

Buffalo County, State of WI, & C-FC School Board

My name is Michelle Ehlenfeldt. I moved to the C-FC school district 16 years ago. The beauty and all the wonderful things I heard about the school district brought my husband and I to Buffalo County from MN. We thought this would be a perfect place to raise our children. My children come before anything else. When I heard about the frac situation, I knew that the county would not lean towards the destruction of such a beautiful area that brings people from all over. Now that a permit application was submitted to Buffalo County for a frac operation across from the school I am not so certain. I oppose any type of frac operations near the school and the school bus routes. It is against what this school district has given me. I love this area and C-FC. But with my children being number one, I will look to other options. I will not allow my children in a school that allows such harm. It is against my beliefs and it tells me what is and isn't important to the county and the school district. I intended to stay here for the rest of my life. If the permit goes through for the frac operations across from the school, my four children will be schooled elsewhere. We would also look to move out of this area, back to MN. You would lose 4 children to the district and a good family. I hope you have thought long and hard about how this would destroy a wonderful school and community. It may help with short term jobs, but it will be at the cost of many small businesses that count on tourist, many health issues, road issues, our beautiful land, clean air, and deaths. My decision will be very easy to make. I know I won't hesitate to protect my family's well being. Please do not allow this frac sand operation to happen across from the school! What we have is worth so much more than money in someone else's pockets.

I also have a few questions for our congress. How do you feel that allowing a 300+ acre frac sand operation across from a school will make you look good in the eyes of supporters; because it is creating jobs? Why isn't there a law against frac operations in school and community areas? Who will be responsible and pay for health issues in all these children as they age? Who will be responsible for deaths that occur from accidents from these sand trucks? Who will be responsible to pay for road upkeep? Who will be responsible for our land values declining? Who will be responsible years from now when local businesses have closed because no one visits what used to be a beautiful community and tourist area?

Michelle Ehlenfeldt

Bluff Siding, Fountain City - 608-687-6004

3/28/2012

CC http://www.whitehouse.gov...

Buffalo County & CFC Community Members

Area News Papers

LeAnne Loeselz (Zoning Email)

From: Roxann Halverson
Sent: Thursday, March 29, 2012 8:07 AM
To: LeAnne Loeselz (Zoning Email)
Subject: FW: Frac Permit, across from CFC School

Roxann M. Halverson
Buffalo County Clerk
407 S. 2nd St.
P.O. Box 58
Alma, WI 54610
608-685-6209

From: Justin and Lindsay Spitzer [mailto:spitzerfamily@centurytel.net]
Sent: Thursday, March 29, 2012 7:44 AM
To: Michelle Ehlenfeldt; ecallahan@cfc.k12.wi.us; jressie@cfc.k12.wi.us; sscharlau@cfc.k12.wi.us; kknospe@cfc.k12.wi.us; ckrueger@cfc.k12.wi.us; spronschinske@cfc.k12.wi.us; swilladsen@cfc.k12.wi.us; Rep.Danou@legis.wisconsin.gov; Sen.Vinehout@legis.wisconsin.gov; Roxann Halverson; Del Twidt
Cc: Winona Post
Subject: Re: Frac Permit, across from CFC School

Hi I am Justin Spitzer and my 3 children also attend CFC School. My wife and I agree with Michelle Ehlenfeldt's statements below and are against the frac sand mine. We have already been blind sided by one sand mine a couple miles down our road which added a huge amount of truck traffic affecting safety & property value not to mention the noise & unknown health hazards. When the notices for the sand mine on County P were sent out the address listed appeared that it was to be at the other end of the road closer to Hwy 35. The county was in the process of notifying residents that fire numbers were being changed to make finding homes easier for emergency vehicles. The new fire numbers had not yet been posted, but yet the address listed on the notice was the new fire number that was to be posted a month or two later. This was extremely deceiving. Some of those in our neighborhood didn't even receive notices at all. With the permits that have already been approved it seems clear to us that the county has already placed a higher value on money than on resident's health and safety. You represent the people of the community you serve not just the few owners of these proposed mines and certainly not the mining companies. Your duty is to protect and serve the people first and foremost including the children in this area.

You are putting our children's health at risk if you approve this permit and that would be absolutely shameful. We are close enough to the Galesville, Ettrick Trempealeau school district that we too would consider removing our children from CFC if the permit goes through. I think that we are not alone in this. I think if you talk to other parents in the district there are similar concerns about health and safety. We would like our e-mail read at the county Board meeting where this issue is discussed.

Thank you,

Justin & Lindsay Spitzer
S3562 County Rd P
Fountain City, WI 54629

3/29/2012

From: Michelle Ehlenfeldt
Sent: Tuesday, March 27, 2012 10:01 PM
To: ecallahan@cfc.k12.wi.us ; jressie@cfc.k12.wi.us ; sscharlau@cfc.k12.wi.us ; kknospe@cfc.k12.wi.us ; ckrueger@cfc.k12.wi.us ; spronschinske@cfc.k12.wi.us ; swilladsen@cfc.k12.wi.us ; Rep.Danou@legis.wisconsin.gov ; Sen.Vinehout@legis.wisconsin.gov ; roxann.halverson@buffalocounty.com ; del.twidt@buffalocounty.com
Cc: Winona Post
Subject: Frac Permit, across from C-CF School

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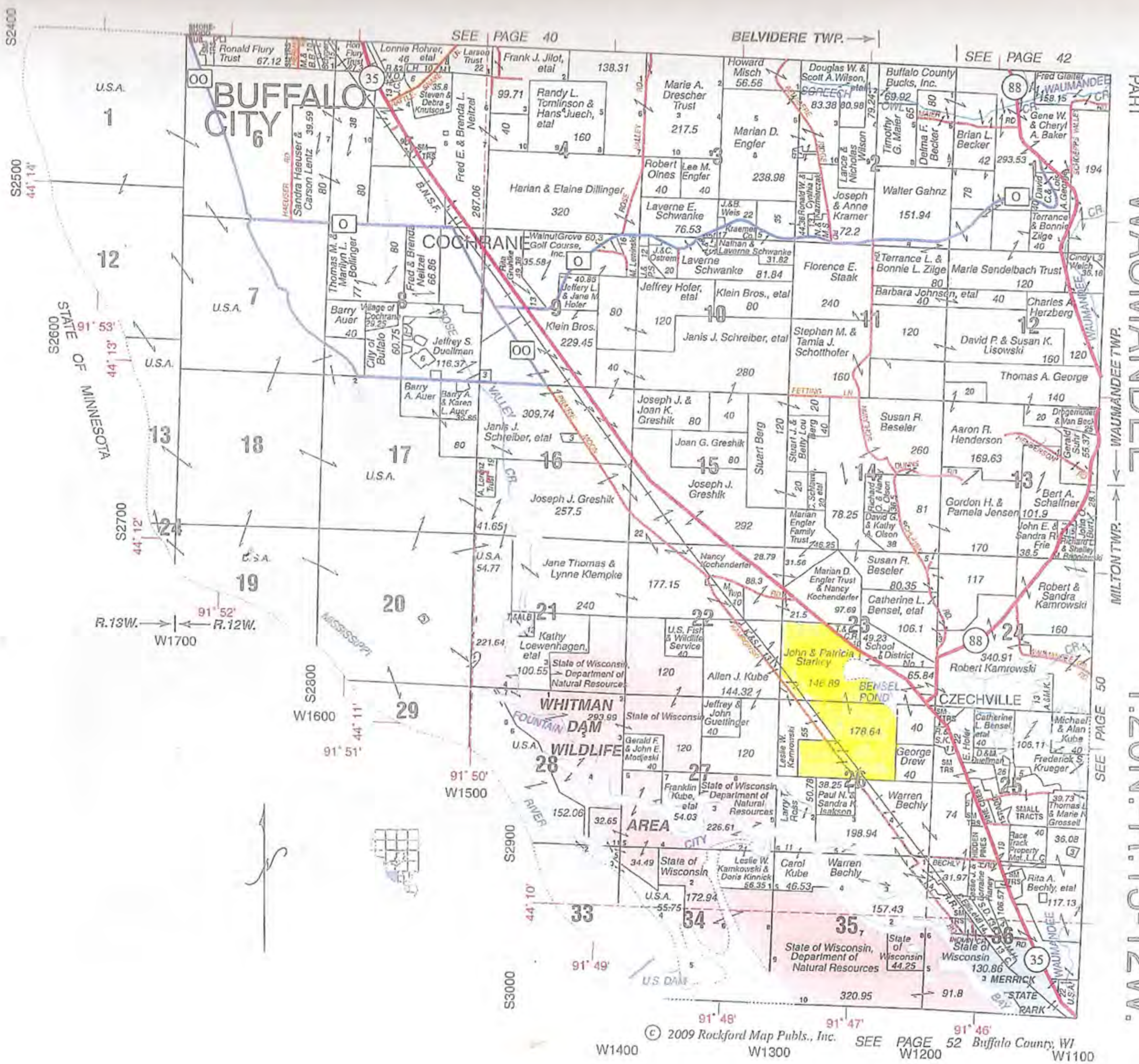
Michelle Ehlenfeldt

Bluff Siding, Fountain City - 608-687-6004

CC http://www.whitehouse.gov...

Buffalo County & CFC Community Members

Area News Papers


SOUTH PART BELVIDERE
SOUTHWEST PART WAUMANDEE
NORTHWEST PART MILTON
T.20N.-R.13-12W.
SEE PAGE 40
BELVIDERE TWP.
SEE PAGE 42
SEE PAGE 50
SEE PAGE 52
WAUMANDEE TWP.
MILTON TWP.
BUFFALO CITY
COCHRANE
CZECHVILLE
WHITMAN DAM WILDLIFE AREA
STATE OF MINNESOTA
MISSISSIPPI RIVER
U.S.A.
R.13W. R.12W.
MERRICK STATE PARK
© 2009 Rockford Map Publs., Inc.
Buffalo County, WI


Quarry
Bensley Pond
Lookout Tower
Zeeh-ville
Sargent
Northern
N
0 0.5 Mi
0 2000 Ft


APPROXIMATE PROPERTY BOUNDARY
SECTION 23
APPROXIMATE PROPERTY BOUNDARY
STH 35
APPROXIMATE PROPERTY BOUNDARY
BENSEL POND
APPROXIMATE PROPERTY BOUNDARY
B.N.S.F. RAILROAD
APPROXIMATE PROPERTY BOUNDARY

SHEET NO. AERIAL

PROJECT:

POTENTIAL WETLAND LOCATIONS

BUFFALO COUNTY, WISCONSIN

POTENTIAL WETLAND LOCATIONS

CORPORATE OFFICE
403 Technology Drive East
Suite A
Menomonie, WI 54751
Tel 715-232-0400
Fax 715-232-0402
men@authconsulting.com

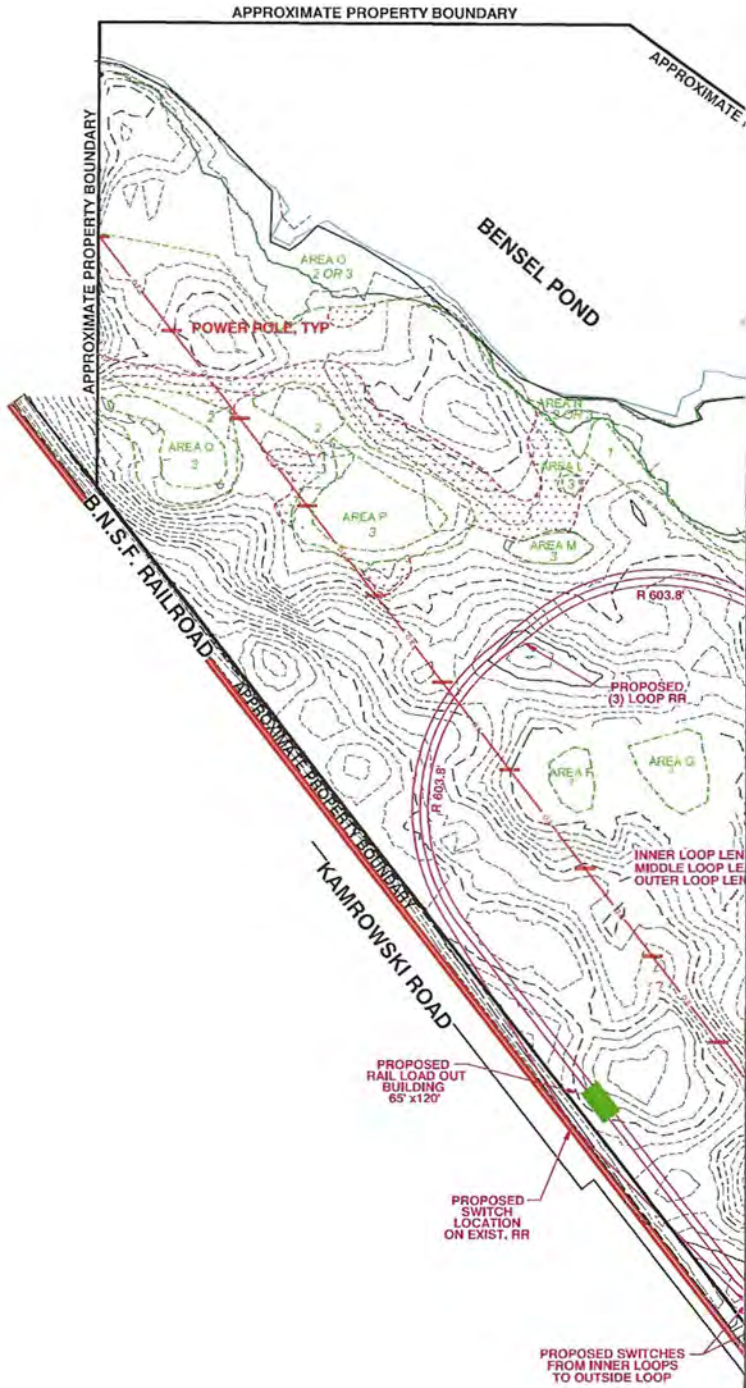
BRANCH OFFICE
2929 Enloe Street
Suite 101
Hudson, WI 54016
Tel 715-381-5277
Fax 715-381-5336
hudson@authconsulting.com

Auth · Consulting/associates

CFBSI DESIGN BUILD GENERAL CONTRACTOR
CEDAR FALLS BUILDING SYSTEMS, INC
5455 Trellay Drive
Menomonie, WI 54751
715-233-3541
www.cfbsi.com
705 Bay Street, Suite 2H
Chippewa Falls, WI 54729
715-723-5511
Central Fax 715-233-9199

DRAWN BY:	ZPF
CHECKED BY:	ZPF
DATE:	03/16/12
DWG FILE:	556-Aerial
REF FILE:	556-002
JOB NUMBER:	556-002

REVISION DESCRIPTION:	NAME:	DATE:
AERIAL PHOTO	ZPF	03/16/12



LEGEND

- 1155 — EXISTING 5FT CONTOURS
- 1151 — EXISTING 1FT CONTOURS
- APPROXIMATE PROPERTY LINE
- EXISTING TREELINE
- APPROXIMATE ORDINARY HIGH WATER MARK (O.H.W.M.)
- APPROXIMATE WETLAND BOUNDARY
- EXISTING RAIL ROAD
- PROPOSED RAIL ROAD
- 3 - DENOTES DEFINITE WETLAND AREA
- 2 - DENOTES LIKELY WETLAND AREA
- 1 - DENOTES POTENTIAL WETLAND AREA
- POTENTIAL HYDRIC SOILS AREA

NOTE:

1. POTENTIAL HYDRIC SOILS INDENTIFIED ON THE WISCONSIN DNR SURFACE WATER DATA VIEWER MAP THAT ARE WITHIN THE PROJECT AREA ARE OUTLINED PINK. THESE AREAS HAVE A SLIGHT POTENTIAL TO BE WETLANDS AND SHOULD BE CONFIRMED DURING A DELINEATION.

PROJECT:

DRY PLANT & LOADING FACILITY

BUFFALO COUNTY, WISCONSIN

PRELIMINARY SITE PLAN

SHEET NO.
C2.0

CORPORATE OFFICE
408 Technology Drive East
Suite A
Menomonie, WI 54751
Tel 715-232-8460
Fax 715-232-8492
men@eauthconsulting.com

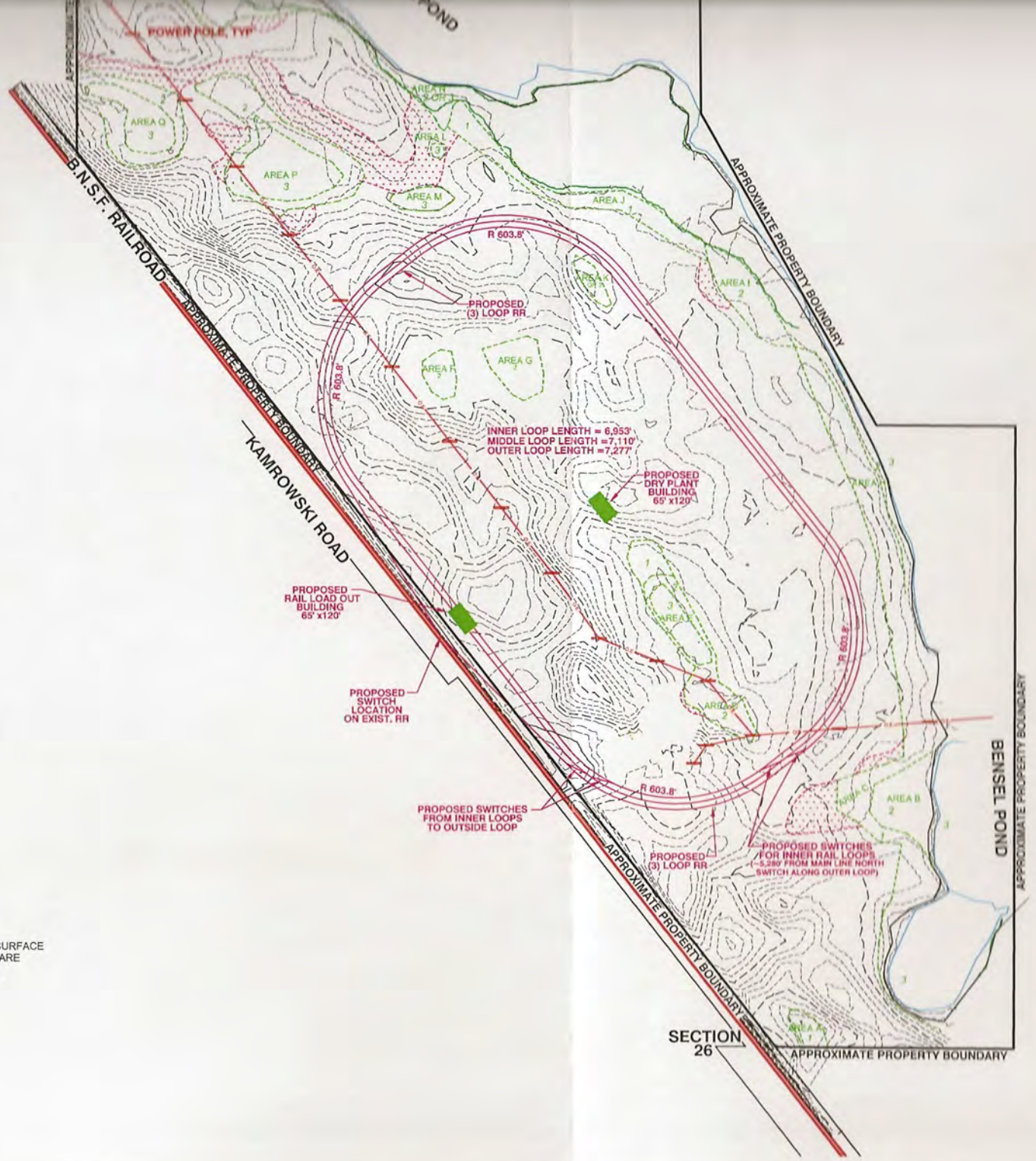
BRANCH OFFICE
2920 Baker Street
Suite 101
Baldwin, WI 54016
Tel 715-381-5277
Fax 715-381-5388
bcfalls@eauthconsulting.com

Auth-Consulting/associates

CFBSI DESIGN BUILD GENERAL CONTRACTOR
CEDAR FALLS BUILDING SYSTEMS, INC.

DRAWN BY:	KLJ/ZPF		
CHECKED BY:	KLJ		
DATE:	03/12/12		
DWG FILE:	556-psite		
REF FILE:	556-002		
JOB NUMBER:	556-002		

REVISION DESCRIPTION:	NAME:	DATE:
REVISED FOR WETLANDS	ZPF	03/16/12
RELEASED FOR REVIEW	KLJ	03/12/12



LEGEND

- 1155 — EXISTING 5FT CONTOURS
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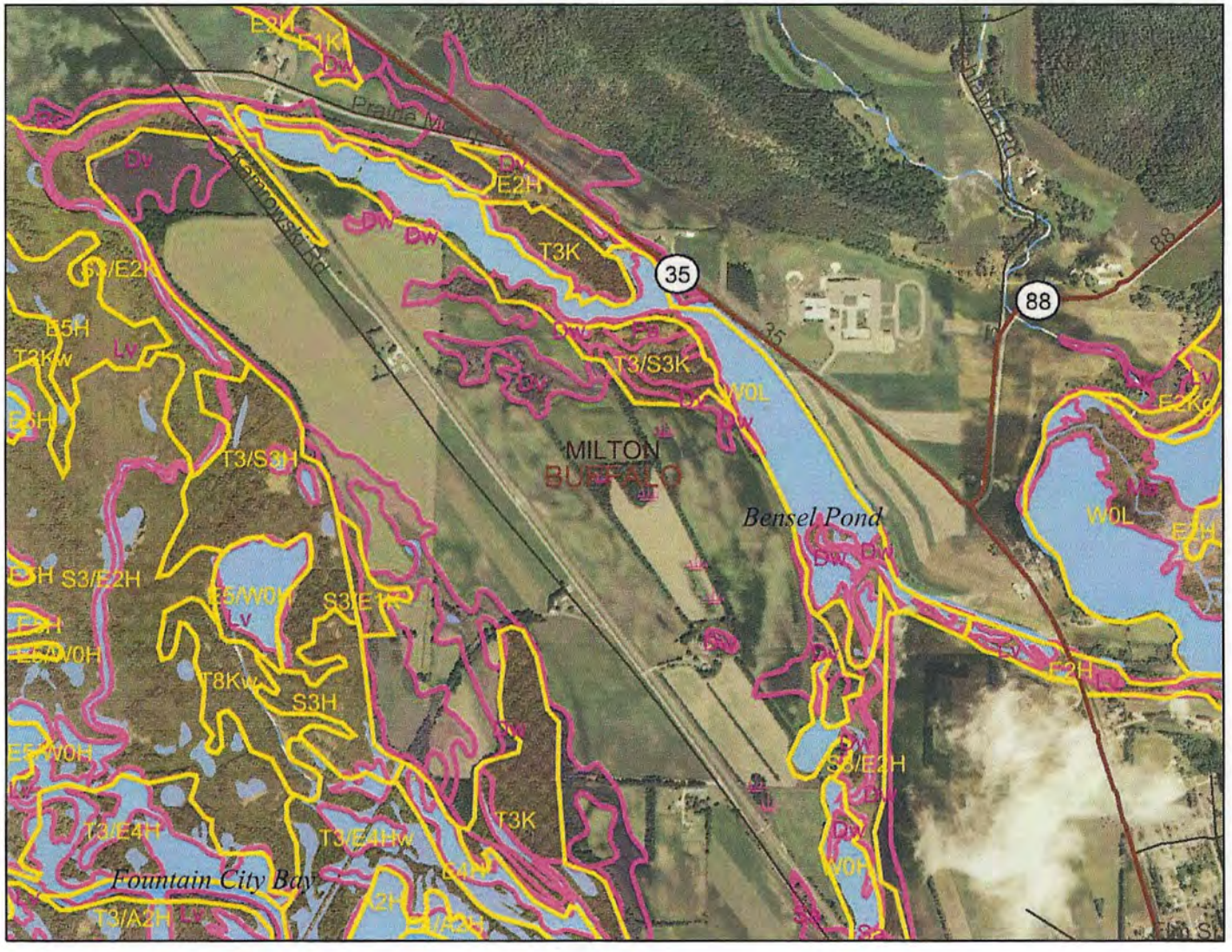
Map Created on Mar 09, 2012



Legend

Major Highways

- Interstate
- State Highway
- U.S. Highways
- County Roads
- Local Roads
- 24K County Boundaries

Civil Towns

- Civil Town

USDA Wetspots

DNR Wetland Points

- Excavated Pond
- Dammed Pond
- Wetland Too Small to Delineate
- Filled Excavated Pond
- Filled Dammed Pond
- Filled Wetland Too Small to Delineate
- Filled or Drained Wetland

DNR Wetland Areas

- Upland
- Wetland
- Filled or Drained Wetland

Wetland Indicator Soils

24K Open Water

24K Rivers and Shorelines

- Intermittent
- Fluctuating
- Perennial

Cities and Villages

- Village
- City

0 1800 3600 5400 ft.

Scale: 1:18,986

Map created on Mar 9, 2012

Wisconsin Wetland Inventory (WWI) maps show graphic representations of the type, size and location of wetlands in Wisconsin. These maps have been prepared from the analysis of high altitude imagery in conjunction with soil surveys, topographic maps, previous wetland inventories and field work. State statutes define a wetland as "an area where water is at, near or above the land surface long enough to be capable of supporting aquatic or hydrophytic vegetation and which has soils indicative of wet conditions." The principal focus of the WWI is to produce wetland maps that are graphic representations of the type, size and location of wetlands in Wisconsin. Within this context, the objective of the WWI is to produce reconnaissance level information on the location, type, size of these habitats such that they are accurate at the nominal scale of the 1:24,000 (1 inch = 2000 feet) base map. The DNR recognizes the limitations of using remotely sensed information as the primary data source. They are to be used as a guide for planning purposes. There is no attempt, in either the design or products of this inventory, to define the limits of jurisdiction of any Federal, State, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State, or local agencies concerning specified agency regulatory programs and jurisdictions that may affect such activities. The most accurate method of determining the legal extent of a wetland for federal or state regulations is a field delineation of the wetland boundary by a professional trained in wetland delineation techniques.

Notes: Wetlands & Wetland Soils Indicators

Map Created on Mar 09, 2012

0 1800 3600 5400 ft.

Legend

- Dams
- Analysis Points
- Flood Insurance Study
- Letter of Map Revision
- Case By Case Analysis
- Bridge
- OTHER

Analysis Lines

- Flood Insurance Study
- Letter of Map Revision
- Case By Case Analysis
- Bridge
- OTHER

Major Highways

- Interstate
- State Highway
- U.S. Highways
- County Roads
- Local Roads
- 24K County Boundaries

Civil Towns

- Civil Town

Digital Flood Boundaries

- 100 Year Floodplain
- 500 Year Floodplain
- Floodway
- 24K Open Water

24K Rivers and Shorelines

- Intermittent
- Fluctuating
- Perennial

Cities and Villages

N

Scale: 1:18,986

Notes: Floodplain

Evergreen Irrigation Inc.
P.O. Box 155; Hammond, WI 54015 Phone: 715-796-5664 Fax: 715-796-5246

March 16, 2012

Auth Consulting & Associates
Attn: Matt Hieb
2920 Enloe Street; Suite 101
Hudson, WI 54016

RE: Preliminary Wetland Assessment

Dear Mr. Hieb;

On February 22, 2012 a preliminary wetland assessment was completed at the request of Auth Consulting & Associates. The assessment included approximately 200 acres in the Town of Milton, in Sections 23 and 26, Township 20 N, Range 12W, Buffalo County. The approximate extent of the assessment area is outlined in Red on the aerial photograph below. This letter and attachments summarize the results of the assessment.

The photo above is from 2008 and was generated through the WI DNR Surface Water Data Viewer (http://dnrmaps.wi.gov/imf/imf.jsp?site=SurfaceWaterViewer).

Off-Site Research

Prior to completing the on-site assessment, information was collected off-site through review of documents and maps to identify potential wetland areas that are located on site.

Topography
The topographic map of the project area was downloaded from http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=SurfaceWaterViewer. The topographic map is included as Attachment B.

Wisconsin Wetland Inventory Map (WWIM)
The WWIM was reviewed to identify any wetlands previously mapped by the WI Department of Natural Resources, Bureau of Planning. The wetland map is included as Attachment C. The wetland inventory map was downloaded from http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=SurfaceWaterViewer . Mapped wetlands are highlighted in yellow and potential hydric soils "Wetland Indicator Soils" are highlighted in pink.

Soils Map
The USDA-NRCS soil map and hydric ratings have been downloaded from http://websoilsurvey.nrcs.usda.gov/app. A copy of the downloaded information is included as Attachment D. During the site visit, all areas identified as wetland indicator soil did not appear to be wetlands. Those areas that appeared to be wetlands are highlighted in green on the map included as attachment A. Those wetland indicator soils not highlighted in green have a slight potential to be wetland and should be observed during any future wetland delineations completed. (Note: Duelm soils (Dv) are not listed as partially hydric on the NRCS soil map. They are however listed as a wetland indicator soil on the the Wisconsin DNR Surface Water Data Viewer map.)

ON SITE ASSESSMENT RESULTS

A wetland assessment was completed on February 22, 2012. Since the assessment was completed outside of the growing season and the soils were frozen at the time of the assessment, wetland boundaries could not be delineated. There was very little snow at the time of the assessment so many plants could still be observed and many hydrology features could also be observed. Characteristics such as vegetation, evidence of ponding, and topographic position were used to assign a wetland probability rating (WPR) from 1 to 3. The WPR is given right after the location heading and on the map included as Attachment A.

Wetland Probability Rating (WPR)
1 = potentially a wetland
2 = likely a wetland
3 = definitely a wetland
Abbreviations
OBL = Obligate Wetland- Species that occurs in a wetland 66-99% of the time
FACW = Facultative Wetland - Species that occurs in a wetland 66-99% of the time
FAC = Facultative - Species that occurs in a wetland 33-66% of the time
FACU = Facultative Upland - Species that occurs in a wetland 1-33% of the time
UPL = Obligate Upland - Species that occurs in a wetland 0-1% of the time

Areas observed and their characteristics are summarized below.

Potential Hydric Soils – Potential hydric soils that are in the project area and are not included totally in one of the areas listed below, are highlighted in pink on the map included as Attachment A. No wetland indicators were observed in the pink areas, unless highlighted in green. These pink areas should still be confirmed during any future wetland delineations if wetland impacts are proposed in these areas.

Area A – WPR-1

- Indentified as a USDA wetspot on the soil survey map.
- This area is a small depression with no outlet.
- The area is wooded with sparse areas of reed canary grass (FACW species).

Area B – WPR-2

- The soil is identified as a wetland indicator soil on the DNR Surface Water Viewer map.
- The soil at the far western edge was hydric. The soil was frozen but could be observed because it had been plowed last fall.
- This area is part of a natural drainage way. Precipitation received in the field runs off through this low area before entering the wetland.
- The primary vegetation was goldenrod within the areas that had not been plowed. I could not determine in the species were canada goldenrod (FACU) or giant goldenrod (FACW).
- There were 5 to 10 foot diameter pockets of reed canary grass monocultures. Reed Canary grass is a FACW species and commonly observed in disturbed wetlands.

Area C – WPR-1

- The soil is identified as a wetland indicator soil on the DNR Surface Water Viewer map.
- This area is part of a natural drainage way and therefore has a slight possibility to be a wetland.

Area D – WPR-2

- The soil is identified as a wetland indicator soil on the DNR Surface Water Viewer map and on the NRCS Soil Survey Map.
- There were a few sedges that could be identified at the time of the assessment, however the area had been mowed during the 2011 growing season so the vegetation had been significantly disturbed.

The photo above shows Area D in the front and Area E in the background behind the phone pole.

Area E – WPR-1 to 3 (see map)

- Two wet spots are identified on the DNR Surface Water Viewer map.
- There are many species of hydrophytic vegetation that could be identified during the preliminary assessment. The vegetation identified included sedges, willows, red osier dogwood, sensitive fern, and reed canary grass.

The photo above shows the north half of Area E and the photo below shows the south half.

Area F – WPR-2

- A wet spot is identified on the DNR Surface Water Viewer map.
- This area appears to be a closed depression.
- There are water stained leaves present indicating this area has experienced ponding.
- There are uprooted trees within the center of the basin while there are not any outside of the depression. This indicates that the area could have been saturated to the surface during a wind storm and therefore the trees were more susceptible to being uprooted.
- There are deep depressions of deer tracks in the soil indicating it was very wet at one time.

Area G – WPR-2

- A wet spot is identified on the DNR Surface Water Viewer map.
- This area appears to be a closed depression.
- There are water stained leaves present indicating this area has experienced ponding.
- There are uprooted trees within the center of the basin while there are not any outside of the depression. This indicates that the area could have been saturated to the surface during a wind storm and therefore the trees were more susceptible to being uprooted.
- There are deep depressions of deer tracks and tire ruts in the soil indicating it was very wet at one time.
- There are species of hydrophytic vegetation that could be identified during the preliminary assessment. The vegetation identified included silver maple and river birch.

Area H – WPR-1 & 3

- This area is identified as a wetland on the DNR Surface Water Viewer map.
- The area was dominated by hydrophytic vegetation just outside of the previously farmed area.
- The area identified as potential wetland or 1 on the map has not been farmed for a few years. It is unknown if that is due to temporarily wet conditions or if it is just a buffer strip that was left in place.

Area I – WPR-2

- A portion of this area was identified as a wetland indicator soil on the DNR Surface Water Viewer map and on the NRCS Soil Survey Map.
- The area appears sparsely vegetated on the Fall 2011 aerial photos (see Attachment A).
- The forested portion of the area is dominated by hydrophytic species including silver maple, box elder and river birch.

Area J – WPR-1

- A portion of this area is identified as a wetland on the DNR Surface Water Viewer map.
- The surface soils were very dark in this area. It is likely that the wetland is at or inside the treeline, but this area should be checked out.

Area K – WPR-1 to 2

- This area is identified as a wetspot on the DNR Surface Water Viewer map.
- This area is a small closed depression in the middle of the field.

Area L – WPR-3

- The soil was identified as a wetland indicator soil on the DNR Surface Water Viewer map.
- This area is identified as a wet spot on the DNR Surface Water Viewer map.
- Soybeans were planted here last year, but did not grow.
- There are tire ruts through this area indicating that it was wet at the time it was planted or harvested.

Area M – WPR-3

- The soil was identified as a wetland indicator soil on the DNR Surface Water Viewer map.
- This area is in the middle of the field and was not planted last year, assumedly because it was too wet.
- Cattails (OBL species) are present in this area.

Area N – WPR-2 to 3

- This area is identified as a wetland on the Wisconsin Wetland Inventory Map.
- There was ponding observed just outside the forested area.

Area O – WPR-2 to 3

- The soil was identified as a wetland indicator soil on the DNR Surface Water Viewer map and on the NRCS Soil Survey Map.
- The area was vegetated primarily by river birch (shrubs) and reed canary grass.

Area P – WPR-2 to 3

- The soil was identified as a wetland indicator soil on the DNR Surface Water Viewer map.
- Forested areas are dominated by river birch and open areas were vegetated with cattails and sedges. Both of which are hydrophytic plant species.

Area Q – WPR-2 to 3

- The soil was identified as a wetland indicator soil on the DNR Surface Water Viewer map.
- The area was dominated by hydrophytic species including hummock sedge, reed canary grass, dogwoods, and willows.

CONCLUSION

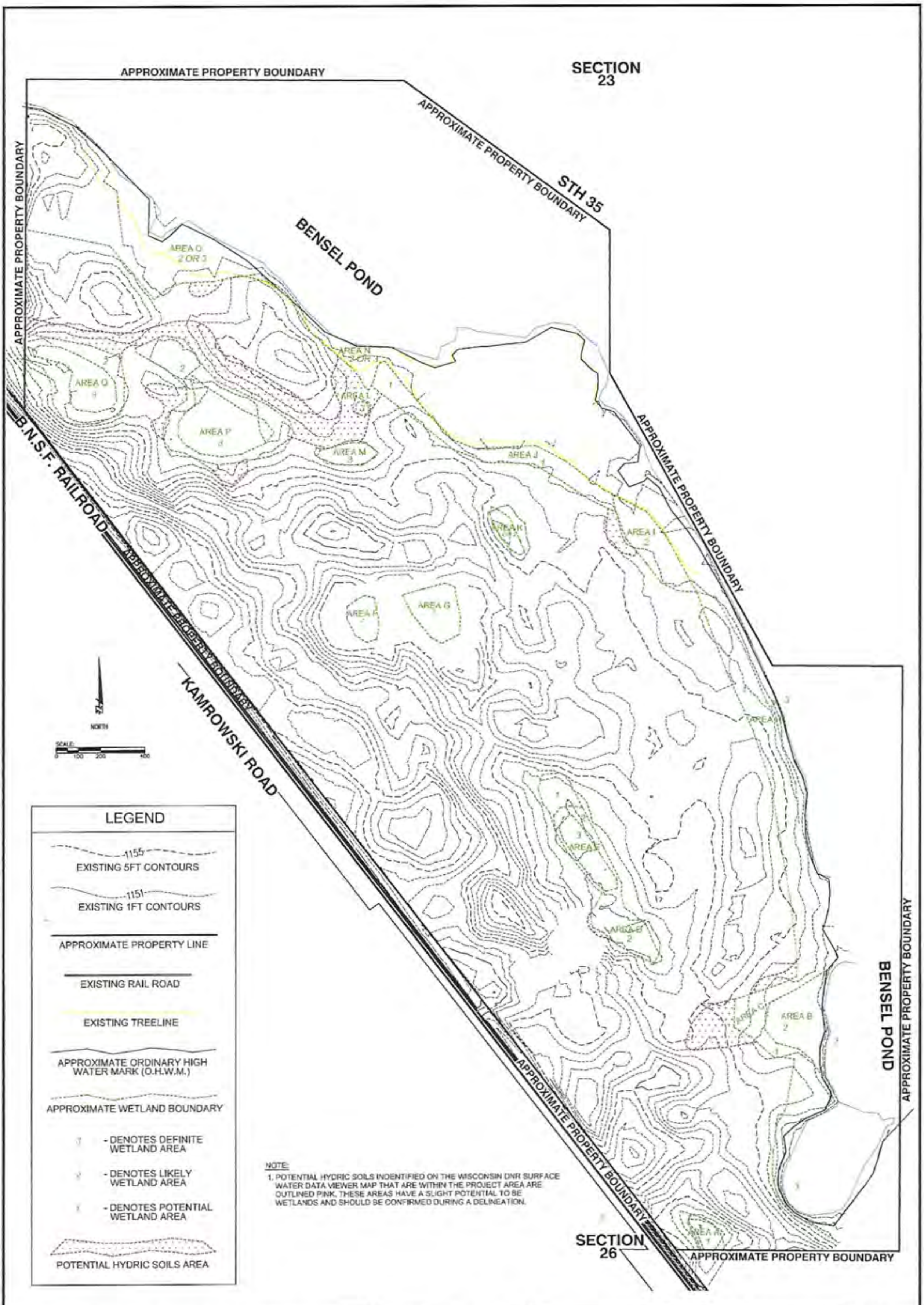
Through this preliminary assessment, approximate locations of potential wetlands on site have been identified. A map of the approximate locations of potential wetlands has been included as Attachment A. All areas identified in green and pink on the map in Attachment A should be evaluated during the growing season to delineate any wetlands that may be present.

The assessment completed is not a delineation as it did not use prescribed methods for wetland boundary determination and was completed outside of the growing season. If you have any questions regarding the assessment please feel free to contact me at 1-715-796-5664.

Sincerely,
Evergreen Irrigation Inc.

Mark Iverson
Professional Soil Scientist

Enclosure



WETLAND

POTENTIAL WETLAND LOCATIONS

BUFFALO COUNTY, WISCONSIN

POTENTIAL WETLAND LOCATIONS

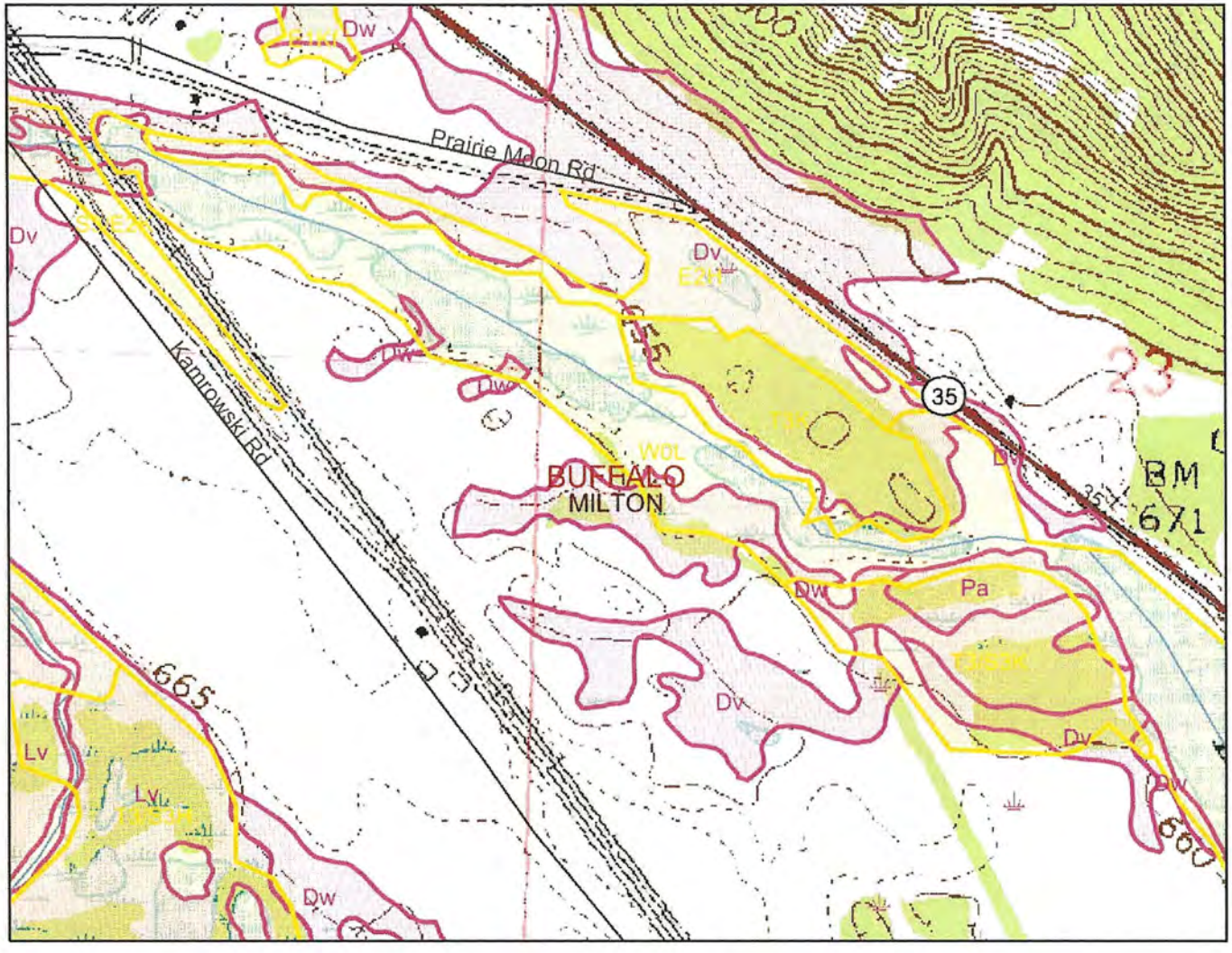
Auth·Consulting/associates

CEDAR FALLS BUILDING SYSTEMS, INC

DRAWN BY:	KLJ/ZPF
CHECKED BY:	ZPF
DATE:	03/15/12
DWG FILE:	556-Wetlands
REF FILE:	556-002
JOB NUMBER:	556-002

REVISION DESCRIPTION	NAME	DATE
POTENTIAL WETLAND LOCATIONS	ZPF	03/16/12

Map Created on Feb 21, 2012



Legend

Major Highways
- Interstate
- State Highway
- U.S. Highways
- County Roads
- Local Roads

24K County Boundaries

Civil Towns
- Civil Town

USDA Wetspots

DNR Wetland Points
- Excavated Pond
- Dammed Pond
- Wetland Too Small to Delineate
- Filled Excavated Pond
- Filled Dammed Pond
- Filled Wetland Too Small to Delineate
- Filled or Drained Wetland

DNR Wetland Areas
- Upland
- Wetland
- Filled or Drained Wetland

Wetland Indicator Soils

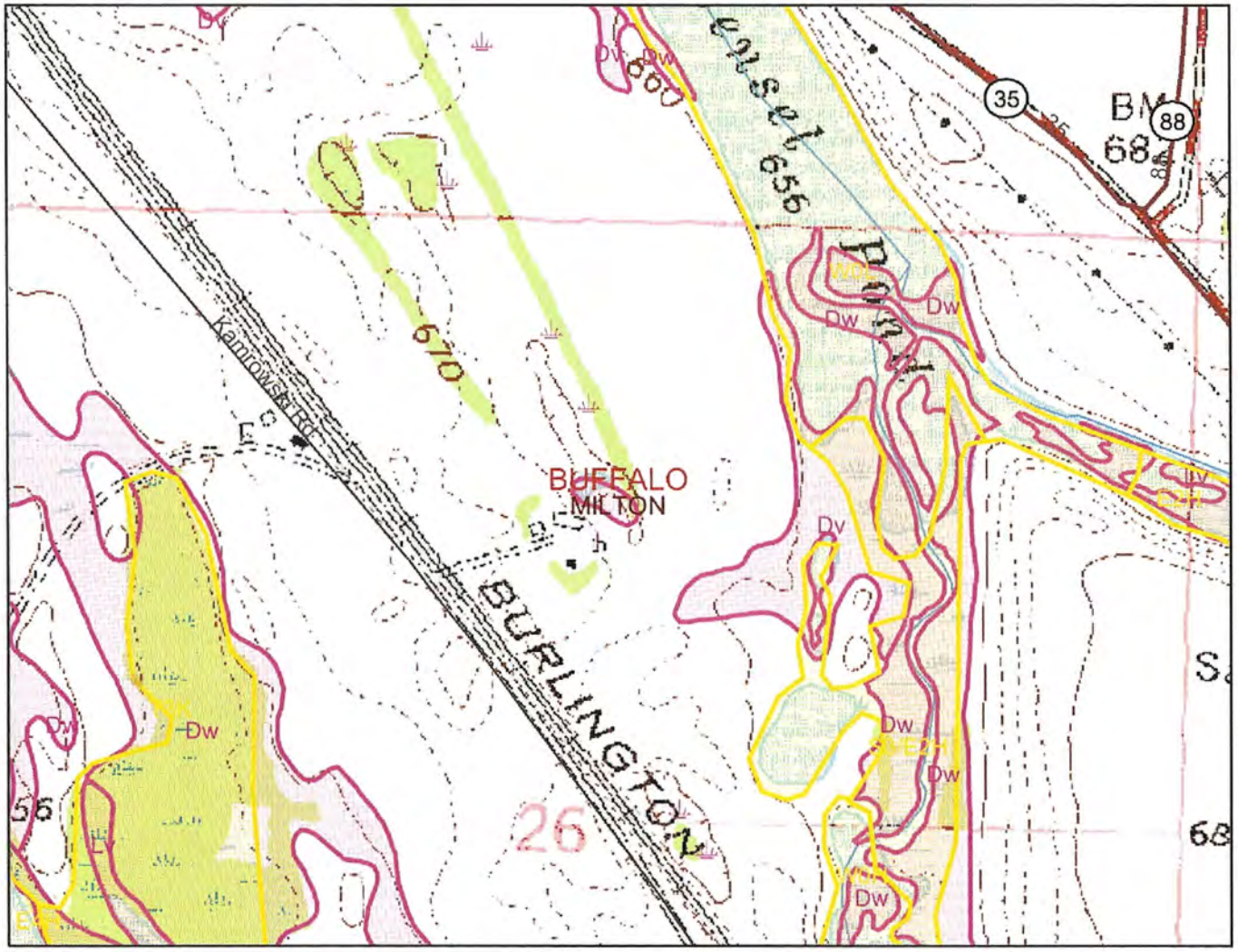
24K Rivers and Shorelines
- Intermittent Fluctuating
- Perennial

Cities and Villages
- Village
- City

0 850 1700 2550 ft.

Scale: 1:8,849

Map Created on Feb 21, 2012



Legend

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Local Roads

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Civil Town

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Wetland Indicator Soils

24K Rivers and Shorelines
- Intermittent
- Fluctuating
- Perennial

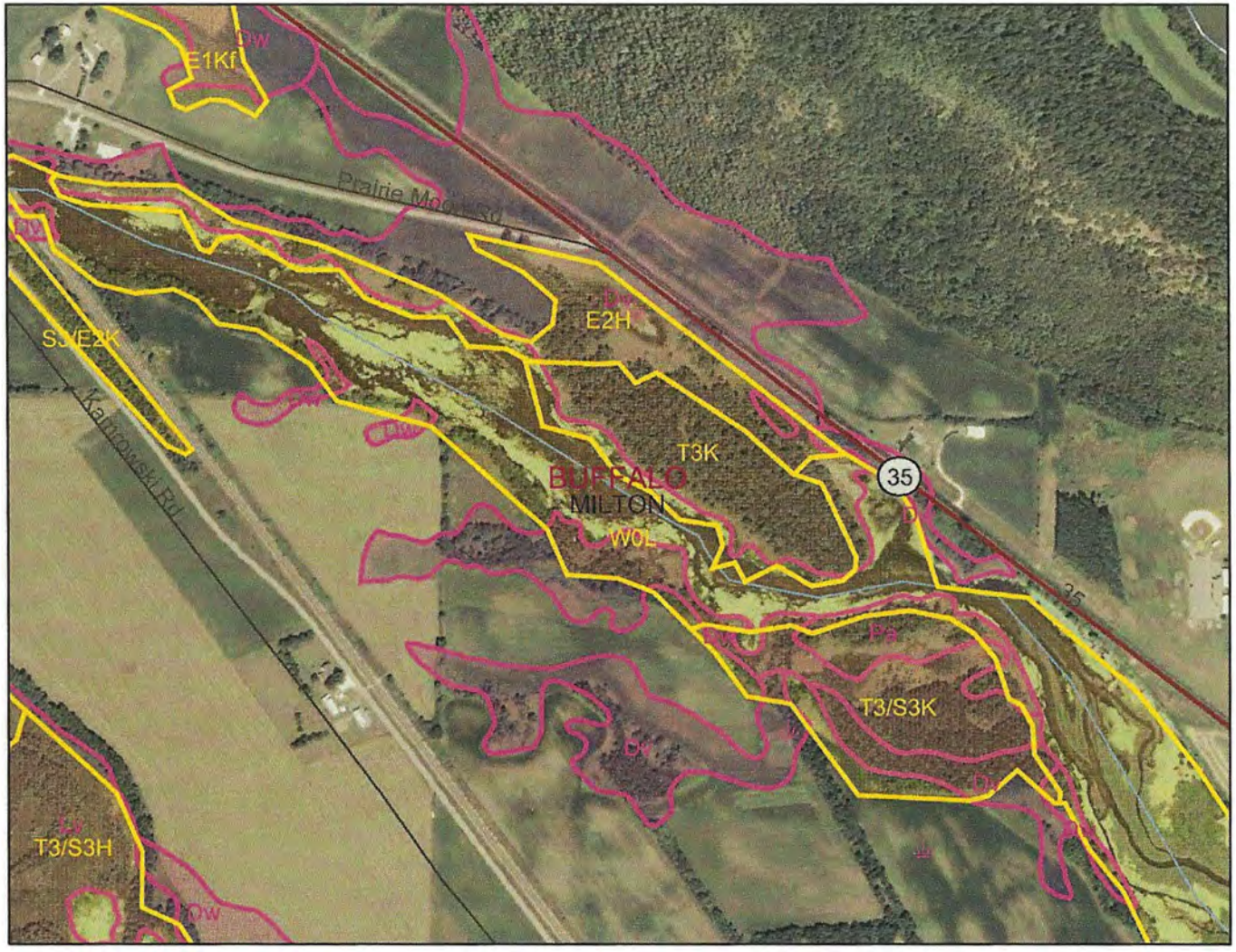
Cities and Villages
- Village
- City

0 850 1700 2550 ft.

N

Scale: 1:8,849

Map Created on Feb 21, 2012



Legend

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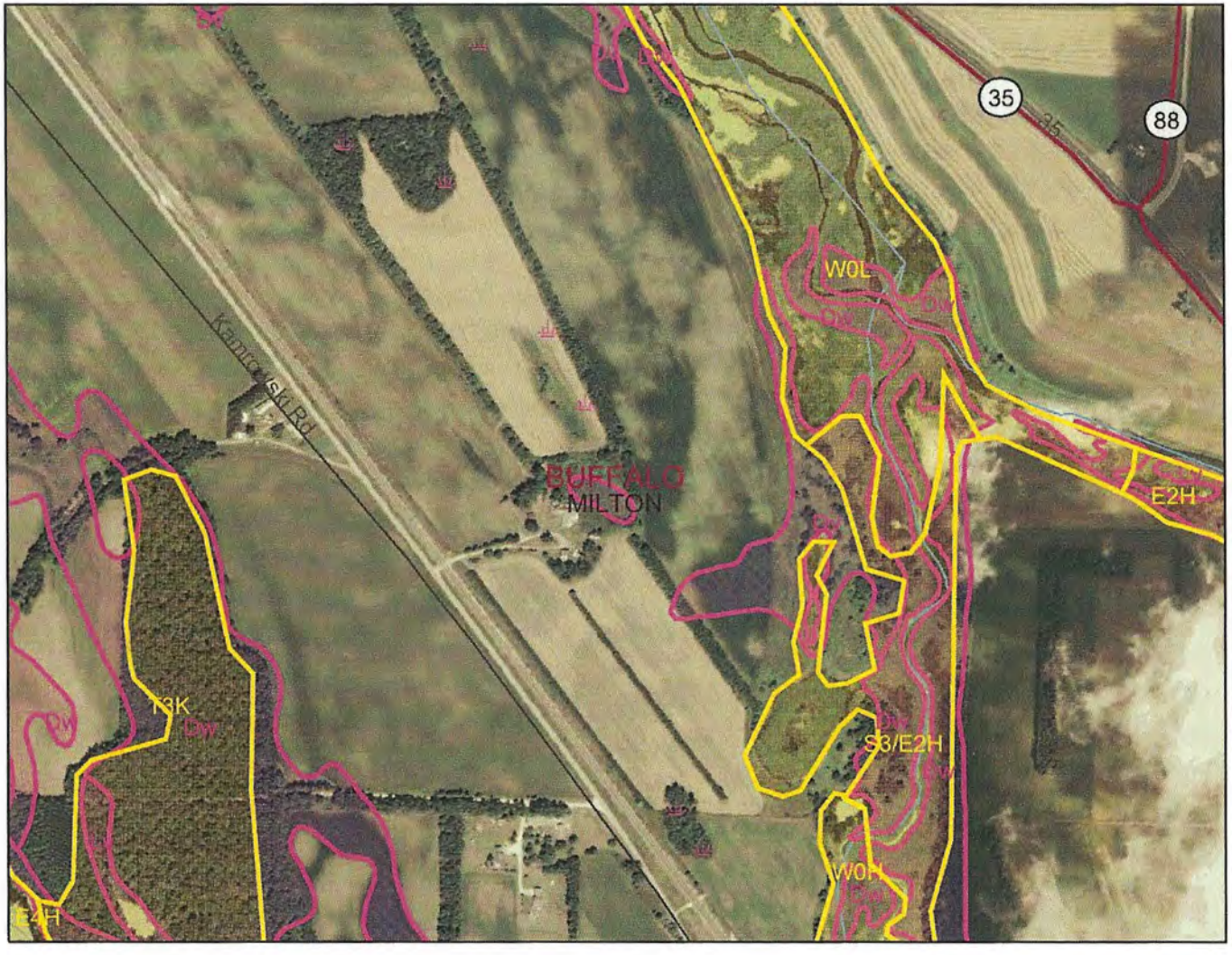
- Village
- City

Scale: 1:8,849

Map Created on Feb 21, 2012



Legend

Major Highways

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24K County Boundaries

Civil Towns

- Civil Town

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24K Rivers and Shorelines

- Intermittent Fluctuating
- Perennial

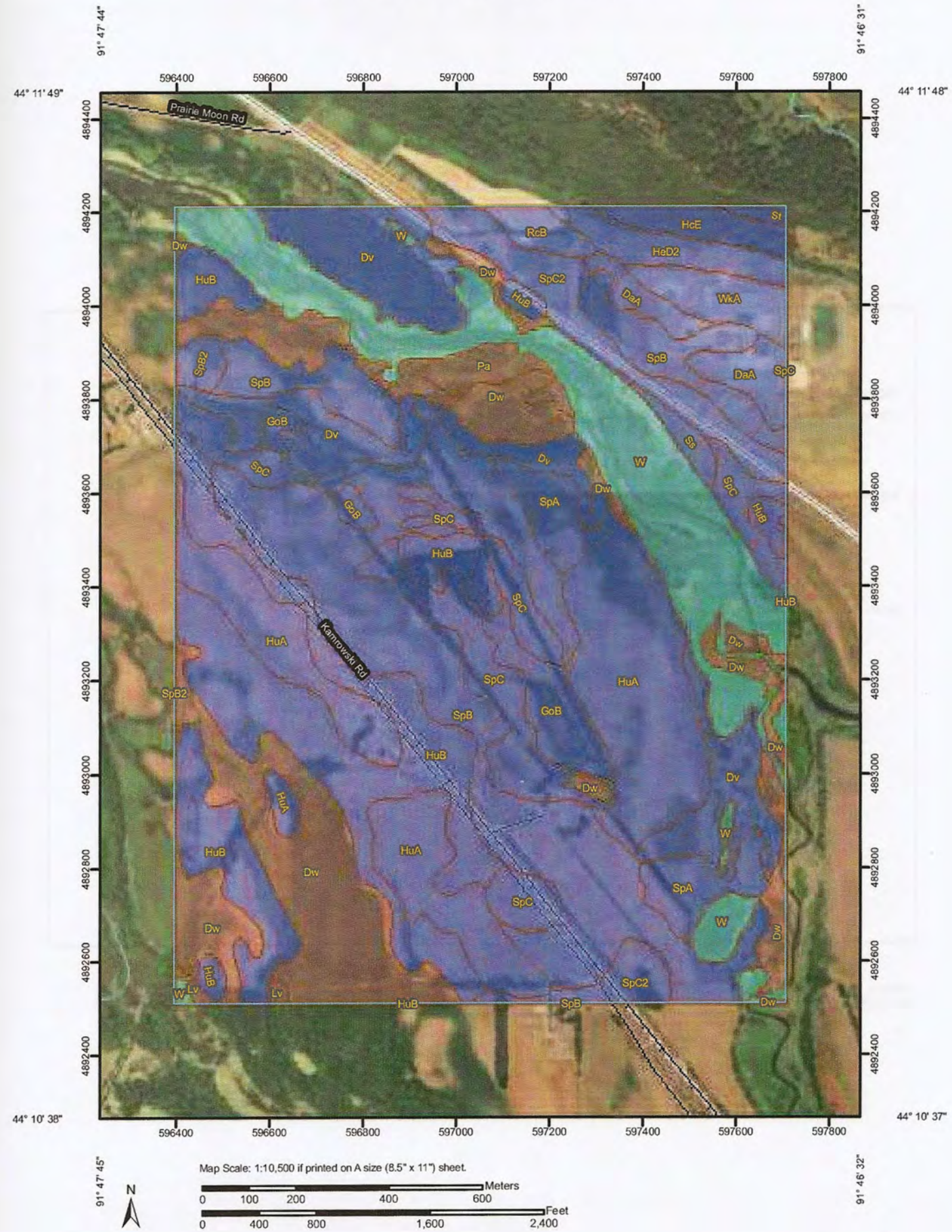
Cities and Villages

- Village
- City

0 850 1700 2550 ft.

N

Scale: 1:8,849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44° 11' 48"
4894400
4894200
4894000
4893800
4893600
4893400
4893200
4893000
4892800
4892600
4892400
Prairie Moon Rd
Kamrowski Rd
Dw
W
Dv
RcB
HcE
St
HeD2
HuB
SpC2
DaA
WkA
SpB2
SpB
Pa
SpB
DaA
SpC
GoB
Dv
Dw
Ss
W
SpC
SpA
GoB
SpC
HuB
HuB
SpC
HuA
Dw
Dw
SpB2
SpC
HuA
SpB
GoB
HuB
Dw
Dv
HuA
W
HuB
HuA
Dw
SpA
SpC
W
Dw
Dw
HuB
W
Lv
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HuB
SpB
SpC2
Dw
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44° 10' 37"
91° 47' 45"
91° 46' 32"
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Meters
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Feet
0 400 800 1,600 2,400

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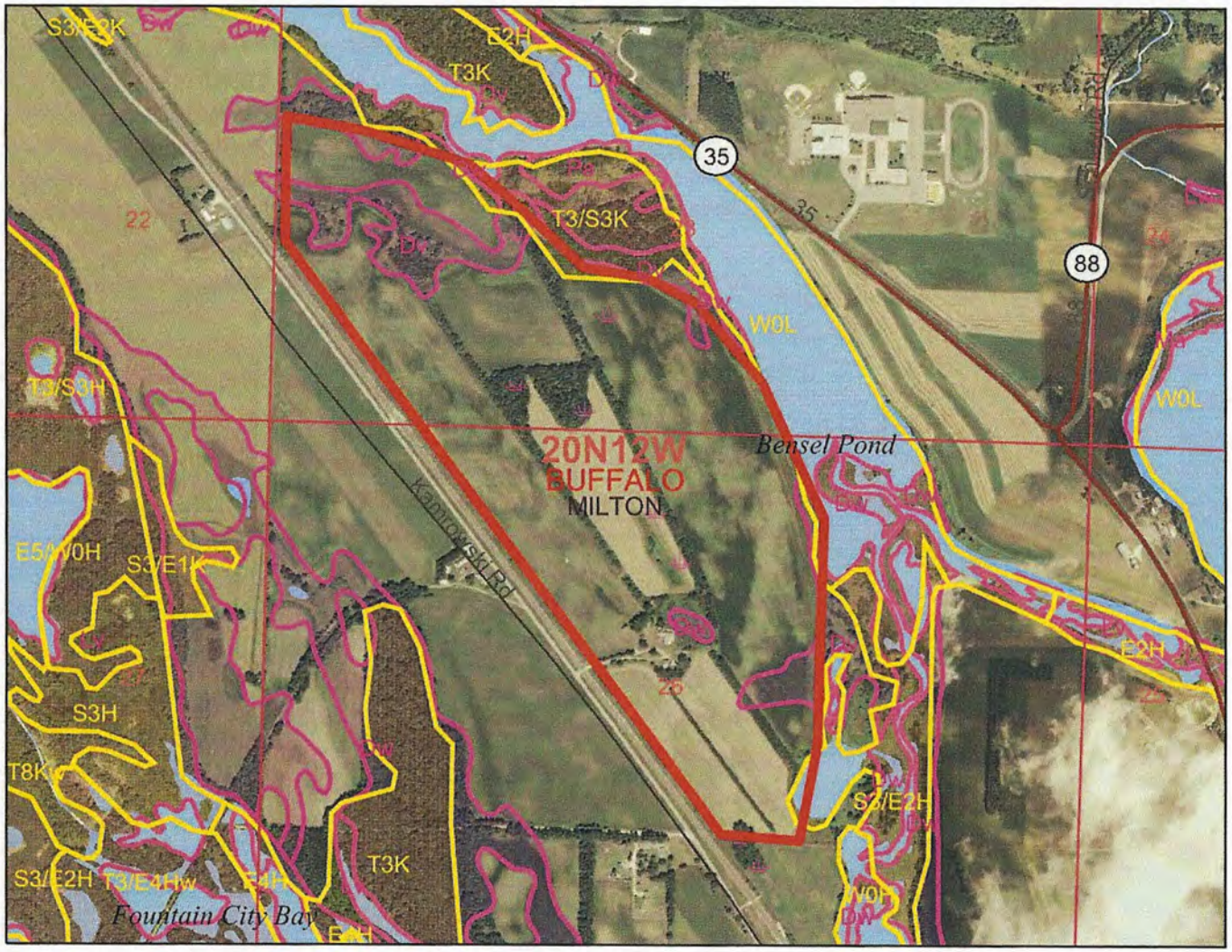

Legend

Major Highways
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- U.S. Highways
- County Roads
- Local Roads

24K County Boundaries

PLSS Townships

PLSS Sections

Civil Towns
- Civil Town

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DNR Wetland Areas
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- Wetland
- Filled or Drained Wetland

Wetland Indicator Soils

24K Open Water

24K Rivers and Shorelines
- Intermittent
- Fluctuating
- Perennial

Cities and Villages
- Village

0 1250 2500 3750 ft.

Scale: 1:12,984