

**HIGHLY ERODIBLE LAND CONSERVATION (HELC) AND
WETLAND CONSERVATION (WC) CERTIFICATION**

ON SITE

(See Page 2 for Nondiscrimination, Privacy Act and Paperwork Reduction Act Statements).

1. Name of Producer <u>Bandal March</u>	2. Tax Identification Number (Last 4 digits) <u>9915</u>	3. Crop Year <u>2014</u>
4. Do you have any interest in land that produces or could produce an agricultural commodity? If "YES", or if you are a Farm Loan Applicant, continue with Item 5. If "NO", and you are not a farm loan applicant, go to Item 12 and sign and date.		YES ☒ NO ☐
5. For farm loan applicants only: Will you conduct any activities for fish production, trees, vineyards, shrubs, building construction, or other non-agricultural purposes on lands for which a wetland determination has not been completed by NRCS or Army Corps of Engineers?		☒
6. Are you a landlord or tenant on any farm that will not be in compliance with HELC and WC provisions? If "YES", enter the farm number or contact your County FSA Office before completing this form. Farm Number: _____ (Contact your County FSA Office if you are unsure of the highly erodible land (HEL) or wetland determinations applicable to your farming interests.)		☒
7. Do any of your landlords refuse to comply with HELC requirements on any farms? If "YES", enter the farm number or contact your County FSA Office before completing this form. Farm Number: _____		☒
8. List affiliated persons with farming interests. See Page 2 for an explanation. Enter "NONE", if applicable. <u>None</u>		
9. During the crop year entered in Item 3 above, or the term of a requested USDA loan, did you or will you plant and produce an agricultural commodity on land for which an HEL determination has not been made?		☒
10. Since December 23, 1985, or during the current crop year, or during the term of a requested USDA loan, has anyone performed, or will anyone perform any activities to:		
A. Create new drainage systems, or conduct land leveling, filing, dredging, land clearing, excavation, or stump removal, that has NOT been evaluated by NRCS? If "YES", indicate year(s): <u>2014</u>		☒
B. Improve or modify an existing drainage system that has NOT been evaluated by NRCS? If "YES", indicate year(s): <u>2014</u>		☒
C. Maintain an existing drainage system that has NOT been evaluated by NRCS? If "YES", indicate the year(s): Note: Maintenance is the repair, rehabilitation, or replacement of the capacity of existing drainage systems to allow for the continued use of wetlands currently in agricultural production and the continued management of other areas as they were used before December 23, 1985. This allows a person to reconstruct or maintain the capacity of the original system or install a replacement system that is more durable or will realize lower maintenance or costs.		☒
11. If "YES" to Items 5, 9, 10A, 10B and/or 10C enter the following for the land the answer applies to:		
A. Farm and/or tract/field number: <u>#8 TR 2687</u>		
B. Activity: <u>Stream Bank Stabilization</u>		
C. Current land use (specify crops): <u>maize past.</u>		
D. County: <u>Buchanan</u>		

A "YES", answer in Items 9 or 10 authorizes FSA to refer this AD-1026 to NRCS. If you check "YES", to Item 10C, NRCS does not have to conduct certified wetland determination. (Contact your County FSA Office if you are unsure about the answers to Items 9 or 10.)

Continuous AD-1026 Certification:

I have read the AD-1026 Appendix and understand and agree that my eligibility for certain USDA program benefits is contingent upon this certification of compliance with highly erodible land conservation and wetland conservation provisions of the Food Security Act of 1985 as amended, and if a determination is made that results in a violation and ineligibility, I agree to refund all applicable payments.

- I agree to the terms and conditions stated on AD-1026 Appendix on all land in which I have or will have an interest and understand that I am responsible for any non-compliance with these provisions.
- I agree that I will file a revised AD-1026 if there are any changes in my operation or activities that may affect compliance with these provisions.
- I understand that affiliated persons are also subject to compliance with these provisions and their failure to comply or file AD-1026 will result in loss of eligibility to persons or enterprises with whom they are affiliated. (See Page 2 of this form for affiliated persons.)

12. Producer's Certification:

I hereby certify that the information on this form is true and correct to the best of my knowledge, and I authorize NRCS to make a HELC and/or certified wetland determination on the tract or farm numbers listed above.

12A. Producer's Signature (By) <u>Bandal March</u>	12B. Title/Relationship (Individual Signing in the Representative capacity) <u>Lynn Boud</u>	12C. Date (MM-DD-YYYY) <u>12/2/13</u>
13. Referral to NRCS (Completed by FSA). Sign and date if a NRCS determination is needed for any reason including a "YES" answer in Item 9, 10A, 10B, or 10C.	13A. Signature of FSA Representative <u>Lynn Boud</u>	13B. Date (MM-DD-YYYY) <u>12/4/13</u>

ORIGINAL - FSA COPY ☐NRCS COPY ☒PRODUCER'S COPY ☐

INSTRUCTIONS FOR ITEM 8 OF AD-1026

The producer requesting benefits on AD-1026 shall attach a list of the applicable affiliated persons with farming interests who are required to file AD-1026. Follow the rules in this table to determine affiliated persons.

IF producer, requesting benefits is a (an) . . .	THEN affiliated persons who must file AD-1026 if they have farming interests are . . .
individual	spouse or minor children with separate farming interests, or who receives benefits under their individual ID number.
NOTE: If the individual filing is a minor child, the father and mother shall be listed as affiliates	estates, trusts, partnerships, and joint ventures in which the individual filing, or the individual's spouse or minor children have an interest.
	corporations in which the individual filing or the individual's spouse or minor children have more than 20% interest.
general partnership	first level members of the entity.
limited partnership	
limited liability company	
joint venture	
state	
revocable or revocable trust	
Indian tribal venture or group	
corporation with stockholders	First level shareholders with more than 20% interest in the corporation.
state	none
church or other charitable organization	
county	
city	
public schools	
corporation with no stockholders	

IMPORTANT: If you are unsure about the applicability of HELC and WC provisions to your land, contact your local NRCS office or FSA office for details concerning the location of any wetland and any restrictions applying to your land according to NRCS determinations before planting an agricultural commodity or performing any drainage or manipulation.

NOTE: The following statement is made in accordance with the Privacy Act of 1974 (5 USC 552a - as amended). The authority for requesting the information identified on this form is 7 CFR Part 12, the Food Security Act of 1985 (Pub. L. 99-198), and the Food, Conservation, and Energy Act of 2008 (Pub. L. 110-246). The information will be used to determine eligibility to receive USDA loans or other program benefits that are subject to highly erodible land and wetland conservation provisions. The information collected on this form may be disclosed to other Federal, State, Local government agencies, Tribal agencies, and nongovernmental entities that have been authorized access to the information by statute or regulation and/or as described in applicable Routine Uses identified in the System of Records Notice for USDA/FSA-2, Farm Records File (Automated) and USDA/FSA-14, Applicant/Borrower. Providing the requested information is voluntary. However, failure to furnish the requested information will result in a determination of ineligibility to receive USDA loans or other program benefits that are subject to highly erodible land and wetland conservation provisions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0560-0185. The time required to complete this information collection is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. The provisions of appropriate criminal and civil fraud, privacy, and other statutes may be applicable to the information provided. **RETURN THIS COMPLETED FORM AD-1026 TO YOUR COUNTY FARM SERVICE AGENCY (FSA) OFFICE.**

U.S. Department of Agriculture (USDA) prohibits discrimination in all of its programs and activities on the basis of race, color, national origin, age, disability, where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, political beliefs, genetic information, reprisal, or because part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 660-6000 (voice and TDD). To file a complaint of discrimination, write to USDA, Assistant Secretary for Civil Rights, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, S.W., Stop 9410, Washington, DC 20250-9410, or call toll-free at (866) 632-9992 (English) or (800) 877-8339 (TDD) or (202) 377-8642 (English Federal-relay) or (800) 845-6136 (Spanish Federal-relay). USDA is an equal opportunity provider and employer.

Date: 12/2/13 12:56 PM

Page: 1

...presentation of

Recording County Office Name

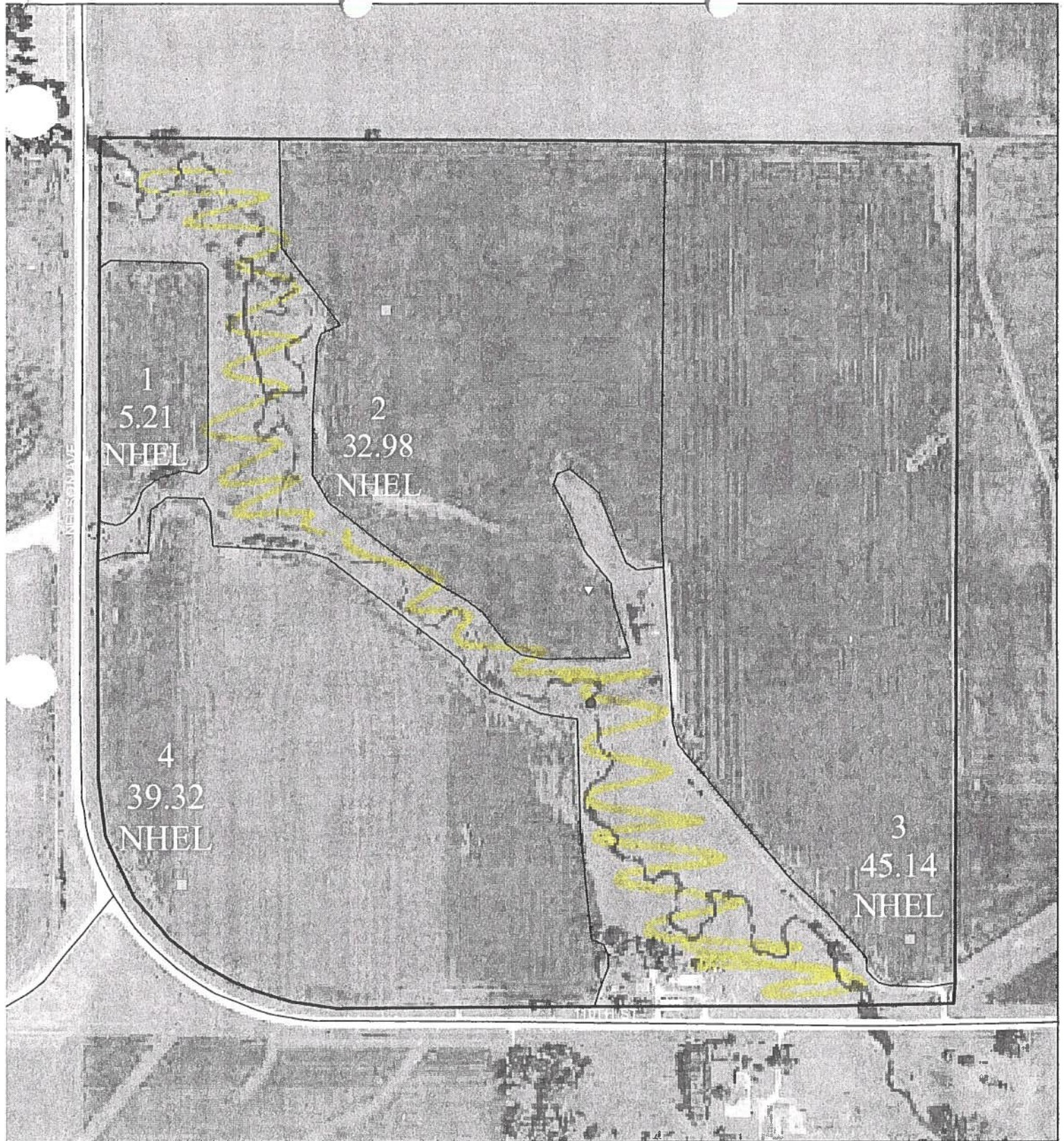
Buchanan, Iowa

2413 110TH ST

STANLEY IA 50671-9620

Telephone: (563) 920-0992

State & County	Number of Farms	Number of Tracts	Farmland	Cropland	DCP Cropland	CRP Cropland	Eff DCP Cropland	Relationship to Farm Tract				Wetland Code							
								Farm	Tract	Producer	Farmland	Cropland	DCP Cropland	CRP Cropland	Eff DCP Cropland	HEL Code	Wetland Code		
Buchanan, IA	2	2	156.13	125.37	125.37	0.0	125.37		8	2687	Operator Owner	RANDAL L MARCH MARGARET J MARCH	152.27	122.65	122.65	0.0	122.65	N	N
Buchanan, IA									4398	22260	Owner/Operator Owner	RANDAL L MARCH LOU ANN MARCH	3.86	2.72	2.72	0.0	2.72	N	N



BUCHANAN
Buffalo
Sec: 5
2012 Crop Year

Farm Number	8	Acres	
Total Area	152.28		
Total CRP	0		
Tract Number	2687	Cropland	122.65

- Legend**
- 2011 Ortho Photography
 - Restricted Use
 - ▽ Limited Restrictions
 - Exempt from Conservation Compliance Provisions
 - CLU Field Boundary
 - ▬ Tract Boundary
 - ▬ Iowa Roads
 - ▬ CRP

USDA FSA maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or the 2011 ortho rectified imagery for Iowa. The producer accepts the data 'as is' and assumes all risks associated with its use. The USDA Farm Service Agency assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside of FSA Programs.

Withheld identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact withheld boundaries and determinations, or contact NRCS.



United States
Department of
Agriculture

United States Department of Agriculture

Natural Resources Conservation Service
507 17th St. SE
Independence, Ia 50644

CERTIFIED MAIL--RETURN RECEIPT REQUESTED

June 24, 2014

Margaret March
2383 110th St.
Stanley, Ia. 50671

Dear Ms. March:

Based upon your recent request for a Certified Wetland Determination, this letter is to notify you that a preliminary wetland determination has been completed for your Farm #8, Tract #2687, Buchanan County, Iowa. This determination was completed in accordance with the National Food Security Act Manual Wetland Identification procedures; title 7 Part 12 of the Code of Federal Regulations and title 7 part 12.5(b) of the Code of Federal Regulations. See the enclosed NRCS-CPA-026 "*Highly Erodible Land and Wetland Conservation Determination*" form for definitions and aerial photo for locations.

The **Preliminary Technical Determination** is: There are wetland(s) or wetland(s) types as listed on the attached form. If you did not request a wetland determination for your entire farm, wetlands may exist in other locations.

The area(s) designated as wetlands are wetlands because:

- Has a predominance of hydric soils,
- Is inundated or saturated by surface or groundwater at a frequency and duration sufficient to support a prevalence of hydrophytic vegetation typically adapted for life in saturated soil conditions, and
- Under normal circumstances does support a prevalence of such vegetation.

For those sites that are labeled as Farmed Wetland (FW) or Farmed Wetland Pasture (FWP): manipulation has occurred prior to December 23, 1985. See the wetland definitions on the NRCS-CPA-026.

This preliminary determination will become final 30 days after receipt of this letter unless you request one of the following options in writing:

- 1) A reconsideration and field visit. During the field visit we will review the basis for our determination, answer any questions you have regarding this preliminary determination, and offer an opportunity for you to provide additional information regarding this determination.
- 2) Request mediation by contacting the Iowa Mediation Service at the address below. Mediation may be used in an attempt to settle your concerns with the preliminary wetland determination.

Iowa Mediation Service
1441 29th Street, Suite 120
West Des Moines, IA 50266

Helping People Help the Land

An Equal Opportunity Provider, Employer and Lender

If you choose to use mediation, the Natural Resources Conservation Service (NRCS) will pay up to one-half of the costs that are appropriate and reasonable which are associated with securing the services of a trained mediator when the services are provided on other than a voluntary basis. The NRCS will have final discretion over what is considered appropriate and reasonable.

- 3) You may waive your rights to mediation and a field review of the preliminary technical determination. This request must be in writing and addressed to Jay T. Mar, State Conservationist, 210 Walnut Street, Room 693, Des Moines, IA 50309. In this case you will immediately be issued a final technical determination and appeal rights to National Appeals Division (NAD) and/or to the FSA County Committee.

After completion of the field visit if one is requested, or following the completion of mediation, a final technical determination will be issued. If you choose to take no action, the Preliminary Technical Determination will become the **Final Technical Determination** 30 days after receiving this notice. Once this determination becomes **Final**, you may appeal to the FSA County Committee, or to the National Appeals Division (NAD), at the addresses listed below within **60** calendar days from the date of receipt of this notice.

Buchanan County FSA County Committee
507 17th St. SE
Independence, Ia 50644
319-334-2543

or

National Appeals Division
Post Office Box 68806
Indianapolis, IN 46268-0806

In order to maintain your eligibility for USDA program benefits, contact your local NRCS office prior to performing any land altering activities (tiling, land clearing, ditching, drainage maintenance, filling, leveling, removal of woody vegetation, or dredging,) in or adjacent to the identified Wetland (W), Farmed Wetland (FW), Farmed Wetland Pasture or Hayland (FWP), or Not Inventoried area(s).

This certified wetland determination/delineation has been conducted for the purpose of implementing the Food Security Act of 1985 as amended. This determination/delineation may not be valid for identifying the extent of the United States Army Corps of Engineers (COE) Clean Water Act jurisdiction for this site. If you intend to conduct any activity that constitutes a discharge of dredged or fill material into wetlands or other waters of the United States including lakes, rivers, intermittent or perennial streams, you should request a jurisdictional determination from the Rock Island District COE office prior to starting your work.

Helping People Help the Land

An Equal Opportunity Provider, Employer and Lender



United States
Department of
Agriculture



Natural Resources Conservation Service
507 17th St. SE
Independence, Ia 50644

If you have any questions about this procedure or determination, please contact me at 563-422-6201 (office) or 563-379-3892 (cell). Also, if anyone else is associated with this farm; tenant, landlord, partner, I encourage you to discuss this determination with them.

Sincerely,

Robert J. Vobora
Area Resource Soil Scientist

Enclosures

Cc: Randall March, 2413 110th St., Stanley, Ia. 50671

Roger Erickson, District Conservationist, Buchanan County NRCS
Buchanan County FSA

Helping People Help the Land

An Equal Opportunity Provider, Employer and Lender



HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION

Name Address:	Margaret March 2383 110 th St, Stanley, Ia. 50671	Request Date:	12/2/2013	County:	Buchanan
Agency or Person Requesting Determination:	FSA	Tract No:	2687	FSA Farm No.:	8

Section I - Highly Erodible Land

Is a soil survey now available for making a highly erodible land determination?	
Are there highly erodible soil map units on this farm?	

Fields in this section have undergone a determination of whether they are highly erodible land (HEL) or not; fields for which an HEL Determination has not been completed are not listed. In order to be eligible for USDA benefits, a person must be using an approved conservation system on all HEL.

<u>Field(s)</u>	<u>HEL(Y/N)</u>	<u>Sodbust(Y/N)</u>	<u>Acres</u>	<u>Determination Date</u>

The Highly Erodible Land determination was completed in the .

Section II - Wetlands

Are there hydric soils on this farm?	Y
--------------------------------------	---

Fields in this section have had wetland determinations completed. See the Definition of Wetland Label Codes for additional information regarding allowable activities under the wetland conservation provisions of the Food Security Act and/or when wetland determinations are necessary to determine USDA program eligibility.

<u>Field(s)</u>	<u>Wetland Label*</u>	<u>Occurrence Year (CW)**</u>	<u>Acres</u>	<u>Determination Date</u>	<u>Certification Date</u>
1	PC		5.2	6/24/2014	7/24/2014
2	PC		33.0	6/24/2014	7/24/2014
3	PC		45.1	6/24/2014	7/24/2014
4	PC		39.3	6/24/2014	7/24/2014
5	NW		28.3	6/24/2014	7/24/2014
5	W		1.3	6/24/2014	7/24/2014

The wetland determination was completed in the field. It was mailed to the person on 6/24/2014.

Remarks: Threatened or Endangered species or their habitat may occur within the area of this determination. Section 7 Consultation (Federal Agency) or Section 10 Consultation (Private Individuals) with the US Fish and Wildlife Service (USFWS) and/or consultation with the Iowa Department of Natural Resources (IDNR) may be required. Proof of completed consultation with the USFWS and/or the IDNR must be submitted to NRCS prior to NRCS providing Technical (TA) or Financial (FA) assistance on projects, or portions thereof, that may affect threatened or endangered species or their habitats.

I certify that the above determinations are correct and were conducted in accordance with policies and procedures contained in the National Food Security Act Manual.

Signature Designated Conservationist	Date
	6/24/2014

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice or TDD). USDA is an equal opportunity provider and employer.

*DEFINITIONS OF WETLAND LABELS

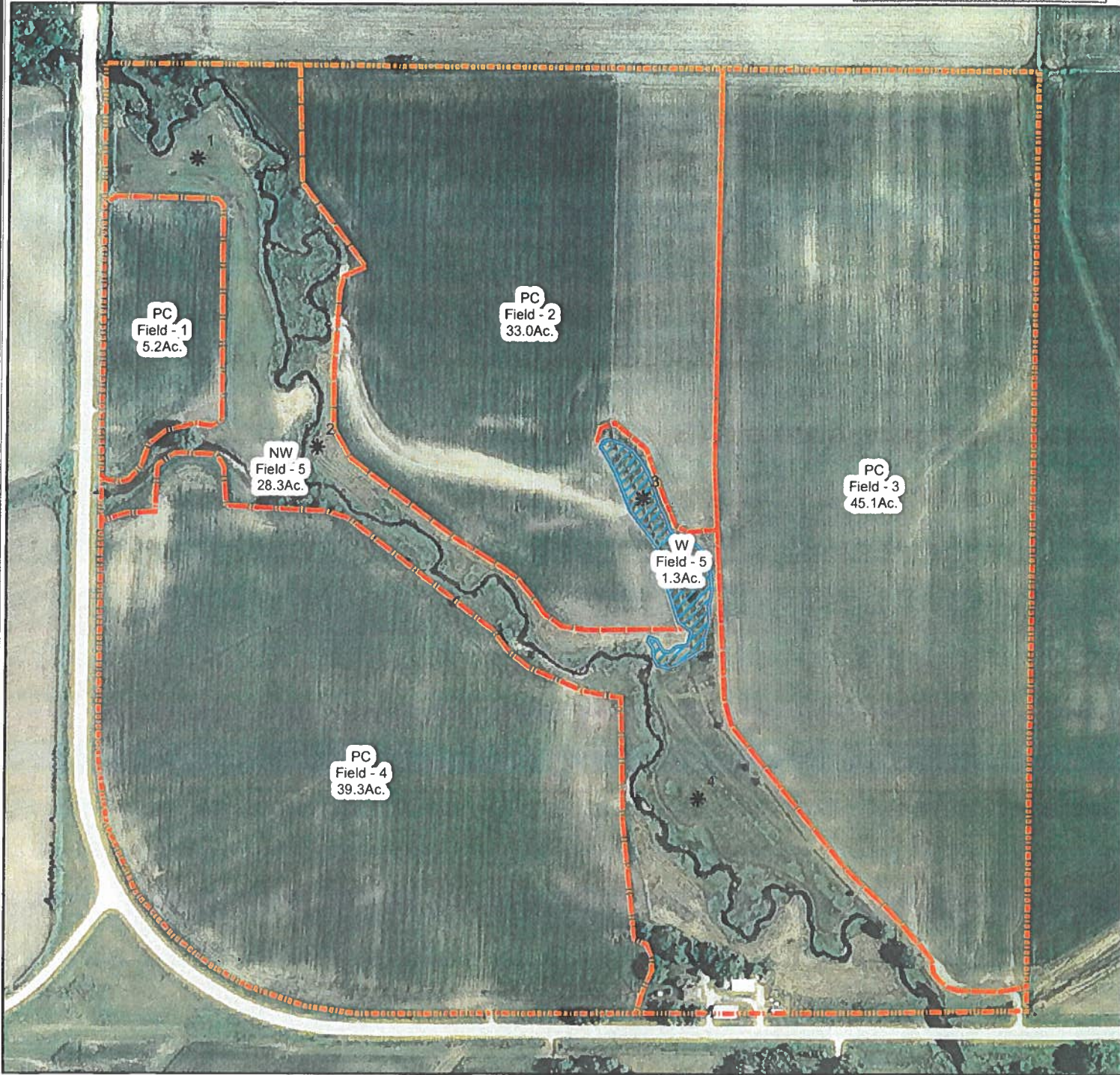
AW	<u>Artificial Wetland</u> : An area that was formerly a non-wetland area under natural conditions but now exhibits wetland characteristics because of the influence of human activities. These areas are exempt from the Food Security Act of 1985, as amended. This label includes irrigation induced wetlands.
CC	<u>Commenced Conversion</u> : A wetland, farmed wetland, farmed wetland pasture, or converted wetland on which the conversion began but was not completed before December 23, 1985, was approved by FSA to continue, and the conversion was completed by January 1, 1995.
CPD	<u>COE Permit with Mitigation</u> : A converted wetland authorized by a permit issued under Section 404 of the Clean Water Act. Production of agricultural commodities is allowed subject to conditions of the permit.
CMW	<u>Categorical Minimal Effect</u> : A wetland that meets specific categories of conversion activities that have been determined by NRCS to have minimal effect, individually and cumulatively, on the functions and values of the wetland and the wetlands in the watershed.
CW	<u>Converted Wetland</u> : A wetland converted between December 23, 1985, and November 28, 1990. Production of an agricultural commodity or additional manipulation of these areas will yield USDA benefit ineligibility. Also, these areas are wetlands converted after December 23, 1985, by a county, drainage district, or similar entity. For these instances, production of an agricultural commodity or forage for mechanical harvest or additional manipulation will cause ineligibility for USDA program benefits.
CW+year	<u>Converted Wetland + (year the conversion occurred)</u> : A wetland converted after November 28, 1990, where the USDA program participant is ineligible for benefits until the wetland is restored or mitigated unless an exemption applies.
CWNA	<u>Converted Wetland Non-Agricultural Use</u> : A wetland converted after November 28, 1990, to a use other than agricultural commodity production. Label not used for certified wetland determinations completed after 2/2008.
CWTE	<u>Converted Wetland Technical Error</u> : A wetland converted or commenced after December 23, 1985, based on an incorrect NRCS determination. This label does not apply to obvious wetlands as defined in the National Food Security Act Manual.
FW	<u>Farmed Wetland</u> : A wetland that was manipulated and planted before December 23, 1985, but still meets inundation or saturation criteria. These areas may be farmed and maintained as documented before December 23, 1985, as long as they are not abandoned (i.e., management or maintenance for commodity production ceased for 5 consecutive years).
FWP	<u>Farmed Wetland Pasture or Hayland</u> : A wetland that is used for pasture or haying, was manipulated and planted before December 23, 1985, but still meets the inundation or saturation criteria. These areas may be farmed and maintained as documented before December 23, 1985, as long as they are not abandoned (i.e., management or maintenance for commodity production ceased for 5 consecutive years).
MIW	<u>Mitigation Exemption</u> : A converted wetland, farmed wetland or farmed wetland pasture of which the acreage, functions and values lost have been compensated for through an NRCS-approved mitigation plan.
MW	<u>Minimal Effect Exemption</u> : A converted wetland that is exempt from the wetland conservation provisions of the Food Security Act of 1985, as amended, based on an NRCS determination that the conversion has or will have a minimal effect, individually and cumulatively, on the functions and values of the wetland and the wetlands in the watershed.
MWM	<u>Mitigation Site</u> : The site of wetland restoration, enhancement, or creation serving as mitigation for the mitigation exemption (MIW) site.
NI	<u>Not Inventoried</u> : An area where no wetland determination has been conducted. Label not used for certified wetland determinations completed after 2/2008.
NW	<u>Non-Wetland</u> : An area that does not contain a wetland. Also includes wetlands converted before December 23, 1985, but a commodity crop was not produced and the area does not meet wetland criteria (not been abandoned).
PC	<u>Prior-Converted Cropland</u> : A wetland converted to cropland before December 23, 1985, and as of December 23, 1985, was capable of being cropped and did not meet farmed wetland hydrology criteria. These areas are not subject to the wetland conservation provisions of the Food Security Act of 1985, as amended, unless further drainage manipulation affects adjacent wetlands.
PC/NW	<u>Prior Converted Cropland/Non-Wetland</u> : An area that contains both PC and NW.
TP	<u>Third-Party Exemption</u> : A wetland converted after December 23, 1985, by a third party who is not associated with the participant, and the conversion is not a result of a scheme or device. A third party does not include predecessors in interest on the tract, drainage districts, or other local government entities.
W	<u>Wetland</u> : An area meeting wetland criteria that was not converted after December 23, 1985. These areas include farmed wetlands and farmed wetland pasture that have been abandoned.
WX	<u>Manipulated Wetlands</u> : A wetland manipulated after December 23, 1985, but the manipulation was not for the purpose of making production possible and production was not made possible. These areas include wetlands manipulated by drainage maintenance agreements.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotope, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Assistant Secretary for Civil Rights, 1400 Independence Avenue, S.W., Stop 9410, Washington, DC 20250-9410, or call toll-free at (866) 632-9992 (English) or (800) 877-8339 (TDD) or (866) 377-8642 (English Federal-relay) or (800) 845-6136 (Spanish Federal-relay). USDA is an equal opportunity provider and employer.

Certified Wetland Determination Map

Land Owner: Margaret M. Ch
 Tract & Farm # T2687 F8
 Legal Description: T. 90 N., R. 8 W., sec. 5
 Certification Office: West Union AO

Certified By: Robert J. Vobora ARSS
 Map Creation Date: 6/23/2014
 Determination County: Buchanan, IA



Legend

- Certified Wetland Determination Boundary
- Wetlands
- Surface Drain
- Berm/Dike
- Subsurface Drain
- Boundary Point
- Data Form Point
- Picture Point

1:4,800

0 200 400 800 1,200 Feet

Wetland Codes

W	Wetland	FWP	Farmed Wetland Pasture
CW	Converted Wetland	MIW	Mitigation Exemption
CW+yr	Converted After 1990	NW	Non Wetland
FW	Farmed Wetland	PC	Prior Converted Cropland
AW	Artificial Wetland		

This Determination is valid for the area within the Dashed Red Line(Determination Boundary)



WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: T 2687 F 8 City/County: Richman Sampling Date: 6/3/14
 Applicant/Owner: Marceareb March State: La Sampling Point: 1
 Investigator(s): Robert J Vobora ARSS Section, Township, Range: 5, T90N, R8W
 Landform (hillslope, terrace, etc.): flood plain Local relief (concave, convex, none): none
 Slope (%): 1 Lat: _____ Long: _____ Datum: WGS-84
 Soil Map Unit Name: 15B5 - Sp. Mvillo - Coland complex, channeled 0+22 NWI classification: U

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed?

Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic?

(If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks:		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
Herb Stratum (Plot size: _____)				Prevalence Index = B/A = _____
1. <u>Field pennycress</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Kentucky bluegrass</u>	<u>21</u>	<u>Y</u>	<u>FAC</u>	
3. <u>brume grass</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features			Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-32	10YR2/1	100					loam	
32-45	10YR4/2	100					sand	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pure Lining, M=Matrix.

Hydric Soil Indicators:

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| ☐ Histosol (A1) | ☐ Sandy Gleyed Matrix (S4) |
| ☐ Histic Epipedon (A2) | ☐ Sandy Redox (S5) |
| ☐ Black Histic (A3) | ☐ Stripped Matrix (S6) |
| ☐ Hydrogen Sulfide (A4) | ☐ Loamy Mucky Mineral (F1) |
| ☐ Stratified Layers (A5) | ☐ Loamy Gleyed Matrix (F2) |
| ☐ 2 cm Muck (A10) | ☐ Depleted Matrix (F3) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Redox Dark Surface (F6) |
| ☐ Thick Dark Surface (A12) | ☐ Depleted Dark Surface (F7) |
| ☐ Sandy Mucky Mineral (S1) | ☐ Redox Depressions (F8) |
| ☐ 5 cm Mucky Peel or Pest (S3) | |

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (Inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

¹Primary Indicators (minimum of one is required; check all that apply)

Secondary Indicators (minimum of two required)

- | | | |
|--|---|--|
| ☐ Surface Water (A1) | ☐ Water-Stained Leaves (B9) | ☐ Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | ☐ Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ True Aquatic Plants (B14) | ☐ Dry-Season Water Table (C2) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Crayfish Burrows (C6) |
| ☐ Sediment Deposits (B2) | ☐ Oxidized Rhizospheres on Living Roots (C3) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Drift Deposits (B3) | ☐ Presence of Reduced Iron (C4) | ☐ Stunted or Stressed Plants (D1) |
| ☐ Algal Mat or Crust (B4) | ☐ Recent Iron Reduction in Tilled Soils (C6) | ☐ Geomorphic Position (D2) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | ☐ FAC-Neutral Test (D5) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Gauge or Well Data (D9) | |
| ☐ Sparsely Vegetated Concave Surface (B8) | ☐ Other (Explain in Remarks) | |

Field Observations:

Surface Water Present? Yes _____ No X Depth (Inches): _____Water Table Present? Yes _____ No X Depth (Inches): _____Saturation Present? Yes _____ No X Depth (Inches): _____

Includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: T2687 F8 City/County: Buchanan Sampling Date: 6/3/14
 Applicant/Owner: Margaret March State: IA Sampling Point: 2
 Investigator(s): Robert J. Vobora ARSS Section, Township, Range: 5, T90N, R8W
 Landform (hillslope, terrace, etc.): Flood plain Local relief (concave, convex, none): none
 Slope (%): 1 Lat: _____ Long: _____ Datum: WGS-84
 Soil Map Unit Name: 1585-Spillville-Coland complex, channeled NWI classification: 4

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed?

Are "Normal Circumstances" present? Yes ☒ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic?

(If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No ☒
 Hydric Soil Present? Yes _____ No ☒
 Wetland Hydrology Present? Yes _____ No ☒

Is the Sampled Area
within a Wetland?

Yes _____ No ☒

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
Herb Stratum (Plot size: _____)				Column Totals: _____ (A) _____ (B)
1. <u>Kentucky Bluegrass</u>	<u>50</u>	<u>Y</u>	<u>FAC</u>	Prevalence Index = B/A = _____
2. <u>giant ragwort</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
3. <u>crucifer</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic
Vegetation
Present?

Yes _____ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-24	10YR 2/1	100					10 cm	
24-30	10YR 4/2	100					sandy sand	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Fore Living, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron-Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)
☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____
 Water Table Present? Yes _____ No X Depth (inches): _____
 Saturation Present? Yes _____ No X Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: creek downcut in area 6-8 feet removes hydrology

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: T 2697 FP City/County: Buchanan Sampling Date: 6/3/14
 Applicant/Owner: Margaret March State: IA Sampling Point: 3
 Investigator(s): Robert J Vobora ARSS Section, Township, Range: 5, T90N, R8W
 Landform (hillslope, terrace, etc.): drainage way Local relief (concave, convex, none): concave
 Slope (%): 1 Lat: _____ Long: _____ Datum: WGS-84
 Soil Map Unit Name: 354 - Ag mollis, ponded NWI classification: 11

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed?

Are "Normal Circumstances" present? Yes ☒ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic?

(If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ☒ No _____
 Hydric Soil Present? Yes ☒ No _____
 Wetland Hydrology Present? Yes ☒ No _____

Is the Sampled Area
within a Wetland?

Yes ☒ No _____

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
Herb Stratum (Plot size: _____)				Column Totals: _____ (A) _____ (B)
1. <u>reed canary grass</u>	<u>90</u>	<u>Y</u>	<u>FACW</u>	Prevalence Index = B/A = _____
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes ☒ No _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-18	10YR 2/1	98	7.5YR 4/3	2	C	pl	clay loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pure Lining, M=Matrix.

Hydric Soil Indicators:

Indicators for Problematic Hydric Soils³:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

- ☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron-Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☒ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches): _____
 Water Table Present? Yes ☐ No ☐ Depth (inches): _____
 Saturation Present? Yes ☐ No ☐ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: area is concave old creek channel

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: T2687 FP City/County: Buchanan Sampling Date: 6/3/14
 Applicant/Owner: Mararet March State: Ia Sampling Point: 4
 Investigator(s): Robert J Vobora ARSS Section, Township, Range: 5, T90N, R8W
 Landform (hilllope, terrace, etc.): flood plain Local relief (concave, convex, none): none
 Slope (%): 1 Lat: _____ Long: _____ Datum: WGS-84
 Soil Map Unit Name: 1585-Spillsville-Coland complex, channeled NWI classification: U

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed?

Are "Normal Circumstances" present? Yes ☒ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic?

(If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present?	Yes _____ No ☒	
Wetland Hydrology Present?	Yes _____ No ☒	
Remarks:		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
Herb Stratum (Plot size: _____)				Prevalence Index = B/A = _____
1. <u>Kentucky bluegrass</u>	<u>50</u>	<u>Y</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0' ___ 4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation' (Explain) 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Stoneweed</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Chenopodium</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes _____ No ☒
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: 4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-11	10YR 2/1	100					loam	
15-20	2.5Y 5/2	90	10YR 5/6	10	c	f	loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☒ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron-Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)
☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C6)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ☒ Depth (Inches): _____Water Table Present? Yes _____ No ☒ Depth (Inches): _____Saturation Present? Yes _____ No ☒ Depth (Inches): _____

Includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Wetland Hydrology Present? Yes _____ No ☒

Remarks: creek in area downcut 6-8 feet removes hydrology

Owner: Margaret March Tract # 2687

Owner: Margaret March Tract # 2687

[illegible]

- 1 = Hydrophytic Vegetation (Observed as different color than crop or forage)
- 2 = Surface Water (Oxbows, depressions, etc.)
- 3 = Flooded or Drowned out Crops, wet/base soil within cropped fields
- 4 = Stressed Crops due to wetness (Crop stress is seen on the ASCS slides as areas of yellowish tinted crop, or sparse canopy coverage of crop, that has been in stress due to wetness)
- 5 = Difference in vegetation within a field due to different planting dates
- 6 = Inclusion of wet areas as set aside (these generally show on slides as areas of close grown legumes/grasses surrounded by, or bordering areas of row crops)
- 7 = Patches of greener vegetation during years of below normal precipitation - use only as a signature for a "dry year" ASCS slide