Minnesota Wetland Conservation Act Online Information

Notice of Application

City of Plymouth Address 3400 Plymouth Blvd. Plymouth, MN, 55447				
1	. PROJECT INFO	ORMATION		
Applicant Name City of Plymouth	Project Name 17625 30 th Place Drainage Mainte		Date of Application 12/27/13	Application Number NA
Type of Application (check all that	apply):			
☐ Wetland Boundary or Type	No-Loss	☐ Exemp	otion [Sequencing
Replacemen	nt Plan	☐ Banking	g Plan	
 17625 30th Place North in Plymouth, MN (SE ¼ Section 19, T118N, R22W). The proposed project area is 1500 square feet. 1. This project qualifies for USACOE RGP-003 Maintenance Activity A and no further correspondence is necessary. 2. This basin is not a DNR Public Water or Public Water Wetland. The City of Plymouth is considering this project to qualify for a No-Loss determination under 8420.0415 Subd. E. 				
2. APPL	ICATION REVIE			with 8420.0255,
Subp. 3 provides notice that an application specified above. A copy of the applications of the application	lication was made to	the LGU under the	ne Wetland Con	
Name and Title of LGU Contact Person Derek Asche Water Resources Manager Comments must be received by (minimum 15 business-day comment period): January 22, 2014				
Address (if different than LGU) 3400 Plymouth Blvd. Plymouth, MN, 55447		Date, time, and lanuary 23, 201 9 AM Plymouth City	4	ion:
Phone Number and E-mail Address 763-509-5526 dasche@plymouthmn.gov		Decision-maker for this application: Staff Governing Board or Council		

BWSR Forms 7-1-10 Page 1 of 2

3. LIST OF ADDRESSEES

	SWCD TEP member: Ms. Stacey Lijewski, HCD, 701 Fourth Avenue South, Suite 700, Minneapolis, MN, 55415-1600 (sent electronically)							
	 BWSR TEP member: Lynda Peterson, BWSR, 520 Lafayette Road North, St. Paul, MN, 55401-1397 (sent electronically) □ LGU TEP member (if different than LGU Contact): □ DNR TEP member: Melissa Doperalski, MN DNR, 1200 Warner Road, St. Paul, MN, 55106 (sent electronically) □ DNR Regional Office (if different than DNR TEP member) Kate Drewry, Area Hydrologist, MN DNR, 1200 Warner Road, St. Paul, MN, 55106 (sent electronically) □ WD or WMO (if applicable): Ms. Laura Jester, Administrator, Bassett Creek Watershed Management Organization, Keystone Waters LLC, 16145 Hillcrest Lane, Eden Prairie, MN 55346 (sent electronically) □ Applicant (notice only) and Landowner (if different): Michael Ericson, 17625 30th Place North, Plymouth, MN, 55447 □ Members of the public who requested notice (notice only): □ Corps of Engineers Project Manager (notice only): Melissa Jenny, Army Corps of Engineers, 180 5th Street East, Suite 700, St. Paul, MN, 55101-1678 (sent electronically) □ BWSR Wetland Bank Coordinator (wetland bank plan applications only) 							
7	For a list of BWSR TEP repres	4. MAILING INFO		reas.pdf				
	For a list of DNR TEP represe			T0				
	Department of Natural Resour							
	NW Region: Reg. Env. Assess. Ecol. Div. Ecol. Resources 2115 Birchmont Beach Rd. NE Bemidji, MN 56601	NE Region: Reg. Env. Assess. Ecol. Div. Ecol. Resources 1201 E. Hwy. 2 Grand Rapids, MN 55744	Central Region: Reg. Env. Assess. Ecol. Div. Ecol. Resources 1200 Warner Road St. Paul, MN 55106	Southern Region: Reg. Env. Assess. Ecol. Div. Ecol. Resources 261 Hwy. 15 South New Ulm, MN 56073				
7	For a map of DNR Administrative Regions, see: http://files.dnr.state.mn.us/aboutdnr/dnr_regions.pdf For a list of Corps of Project Managers: www.mvp.usace.army.mil/regulatory/default.asp?pageid=687 or send to: US Army Corps of Engineers St. Paul District, ATTN: OP-R 180 Fifth St. East, Suite 700 St. Paul, MN 55101-1678 For Wetland Bank Plan applications, also send a copy of the application to: Minnesota Board of Water and Soil Resources							
	Wetland Bank Coordinator 520 Lafayette Road North St. Paul, MN 55155							
		5. ATTACHM	IENTS					
	In addition to the application, land Aerial Photo	list any other attachments:						

BWSR Forms 7-1-10 Page 2 of 2



Minnesota Wetland Conservation Act Notice of Application

Local Government Unit (LGU) City of Plymouth		Address 3400 Plymouth Blvd. Plymouth, MN 55447				
1. PROJECT INFORMATION						
Applicant Name CA Ventures	Project Name CA Ventures Pro	operty	Date of Application 12/19/13	Application Number NA		
Type of Application (check all that apply):						
	☐ No-Loss	Exemp	otion	Sequencing		
Replacement	Plan	☐ Banking	g Plan			
the NE 1/4 of the SE 1/4 of Section 3 on-site. Wetland A is a 1.8 acre, Typ Creek and dominated by a narrow fri	Summary and description of proposed project (attach additional sheets as necessary): Westwood Professional Services performed a wetland delineation on the CA Ventures Property located in the NE 1/4 of the SE 1/4 of Section 36, T118N, R22W, in Plymouth, MN. Two wetlands were delineated on-site. Wetland A is a 1.8 acre, Type 5, PUBGx/R2SB5, flow through wetland associated with Bassett Creek and dominated by a narrow fringe of reed canary grass, sandbar willow, and boxelder. Wetland B is a 0.57 acre, Type 5, PUBGx, shallow open water wetland dominated by open water with an abrupt edge.					
2. APPLI	CATION REVIE	W AND DECIS	SION			
Signing and mailing of this complete Subp. 3 provides notice that an application specified above. A copy of the application of the specified above.	cation was made to	the LGU under the	ne Wetland Cons			
Name and Title of LGU Contact Pers Derek Asche Water Resources Manager	son	Comments must business-day con January 21, 201	nment period):	(minimum 15		
Address (if different than LGU) City of Plymouth 3400 Plymouth Blvd. Plymouth, MN 55447 Date, time, and location of decision: January 22, 2014 9AM Plymouth City Hall				on:		
Phone Number and E-mail Address 763-509-5526 dasche@plymouthmn.gov		Decision-maker Staff Governing Bo	for this application	on:		
Signature: Dul and	ı.		Date: 12/de	0/13		

BWSR Forms 7-1-10 Page 1 of 2

3. LIST OF ADDRESSEES

\mathbf{X}	HCD TEP member: Ms. Stacey Lijewski, HCD, 701 Fourth Avenue South, Suite 700, Minneapolis, MN,
	55415-1600 (sent electronically)
X	BWSR TEP member: Ms. Lynda Peterson, BWSR, 520 Lafayette Rd. N., St. Paul, MN, 55155 (sent
elec	etronically)
	LGU TEP member (if different than LGU Contact):
\mathbf{X}	DNR TEP member: Melissa Doperalski, MN DNR, 1200 Warner Road, St. Paul, MN, 55106 (sent
	electronically)
	DNR Regional Office (if different than DNR TEP member)
	Ms. Kate Drewry, DNR Division of Ecological and Water Resources, 1200 Warner Road, St. Paul, MN,
	55106 (sent electronically)
X	WD or WMO (if applicable): BCWMC, c/o Laura Jester, Keystone Waters, LLC, 16415 Hillcrest Lane,
	Eden Prairie, MN, 55346 (sent electronically)
\mathbf{X}	Applicant and Landowner (if different):
	CA Ventures, 161 North Clark Street, Chicago, IL, 60601
	505 Waterford Park LTD Partnership, c/o Deloitte and Touche, LLP, PO Box 131001, Carlsbad, CA,
	92103-1001
	FSP 505 Waterford Corp, 401 Edgewater Place, Wakefield, MA, 01880
\mathbf{X}	Members of the public who requested notice:
	Kelly Kunst, Westwood Professional Services (sent electronically)
\mathbf{X}	Corps of Engineers Project Manager: Melissa Jenny, Army Corps of Engineers, 180 5th Street East,
	Suite 700, St. Paul, MN, 55101-1678 (sent electronically)
	BWSR Wetland Bank Coordinator (wetland bank plan decisions only)

4. MAILING INFORMATION

>For a list of BWSR TEP representatives: www.bwsr.state.mn.us/contact/WCA areas.pdf

For a list of DNR TEP representatives: www.bwsr.state.mn.us/wetlands/wca/DNR TEP contacts.pdf

Department of Natural Resources Regional Offices:

NW Region:	NE Region:	Central Region:	Southern Region:
Reg. Env. Assess. Ecol.	Reg. Env. Assess. Ecol.	Reg. Env. Assess. Ecol.	Reg. Env. Assess. Ecol.
Div. Ecol. Resources	Div. Ecol. Resources	Div. Ecol. Resources	Div. Ecol. Resources
2115 Birchmont Beach Rd. NE	1201 E. Hwy. 2	1200 Warner Road	261 Hwy. 15 South
Bemidji, MN 56601	Grand Rapids, MN 55744	St. Paul, MN 55106	New Ulm, MN 56073

For a map of DNR Administrative Regions, see: http://files.dnr.state.mn.us/aboutdnr/dnr regions.pdf

For a list of Corps of Project Managers: www.mvp.usace.army.mil/regulatory/default.asp?pageid=687 or send to:

> US Army Corps of Engineers St. Paul District, ATTN: OP-R 180 Fifth St. East, Suite 700 St. Paul, MN 55101-1678

For Wetland Bank Plan applications, also send a copy of the application to:

Minnesota Board of Water and Soil Resources

Wetland Bank Coordinator 520 Lafayette Road North St. Paul, MN 55155	nd 3011 Resources
	ATTACHMENTS
In addition to the application, list any other a Wetland Delineation Report for CA V	ttachments: entures Property dated December 17, 2013 by Westwood
BWSR Forms 7-1-10	Page 2 of 2



WETLAND DELINEATION REPORT

CA Ventures Property

City of Plymouth, Hennepin County, Minnesota December 17, 2013



Prepared For:

CA Ventures 161 North Clark Street Suite 4900 Chicago, IL 60601 Prepared By:



Wetland Delineation Report

CA Ventures Property

City of Plymouth, Hennepin County, Minnesota

Prepared for:

CA Ventures 161 North Clark Street Suite 4900 Chicago, IL 60601

Prepared by:

Westwood Professional Services, Inc. 7699 Anagram Drive Eden Prairie, MN 55344 (952) 937-5150

Project Number: 0002606.00

December 17, 2013

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EXHIBITS

Exhibit 1: Site Location & USGS Topography

Exhibit 2: National Wetlands Inventory & National Hydrography Dataset

Exhibit 3: Soils

Exhibit 4: MnDNR Public Waters & Wetlands

Exhibit 5: Delineated Wetlands

APPENDICES

Appendix A: WCA & USACE Applications

Appendix B: Wetland Determination Data Forms

Appendix C: Wetland Delineation Photographs

1.0 PURPOSE OF REPORT

Westwood Professional Services (Westwood) was retained by CA Ventures to conduct a wetland delineation and obtain agency concurrence on an approximately 12-acre parcel in Plymouth, Minnesota. This narrative, the attached exhibits and data forms constitute the wetland delineation report for the CA Ventures Property (herewith referred to as the Site) submitted pursuant to Minn. Rules 8420.0405. The City of Plymouth is the Local Governmental Unit (LGU) that administers the Minnesota Wetland Conservation Act (WCA). This delineation report provides the required documentation for wetland boundary determinations in conformance with the United States Army Corps of Engineers (USACE) Wetlands Delineation Manual (Environmental Laboratory, Waterways Experiment Station, 1987) and the Regional Supplement to the USACE Wetland Delineation Manual: Midwest Region (US Army Engineer Research and Development Center, 2010).

Applications for WCA Wetland Boundary/Type Determination and USACE Jurisdictional Determination are included in **Appendix A**.

Derek Asche with the City of Plymouth reviewed the delineation in the field and gave preliminary approval of the wetland boundary pending receipt of a Wetland Delineation Report for the Site.

2.0 SITE LOCATION, DESCRIPTION, AND FIELD CONDITIONS

The Site is located in the NE ¼ of the SE ¼ of S. 36, T118N, R22W, city of Plymouth, Hennepin County, Minnesota (**Exhibit 1**). The Site is Hennepin County PIN No. 053-3611822410013 with a physical address of 505 State Hwy No 169, Plymouth, MN 55441 which is located in the northwest quadrant of the intersection of HWY 55 (Olson Memorial Highway) and State Highway 169. The Site consisted of an existing office building and associated parking in the central part of the Site with two large wetlands along the west part. Topography sloped down from an approximately 900-foot elevation in the central part of the Site to 890 in the west part.

At the time of the site review, conditions were overcast with occasional light snow. Antecedent precipitation was normal. **Table 2.1** constitutes the Precipitation Documentation Worksheet from the Minnesota Climatology Working Group.

Table 2.1: Precipitation Documentation Worksheet (County: Hennepin, S36, T118N, R22W) Score using 1981-2010 normal period					
(values are in inches)	first prior month: November 2013	second prior month: October 2013	third prior month: September 2013		
estimated precipitation total for this location:	0.58	4.60	1.32		
there is a 30% chance this location will have less than:	0.90	1.46	2.26		
there is a 30% chance this location will have more than: *	2.24	3.05	4.07		
type of month: dry normal wet	dry	wet	dry		

monthly score	3 * 1 = 3	2 * 3 = 6	1 * 1 = 1
multi-month score: 6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)		10 (Normal)	

3.0 WETLAND DELINEATION METHODOLOGY

Prior to delineating wetland boundaries in the field, Westwood reviewed the National Wetlands Inventory (NWI) for Hennepin County and the National Hydrography dataset (**Exhibit 2**), the Natural Resource Conservation Service (NRCS) Soil Survey Geographic database (SSURGO2) for Hennepin County (2010) (**Exhibit 3**), and the Minnesota Department of Natural Resources (MnDNR) Public Waters and Wetlands Inventory (PWI) for Hennepin County (**Exhibit 4**).

On December 3, 2013, Westwood delineated the wetlands using the level two routine determination method set forth in the USACE Wetlands Delineation Manual. Soils, vegetation, and hydrology data were recorded on data forms and are included in **Appendix B** of this report. Wetlands were classified according to Wetlands of the United States (U.S. Fish and Wildlife Service Circular 39; Shaw and Fredine; 1971) and Wetlands and Deepwater Habitats of the United States (FWS/OBS Publication 79/31; Cowardin et. al. 1979). Common names and scientific names for vegetation identified in this report and on the attached data forms generally correspond with the nomenclature used in the North American Digital Flora: National Wetland Plant List, version 3.0 (http://wetland.plants.usace.army.mil) (Lichvar and Kartesz; 2012).

Wetland boundaries were located using a Trimble GeoXH sub-meter accuracy global positioning unit (GPS) (Exhibit 5).

4.0 RESULTS

4.1 Mapping

The National Wetland Inventory Map (NWI) indicated one PUBGx and one PEM/FO1C wetland on the Site. NHD mapping indicated one waterbody and one flowline (Bassett Creek) crossing the southwest part of the Site (Exhibit 2). The NRCS SSURGO2 for Hennepin County indicated that soils listed in **Table 4.1** are mapped within the Site (Exhibit 3).

Table 4.1. Soil Summary Table					
Map Symbol ¹	Map Unit Name ²	Rating ²	Percent Hydric Soil ³		
L2B, E	Malardi-Hawick complex, 1 to 6 and 18 to 35% slopes	Not hydric	0		
L6A	Biscay loam, 0 to 2% slopes	Predominantly Hydric	98		
L30A	Medo soils, depressional, 0 to 1% slopes	Hydric	100		
L50A	Houghton and Muskego soils, depressional, 0 to 1% slopes	Hydric	100		

M-W	Water, miscellaneous	N/A	N/A
U2A	Udorthents, wet substratum, 0 to 2% slopes	Not Hydric	0

^{1 -} Soils determined using GIS geospatial query clipping the NRCS Soil Survey Geographic (SSURGO2) spatial data by Project boundaries.

A MnDNR Public Watercourse (Bassett Creek) is indicated crossing the southwest part of the Site (Exhibit 4). No other MnDNR Public Waters, Wetlands, or Watercourses are indicated on or adjacent to the Site.

4.2 Delineated Wetland Descriptions

Westwood delineated two wetlands (Wetlands A and B) on the Site. Data forms are provided in Appendix B and photographs in **Appendix C**. The dominant vegetation described below reflects the overall vegetative community of the delineated feature. The dominant vegetation listed on data forms in Appendix B refers to the vegetation at the sample points and can differ from descriptions of overall dominants.

Wetland A was a 1.80-acre, Type 5 (PUBGx/R2SB5) flow-through wetland associated with Bassett Creek that drained south from the Site. Wetland A was generally unvegetated except for a narrow fringe of reed canary grass, scattered sandbar willow and boxelder along the south and west edges that are not actively landscaped. Soils observed below the wetland boundary met the S4 field indicator for hydric soils (Sandy gleyed matrix). Observed hydrology indicators are included on the sample data forms.

Adjacent upland mostly consisted of a maintained landscape of Kentucky bluegrass lawn and scattered mature trees, except for the roadside slope along the southern edge of Wetland A. Soils observed in the upland sample plot consisted of a mix of sand, gravel and clay fill material under an approximately 8-inch layer of sandy loam. Soils were without redoximorphic features and no primary or secondary indicators of wetland hydrology were observed.

The delineated boundary followed an abrupt change in topography and plant communities. Wetland A corresponded to an area of mapped water on the soil survey, a PUBGx wetland on the NWI, a flowline and waterbody on the NHD, and a MnDNR Public Watercourse (Bassett Creek).

Wetland B was a 0.57-acre, Type 5 (PUBGx) shallow open water wetland that extended north from the Site. Wetland B consisted of unvegetated open water with an abrupt, landscaped slope along the waters' edge. Soils observed in the wetland and upland sample plots were similar to those observed for Wetland A. Observed hydrology indicators are included on the sample data forms.

The delineated boundary followed an abrupt change in topography. Wetland B corresponded to portions of an NWI-mapped PEM/FO1C wetland and an area of mapped water on the soil survey. Wetland B was not indicated on NHD or PWI mapping.

² - As indicated in the SSURGO2 database

³ – As indicated in the SSURGO2 database. Where percentages are small (e.g. < 15 %) the hydric soil is likely an inclusion that is not recognized in the map unit name. The absence of a value does not necessarily indicate the absence of hydric soils, but that the relative percentages of included minor soils has not been determined.

4.3 Wetland Delineation Summary

ID	Size (acre)	Туре	Mapped Soils	Vegetation (at sample le	ocations)	Mapped NWI,
				Wetland	Upland	PWI, NHD?
1	1.80	Type 5 (PUBGx/R2 SB5)	Water-Miscellaneous	Bare ground	Kentucky bluegrass	NWI, NHD, PWI
2	0.57	Type 5 (PUBGx)	Water-Miscellaneous	Bare ground	Kentucky bluegrass	NWI

5.0 CONCLUSIONS

Westwood delineated and flagged two wetlands on the CA Ventures Property which were reviewed in the field on December 6, 2013 by the City of Plymouth. Westwood requests that the City of Plymouth, as the LGU, and the USACE process the enclosed applications (Appendix A).

6.0 LITERATURE CITED

- Cowardin, L.M., V.M. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service, Biological Services Program, Washington, DC, USA. FWS/OBS-79/31. 103pp.
- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Lichvar, R.W. 2013. The National Wetlands Plant List. 2013 Wetland Ratings. Phytoneuron: in Press.
- North American Digital Flora: National Wetland Plant List, Version 3.0 (http://wetland.plants.usace.army.mil) (Lichvar and Kartesz; 2012).
- Shaw, S.P. and C.G. Fredine. 1971. Wetlands of the United States. U.S. Fish and Wildlife Circular 39. U.S. Department of the Interior, Washington, D.C. 67 pp.
- U. S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, ed. J.S. Wakeley, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-08-27. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- United States Department of Agriculture, Natural Resources Conservation Service, 2010. Field Indicators of Hydric Soils in the United States, Verson 7.0. C.M. Vasilas, G.W. Hurt, and C.V. Noble (eds.). USDA NRCS, in cooperation with the National Technical Committee for Hydric Soils.

7.0 CERTIFICATION

We certify that, to the best of our knowledge and belief, the wetland delineation completed for this Site is consistent with current wetland delineation practices and guidelines. We have the specific qualifications, education, training, and experience to complete wetland delineations and determinations in accordance with federal and state requirements.

Sincerely,

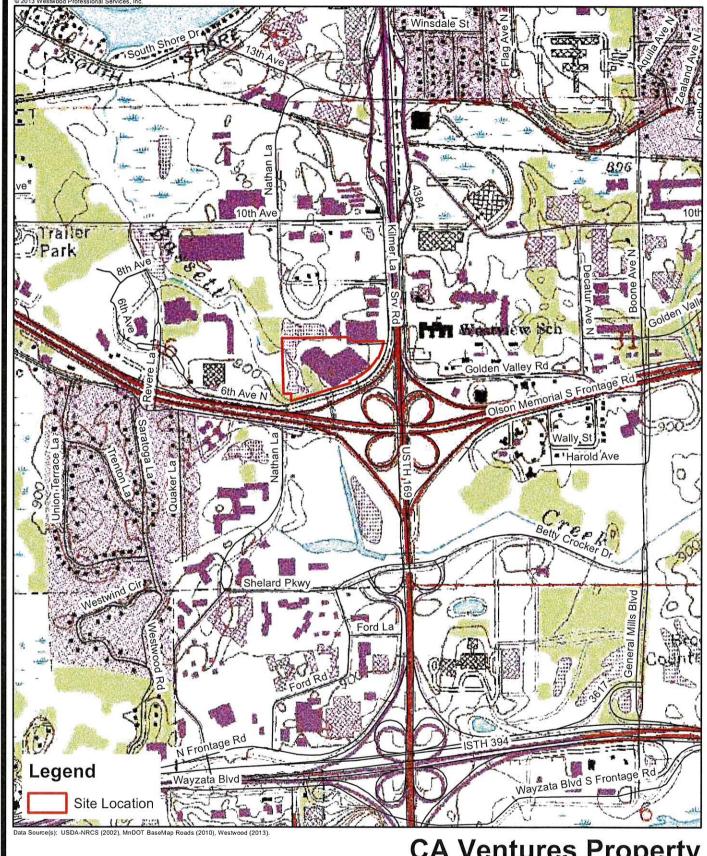
WESTWOOD PROFESSIONAL SERVICES

Kelly **\$**. Kunst, WDC, PWS Sr. Environmental Scientist

Professional Wetland Scientist No. 1757

MN Certified Wetland Delineator No. 1114

Exhibits



CA Ventures Property

Plymouth, Minnesota

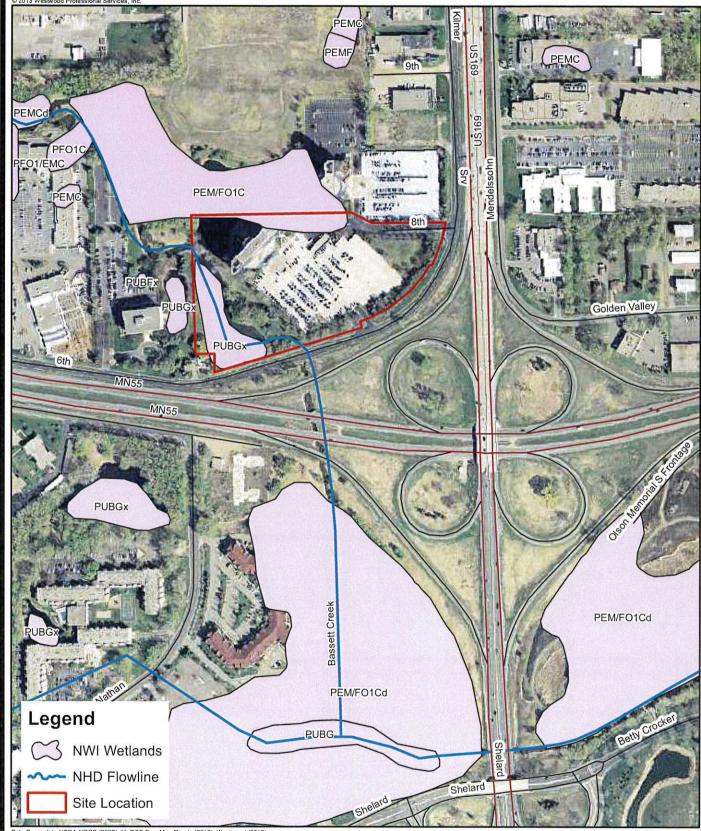


PHONE 952-937-5150 FAX 952-937-5822 TOLLFREE 1-888-937-5150



Site Location & USGS Topography

EXHIBIT 1



Data Source(s): USDA-NRCS (2002), MnDOT BaseMap Roads (2010), Westwood (2013).

CA Ventures Property

Plymouth, Minnesota National Wetlands Inventory & National Hydrography Dataset EXHIBIT 2

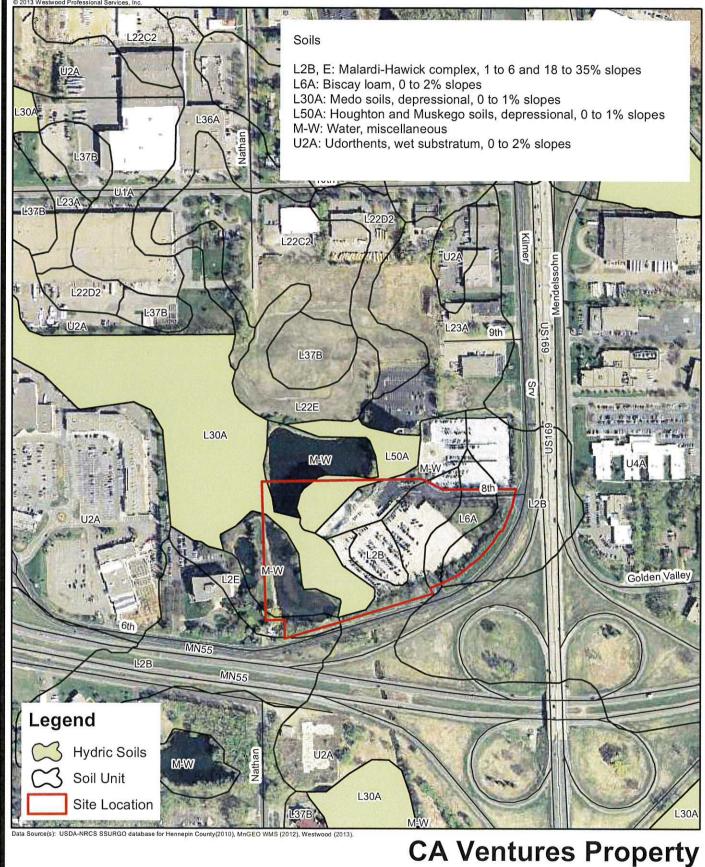
Westwood

Westwood Professional Services, Inc. 7699 Anagram Drive

PHONE 952-937-5150 FAX 952-937-5822 TOLL FREE 1-888-937-5150

www.westwoodps.com





Plymouth, Minnesota

Westwood

Westwood Professional Services, Inc.

Feet 400

Soils **EXHIBIT 3**

?\0002606.00\CAventures_soil_01A.mxd 12/17/2013 11:15:12 AM

CA Ventures Property

Plymouth, Minnesota

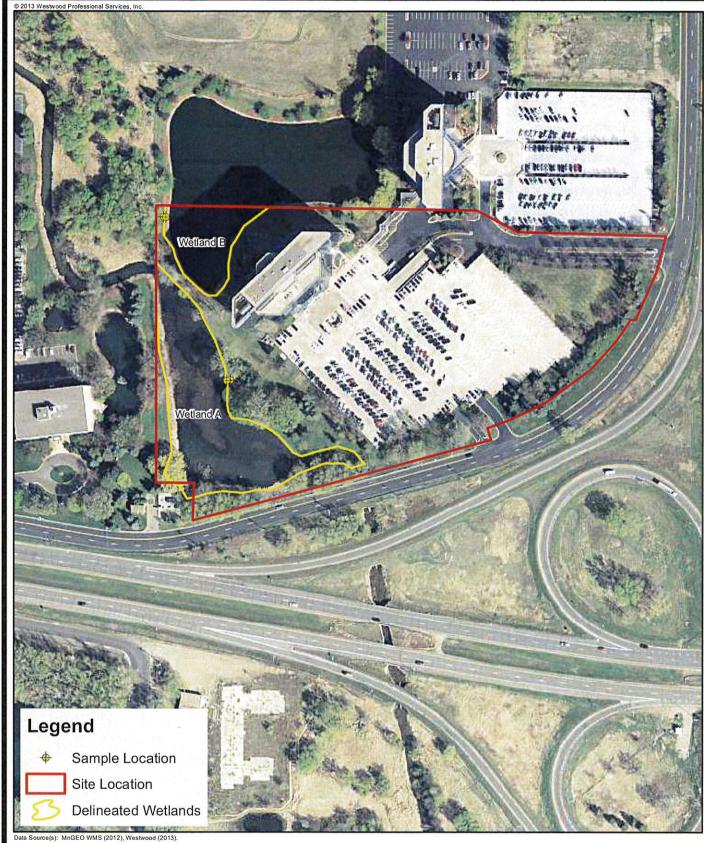


Westwood Professional Services, Inc. 7699 Anagram Drive

PHONE 952-937-5150 FAX 952-937-5822 TOLL FREE 1-888-937-5150



MnDNR Public Waters & Wetlands
EXHIBIT 4



Westwood

Westwood Professional Services, Inc. 7699 Anagram Drive

PHONE 952-937-5150 FAX 952-937-5822 TOLL FREE 1-888-937-5150



CA Ventures Property
Plymouth, Minnesota

Delineated Wetlands

EXHIBIT 5

Map Document: P:\0002606.00\gis\CAventures_wtld_01A.mxd 12/17/2013 11:24:58 AM

Appendix A

WCA/USACE Applications

CA Ventures Property

City of Plymouth, Hennepin County, Minnesota

Minnesota Wetland Conservation Act Application for Approval of Wetland Type and Boundary

1. Project/Site Information

Project/Site Name: CA Ventures Property Local Government Unit: City of Plymouth 505 State Hwy 169, Plymouth, MN 55441 Location (address and/or T, R, Sec.): SE 1/4 of S36, T118N, R22W

2. Applicant Information

Applicant Name: CA Ventures

Address: 161 North Clark Street

Suite 4900

City, State, Zip: Chicago, IL 60601

E-mail:

Phone:

3. Agent/Consultant Information

Company Name (if applicable) Westwood Prof. Serv Contact Person: Kelly Kunst

Address: 7699 Anagram Drive

City, State, Zip: Eden Prairie, MN 55344

E-mail:kelly.kunst@westwoodps.com

Phone: (952) 906-7421

4. Description of Request

Check all that apply:

Wetland Boundary (must attach wetland delineation report)

☑ Wetland Type (Eggers & Reed and/or Circular 39 type)

5. Signature

By signature below, the applicant requests a determination from the Local Government Unit under Minnesota Rules 8420.0225 on the submitted wetland boundary and type information in this application. The applicant also affirms that they are the owner of the subject property or have permission from the landowner to pursue this determination.

Applicant or Authorized Agent Signature

12/17/2013

Date

Important Notes:

- The applicant may be required to submit multiple copies of the report/information to the LGU. The LGU may require the applicant to submit copies directly to Technical Evaluation Panel Members. Check with your LGU regarding their submittal requirements.
- The LGU decision must be made in compliance with Minnesota Statutes, section 15.99.

For LGU use only

Date Received:





Request for Corps of Engineers Wetland Delineation Review Please enter the following general information about the property under review:

Name of property owner
Fsp 505 Waterford Corporation
Property Address (No. & Street, City, State, Zip Code)
505 State Hwy No 169, Plymouth, MN 55441
Lat. 44.9848 • Long. 93.4044 • (decimal degrees)
County Hennepin
Location: SE 1/4 Section 36 Township 118N Range 22W
Size of review area /Z acre(s)
By submission of this wetland delineation report I am requesting that the U.S. Army Corps of Engineers, St. Paul District provide me with the following (check only one box): Wetland Delineation Concurrence. Concurrence with awetland delineation is a written notification from the Corps concurring, not concurring, or commenting on the wetland boundaries delineated on a property. Under this request, the Corps will not address the jurisdictional status of the wetlands on the property, only the boundaries of the resources within the review area.
Preliminary Jurisdictional Determination. Preliminary Jurisdictional Determination. A preliminary jurisdictional determination is a nonbinding written indication that there may be waters of the United States, including wetlands, on a parcel or indications of the approximate location(s) of waters of the United States of wetlands on a parcel. For purposes of computation of impacts and compensatory mitigation requirements a permit decision made on the basis of a preliminary jurisdictional determination will treat all waters and wetlands in the review area as if they are jurisdictional waters of the U.S. Preliminary jurisdictional determinations are advisory in nature and may not be appealed.
Approved Jurisdictional Determination. An approved jurisdictional determination is an official Corps determination that jurisdictional waters of the United States or navigable waters of the United States, or both are either present or absent on the property. An approved jurisdictional determination precisely identifies th limits of those waters on the project site determined to be jurisdictional under the Clean Water Act or Rivers and Harbors Act. Approved jurisdictional determinations can be relied upon by the affected party for a period of five years. An approved jurisdictional determination may be appealed through the Corps' administrative appeal process.
In order for the Corps to process your request, the wetland delineation must be prepared in accordance with the 1987 Corps of Engineers Wetland Delineation Manual, any approved Regional Supplements to the 1987 Manual, and the Guidelines for Submitting Wetland Delineations in Minnesota and Wisconsin (http://www.mvp.usace.army.mil/regulatory/).
Requestor // Date 12/17/2013
Name (typed) Kelly Kunst

Appendix B

Wetland Determination Data Forms

CA Ventures Property

City of Plymouth, Hennepin County, Minnesota

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site CA Ventures	City/County:	Henner	oinSampling	g Date: 12/3/2013
Applicant/Owner: CA Ventures	Sta	ate: Minne	sota Sampling	Point: SP A-1 wet
Investigator(s): K. Kunst		Section, Townsh	ip, Range:	S36, T118N, R22W
Landform (hillslope, terrace, etc.): flat	Lo	ocal relief (conca	ve, convex, none):	none
Slope (%): 0-1% Lat: 44.985029			52 Datum:	
Soil Map Unit Name Water (miscellaneous)			Classification:	
Are climatic/hydrologic conditions of the site typical for thi	s time of the ye		(
Are vegetation , soil , or hydrology		cantly disturbed?		mal circumstances"
Are vegetation , soil , or hydrology		lly problematic?	ALC HOLL	present? Yes
SUMMARY OF FINDINGS		• • • • • • • • • • • • • • • • • • • •	(If needed, expla	ain any answers in remarks.)
Hydrophytic vegetation present? Y	T T		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	and any another in remarkery
Hydric soil present?	ls t	the sampled are	a within a wetland	? Y
Indicators of wetland hydrology present? Y		es, optional wetla		*
		e, optional front		
Remarks: (Explain alternative procedures here or in a sep	parate report.)			
VEGETATION Use scientific names of plants.			T	
and the second of the second o	solute Domin		Dominance Tes	
	Cover Specion Y		Number of Domina that are OBL, FAC	
2		FAC	8 "	
3			Total Number of Species Acros	
4			Percent of Domina	to many that
5				W, or FAC: 100.00% (A/B)
	10 = Total C	Cover		
Sapling/Shrub stratun (Plot size: 15)			Prevalence Inde	ex Worksheet
1			Total % Cover of	f:
2	0/1		OBL species	0 x 1 = 0
3			FACW species	
4			FACILIA PAGE	
5	0 = Total C	Cover	FACU species UPL species	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Herb stratum (Plot size: 5)	Total C	over	Column totals	10 (A) 30 (B)
1			Prevalence Index	
2		-	Frevalence inde.	X - B/A
3	No.		Hydrophytic Ve	getation Indicators:
4				r hydrophytic vegetation
5			X Dominance t	
6			X Prevalence in	ndex is ≤3.0*
7			Morphogical	adaptations* (provide
8	3		supporting da	ata in Remarks or on a
9			separate she	et)
10			22	hydrophytic vegetation*
	0 = Total C	over	—— (explain)	
Woody vine stratum (Plot size: 30)				soil and wetland hydrology must be
2			Hydrophytic	ess disturbed or problematic
	0 = Total C	Cover	vegetation	-
	- Total C		present?	Y
Remarks: (Include photo numbers here or on a separate s	sheet)		1	
Sample plot was 100% bare ground.	18			

	_

Sampling Point: SP A-1 wet

Profile Descr	ription: (Descri	be to the	e depth n	eeded t	o docun	nent the	indicato	r or confirm	the absence	of indicators.)
Depth	Matrix				dox Feat					
(Inches)	Color (moist)	%	Color (noist)	%	Type*	Loc**	Te	xture	Remarks
0-24	N5/0	100						S		gravels
									William Control	
*Type: C = Co	oncentration, D =	Depletion	on. RM =	Reduce	d Matrix.	MS = Ma	asked Sa	nd Grains.	**Location	: PL = Pore Lining, M = Matrix
	Indicators:		.,,				201104 04			ematic Hydric Soils:
	sol (A1)			K Sar	dy Gleye	ed Matrix	(S4)			dox (A16) (LRR K, L, R)
	Epipedon (A2)		-		dy Redo		()		rk Surface (S7	
	Histic (A3)		-		oped Mat				1100	Masses (F12) (LRR K, L, R)
	ogen Sulfide (A4	.)	-		my Muck		l (F1)			rk Surface (TF12)
	fied Layers (A5)		-		my Gleye	55	53 (55)		ner (explain in	
	Muck (A10)		-		leted Ma				Now of construction was	
	eted Below Dark	Surface	(A11)		ox Dark		(F6)			
	Dark Surface (A		-		leted Da		2 1 20 7	*Ind	icators of hydr	ophytic vegetation and weltand
—— Sand	y Mucky Mineral	(S1)	-	Rec	ox Depre	essions (F8)			be present, unless disturbed or
5 cm	Mucky Peat or F	Peat (S3)	-							problematic
Restrictive L	ayer (if observe	d):								*************************************
Type:	., (0.000.10	۵,						Hvdri	ic soil presen	t? Y
Depth (inches):							,	. с сс р. ссс	
Remarks:						()				
HYDROLO										
- 7	rology Indicator									
	ators (minimum o	of one is	required;	check a				8		dicators (minimum of two required)
X Surface W				-		Fauna (B	200			Soil Cracks (B6)
X High Wate						uatic Plan				Patterns (B10)
X Saturation Water Ma	N28 - 82 -)		Odor (C1		The second secon	son Water Table (C2) Burrows (C8)
	Deposits (B2)				(C3)	Knizospi	neres on	Living Roots		n Visible on Aerial Imagery (C9)
Drift Depo						e of Redu	iced Iron	(C4)		or Stressed Plants (D1)
	or Crust (B4)							illed Soils		phic Position (D2)
Iron Depos					(C6)					utral Test (D5)
Inundation	Visible on Aerial	Imagery	(B7)		Thin Muc	k Surfac	e (C7)			3 2
Sparsely \	egetated Concav	ve Surfac	e (B8)	1	Gauge o	r Well Da	ta (D9)			
Water-Sta	ined Leaves (B9)				Other (E:	xplain in l	Remarks)			
Field Observ	ations:				77					
Surface water	present?	Yes	X	No		Depth (in	nches):	3	.	
Water table pr		Yes	X	No		Depth (in		0	22	dicators of wetland
Saturation pre		Yes	X	No		Depth (in	nches):	0	_ hy	ydrology present? Y
(includes capi	llary fringe)									
Describe reco	rded data (strea	m gauge	, monitori	ng well,	aerial ph	otos, pre	vious ins	pections), if	available:	
Demorties	esas-omogico-co-co-co-co-co-co-co-co-co-co-co-co-c									
Remarks:										

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site CA Ventures	City/	County:	Hennep	inSampling	g Date:12/3/2013
Applicant/Owner: CA Ventures		State:	Minnes	sota Sampling	Point: SP A-1 up
Investigator(s): K. Kunst		Section	S36, T118N, R22W		
Landform (hillslope, terrace, etc.): hillslop	ре	Local re	elief (concav	ve, convex, none):	convex
Slope (%): 2-6% Lat: 44.985029		Long:	93.4049	52 Datum:	NAD83
Soil Map Unit Name Medo soils (depressional)			1WI	Classification:	
Are climatic/hydrologic conditions of the site typical for	this time	of the year?	Υ (If no, explain in rem	narks)
Are vegetation, soil, or hydrolog	gy	significantly	disturbed?	Are "norn	nal circumstances"
Are vegetation, soil, or hydrolog			blematic?	DELES Wilson	present? Yes
SUMMARY OF FINDINGS	8 			(If needed, expla	ain any answers in remarks.)
Hydrophytic vegetation present? Y					
Hydric soil present? N		Is the sa	ampled area	a within a wetland	? N
Indicators of wetland hydrology present? N		f yes, op	tional wetlar	nd site ID:	()
	- congrate r				
Remarks: (Explain alternative procedures here or in a	separate i	eport.)			
	extreg				
VEGETATION Use scientific names of plant	1888 N.		*	Dominance Tes	4 18/
CONTROL OF THE CONTRO	Absolute % Cover	Dominant Species	Indicator Staus	The second of th	
1 Populus deltoides	20	Y	FAC	Number of Domina that are OBL, FAC	SCORE CONTROL DE CONTROL CONTR
2			1,70	Total Number of	,
3				Species Acros	
4				Percent of Domina	77 700 10
5				that are OBL, FAC	
_	20 =	= Total Cover			
Sapling/Shrub stratun (Plot size: 15)				Prevalence Inde	
1				Total % Cover of	
2				OBL species	$\frac{0}{0}$ x 1 = $\frac{0}{0}$
3				FACW species _ FAC species	
5		-		FACU species	
	0 :	= Total Cover		UPL species	$\frac{20}{0} \times 5 = \frac{80}{0}$
Herb stratum (Plot size: 5)		Action of the second		Column totals	120 (A) 380 (B)
1 Poa pratensis	80	Y	FAC	Prevalence Inde	
2 Lolium perenne	20	<u> </u>	FACU	Trovalorio in ac	- O
3	(F)			Hydrophytic Ve	getation Indicators:
4					r hydrophytic vegetation
5				X Dominance t	est is >50%
6				Prevalence i	ndex is ≤3.0*
7					adaptations* (provide
8					ata in Remarks or on a
9				separate she	
10	100 =	= Total Cover		10	hydrophytic vegetation*
Woody vine stratum (Plot size: 30)		= Total Cove		(explain)	
1					soil and wetland hydrology must be less disturbed or problematic
				Hydrophytic	
	0 =	= Total Cover		vegetation	,
	ŭ	10.00. 22		present?	<u> </u>
Remarks: (Include photo numbers here or on a separa	te sheet)				
et et n	65%				

SOIL Sampling Point: SP A-1 up

Profile Desc	cription: (Descri	be to the	e depth needed t	o docun	nent the	indicato	r or confirm	the absence	of indicators.)
Depth	<u>Matrix</u>		<u>Re</u>	dox Feat	<u>ures</u>				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Te	xture	Remarks
0-8	10YR 2/1	100					SL		
8-24	10YR 4/4	100					mixed S. (C, and gravel	likely fill material
	10111111	100					mixed o, v	o, and graver	incly in material
								a-co-sum - All Colonia	
*T C = C	<u> </u>			1.84	<u> </u>			441	DI O DOS PERSONAL LA CARROLLA CONTRACTOR DE
	Concentration, D =	Depletion	on, RM = Reduce	d Matrix,	MS = Ma	asked Sa			PL = Pore Lining, M = Matrix
	il Indicators:								ematic Hydric Soils:
-	isol (A1)			ndy Gleye		(S4)			dox (A16) (LRR K, L, R)
	ic Epipedon (A2)			ndy Redo				k Surface (S7	
	ck Histic (A3)			pped Ma					Masses (F12) (LRR K, L, R)
	rogen Sulfide (A4	191		my Muck			Ver	y Shallow Dai	k Surface (TF12)
	itified Layers (A5)		Loa	my Gleye	ed Matrix	(F2)	Oth	er (explain in	remarks)
-	n Muck (A10)			oleted Ma	ıtrix (F3)				
Dep	leted Below Dark	Surface	(A11)Rec	lox Dark	Surface	(F6)			
	ck Dark Surface (/		Dep	oleted Da	rk Surfac	ce (F7)	*Indi	cators of hydr	ophytic vegetation and weltand
San	dy Mucky Minera	l (S1)	Rec	ox Depre	essions (F8)			e present, unless disturbed or
5 cr	n Mucky Peat or F	Peat (S3)) —						problematic
Restrictive	Layer (if observe	d):							
Type:	Layer (II observe	ω,.					Hydri	c soil presen	t? N
Depth (inche	ie).			-11-20-0-1-11-1	ř.		Hyun	c son presen	
Remarks:	<u> </u>								
HYDROLO	OGY								
	drology Indicato					***************************************			
Total 80 Vant (2007)				W	4.4				
	cators (minimum o	of one is	required; check a		CC - 5000501		į		licators (minimum of two required)
	Water (A1)		Q 1-1-1-1-1		Fauna (B	1000			Soil Cracks (B6)
	ter Table (A2)		-	23	uatic Plan				Patterns (B10)
Saturatio	S SEE A MAIN COLUMN					Odor (C1			son Water Table (C2)
10.000000000000000000000000000000000000	arks (B1) t Deposits (B2)				Rhizospi	neres on	Living Roots		Burrows (C8)
	osits (B3)		η.	(C3)	of Dodu	ood Iron	(C4)		n Visible on Aerial Imagery (C9)
Variation of the second	t or Crust (B4)			Chart so		ced Iron	ika di kacaman - 1		or Stressed Plants (D1)
	osits (B5)			(C6)	ron Redu	ction in Ti	lled Soils		phic Position (D2)
Contracting Section 2	on Visible on Aerial	Imagen	(B7)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ck Surface	0 (07)		FAC-Net	tral Test (D5)
	Vegetated Concar		A maken	Cal	r Well Da				
	ained Leaves (B9)			되었는 것으로 먹었는다		(D9) Remarks)			
				Other (E.	γριαιί ΙΙΙ Ι	veillaiks)			
Field Obser		V			D	1			
Surface water	AND THE PROPERTY OF THE PROPER	Yes	No	X	Depth (in			21000	
Water table		Yes	No No	X	Depth (in	meaning and a			licators of wetland
Saturation pr		Yes	No	X	Depth (in	icnes):		. h	drology present? N
(includes car				16 70 17	760	74 12			
Describe rec	orded data (strea	m gauge	, monitoring well,	aerial ph	otos, pre	vious ins	pections), if	available:	
.						***************************************			
Remarks:									

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site CA Ventures	City/County:	Hennep	inSampling	g Date:12/3/2013		
Applicant/Owner: CA Ventures		Minnes		Point: SP B-1 wet		
Investigator(s): K. Kunst	Sect	Section, Township, Range: S36, T118N				
Landform (hillslope, terrace, etc.): depression		Local relief (concave, convex, none): concar				
Slope (%): 0-1% Lat: 44.985786			B8 Datum:			
Soil Map Unit Name Water (miscellaneous)				PEM/FO1C		
Are climatic/hydrologic conditions of the site typical for this ti	ime of the year?		The contract of the contract o			
Are vegetation, soil, or hydrology		disturbed?				
Are vegetation , soil , or hydrology			Are nom	nal circumstances" present? Yes		
SUMMARY OF FINDINGS		obioinatio.	(If peeded expla	ain any answers in remarks.)		
Hydrophytic vegetation present?			(II rieeded, expia	in any answers in remarks.)		
Hydric soil present?	la tha a	ampled are	a within a watland	2 V		
	1		a within a wetland			
Indicators of wetland hydrology present? Y	if yes, or	otional wetiar	nd site ID:			
Remarks: (Explain alternative procedures here or in a separa	ate report.)					
VECTATION				<u></u>		
VEGETATION Use scientific names of plants.		Dec Harris Control	Daminanaa Taa	4 Washahaat		
Absolu <u>Tree Stratum</u> (Plot size: 30) % Cov		Indicator Staus	Dominance Tes			
1	vei Opecies	Otaus	Number of Domina that are OBL, FAC			
2			Total Number o			
3	-		Species Across			
4			Percent of Domina			
5			that are OBL, FAC	•		
0	= Total Cover			* *		
Sapling/Shrub stratun (Plot size:)			Prevalence Inde	x Worksheet		
1			Total % Cover of	5		
2			OBL species	0 x 1 = 0		
3			FACW species			
			FAC species			
3	= Total Cover		FACU species			
Herb stratum (Plot size: 5)	Total Cover		UPL species Column totals	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
(Flot size)						
			Prevalence Index	ζ = B/A =		
3			Hydrophytic Vo	getation Indicators:		
4			1 (Mar. 19 (Mar. 19)	r hydrophytic vegetation		
5			Dominance to			
6			Prevalence in	417-000 VDA		
7						
8				adaptations* (provide ata in Remarks or on a		
9			separate she			
10			Problematic I	hydrophytic vegetation*		
0	= Total Cover		(explain)	,,		
Woody vine stratum (Plot size:30)				soil and wetland hydrology must be ess disturbed or problematic		
2		_	Hydrophytic			
0	= Total Cover		vegetation	2004		
			present?	<u>Y</u>		
Remarks: (Include photo numbers here or on a separate she	eet)					
Sample plot was unvegetated, assumed hydroph	nytic vegetation	٦.				

-	-	
•	7	
J	v	_

Sampling Point:

SP B-1 wet

Profile Des	cription: (Descri	be to the	e depth needed	to docun	nent the	indicato	r or confirm	the absence	of indicators.)
Depth <u>Matrix</u> <u>Redox Features</u>									
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Te	xture	Remarks
0-20	N5/0	100					S		gravels
									3
				<u> </u>					
				-					
*Type: C = 0	Concentration, D =	Depletion	on, RM = Reduce	d Matrix,	MS = Ma	asked Sa	ind Grains.	**Location:	PL = Pore Lining, M = Matrix
	il Indicators:								ematic Hydric Soils:
Hist	isol (A1)		X Sar	ndy Gleye	ed Matrix	(S4)			dox (A16) (LRR K, L, R)
	ic Epipedon (A2)			ndy Redo		,		rk Surface (S7	
	ck Histic (A3)			pped Ma	Contraction Contract				Masses (F12) (LRR K, L, R)
	rogen Sulfide (A4	.)		my Muck	NONEDOCKI STOCKA	al (F1)			k Surface (TF12)
	itified Layers (A5)			my Gley	N. MINKSONS IN-ORDER			ner (explain in	
100000000000000000000000000000000000000	n Muck (A10)			oleted Ma		· (· <i>-)</i>	— 🖰	.o. (oxpidiii iii	· caino)
	leted Below Dark	Surface		dox Dark		(F6)			
	ck Dark Surface (A			oleted Da			*1		- L P (-P 1 - 1 - 1 - 1
	dy Mucky Minera			dox Depre					ophytic vegetation and weltand
	n Mucky Peat or F			ox Debi	25510115 (F0)	nyc	irology must b	e present, unless disturbed or
	IT WILLOW F Eat OF F	eat (33)							problematic
Restrictive	Layer (if observe	d):							
Type:							Hydri	c soil presen	t? Y
Depth (inche	s):								
Remarks:									
rtomants.									
LIVDDOL 6	\ <u>\</u>								
HYDROLO									
Wetland Hy	drology Indicato	rs:							
Primary India	cators (minimum o	of one is	required; check a	III that ap	ply)			Secondary Inc	licators (minimum of two required)
X Surface	Water (A1)			Aquatic I	Fauna (B	13)		Surface S	Soil Cracks (B6)
X High Wa	ter Table (A2)			True Aqu	uatic Plan	ts (B14)		Drainage	Patterns (B10)
X Saturation	n (A3)		X	Hydroge	n Sulfide	Odor (C1)		son Water Table (C2)
	arks (B1)						Living Roots		Burrows (C8)
The second secon	t Deposits (B2)			(C3)	ent rought black of endought of a least		•	The second secon	n Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)		0		e of Redu	ced Iron ((C4)		or Stressed Plants (D1)
	t or Crust (B4)			fices was			illed Soils		phic Position (D2)
	osits (B5)			(C6)					itral Test (D5)
	on Visible on Aerial	Imagery	(B7) —		ck Surface	e (C7)			(La)
	Vegetated Concar			The second secon	r Well Da	The state of the s			
	ained Leaves (B9)			• Institution		Remarks)	o .		
Field Obser					,				
Surface water		Yes	X No		Depth (ii	nchoe\.	3		
						- 1		-	U4
Water table Saturation pr		Yes Yes	X No		Depth (in Depth (in	A CONTRACTOR OF THE PARTY OF TH	0	• · · · · · · · · · · · · · · · · · · ·	licators of wetland drology present?
Land to the State of the State		168			Deptii (ii	nches).		- "'	/drology present? Y
(includes cap			age of the control of	1127 04 14	-		1748 W. 1011		
Describe rec	orded data (strea	m gauge	, monitoring well,	aerial ph	otos, pre	evious ins	spections), if	available:	
Remarks:									
All of We	tland B sample	plot wa	s inundated.						

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site CA Ventures City	/County:	Hennep	inSampling	Date: 12/3/2013
Applicant/Owner: CA Ventures	State:	Minnes	sota Sampling	Point: SP B-1 up
Investigator(s): K. Kunst	Secti	on, Townshi	p, Range:	S36, T118N, R22W
Landform (hillslope, terrace, etc.): hillslope			ve, convex, none):	
Slope (%): 2-6% Lat: 44.985786	Long:		B8 Datum:	
Soil Map Unit Name Water (miscellaneous)			Classification:	
Are climatic/hydrologic conditions of the site typical for this time	of the year?			
Are vegetation, soil, or hydrology				al circumstances"
Are vegetation , soil , or hydrology	-		Are norm	present? Yes
SUMMARY OF FINDINGS	* ************************************		(If needed evolai	n any answers in remarks.)
Hydrophytic vegetation present?			(II riccaca, explai	it any answers in ternarks.)
Hydric soil present?	le the e	ampled are	a within a wetland?	P N
Indicators of wetland hydrology present?		tional wetlar		
indicators of wetland hydrology present?	i yes, op	tioriai wetiai	id site iD.	
Remarks: (Explain alternative procedures here or in a separate	report.)			
VEGETATION Use scientific names of plants.				
Absolute	Dominant	Indicator	Dominance Test	Worksheet
Tree Stratum (Plot size: 30) % Cover	Species	Staus	Number of Domina	nt Species
1	• · · · · · · · · · · · · · · · · · · ·		that are OBL, FACV	V, or FAC:1 (A)
2			Total Number of	FREE STATES AND STATES OF THE
3			Species Across	all Strata: 2 (B)
4		и	Percent of Domina	
5			that are OBL, FACV	V, or FAC: 50.00% (A/B)
0	= Total Cover			AA. 1 1
Sapling/Shrub stratun (Plot size:15)			Prevalence Inde	CALCUST AND CONTRACT THE SEC. W
2			Total % Cover of: OBL species	0 x1= 0
3			FACW species	
4	. ——	n————	FAC species	50 x 3 = 150
5			FACU species	50 x 4 = 200
0	= Total Cover	2	UPL species	0 x 5 = 0
Herb stratum (Plot size: 5)			Column totals	100 (A) 350 (B)
1 Poa pratensis 50	Υ	FAC	Prevalence Index	· · · · · · · · · · · · · · · · · · ·
2 Lolium perenne 50	<u>Y</u>	FACU		· · · · · · · · · · · · · · · · · · ·
3	(1)		Hydrophytic Veg	getation Indicators:
4	•	•	Rapid test for	hydrophytic vegetation
5			Dominance to	est is >50%
6			Prevalence in	dex is ≤3.0*
7			Morphogical a	adaptations* (provide
8	•		supporting da	ita in Remarks or on a
9			separate shee	et)
10			The second secon	nydrophytic vegetation*
100	= Total Cover		(explain)	
Woody vine stratum (Plot size:)				soil and wetland hydrology must be
1	401 6 :			ess disturbed or problematic
2	-T-/ 10		Hydrophytic vegetation	
0	= Total Cover		present?	N
Remarks: (Include photo numbers here or on a separate sheet)				
Upland consisted of landscaping and maintained to				
Spland consisted of landscaping and maintained to	ari grass.			

SOIL			Sampling Point:	SP B-1 up
Profile Descri	otion: (Describe to t	he depth needed to document the indicato	or confirm the absence of indicators.)	
1000				

Profile Desc	cription: (Descri	be to the				indicato	r or confirm	the absence	of indicators.)
Depth	<u>Matrix</u>	3	Re	ures					
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Tex	ture	Remarks
0-6	10YR 2/1	100					SL		
7-20	10YR 4/4	100					mixed S. C	, and gravels	likely fill material
7 20	101111474	100					mixed 0, c	, and gravers	mery in material
Type: C = C	Concentration, D =	Denletic	on RM = Reduce	d Matrix	MS = M	asked Sa	nd Grains	**Location:	PL = Pore Lining, M = Matrix
	il Indicators:	Depletic	on, raw – raeduce	u iviati ix,	1010 - 1016	askeu oa			
3						(0.4)			ematic Hydric Soils:
Histisol (A1) Sandy Gleyed Matrix						20 M (
Histic Epipedon (A2) Sandy Redox (S5)						Dark Surface (S7) (LRR K, L)			
Blac	ck Histic (A3)		Stri	pped Ma	trix (S6)				Masses (F12) (LRR K, L, R)
Нус	Irogen Sulfide (A4	·)	Loa	my Mucl	ky Minera	al (F1)	Very	Shallow Dar	k Surface (TF12)
Stra	atified Layers (A5)	ſ	Loa	my Gley	ed Matrix	(F2)	Othe	er (explain in	remarks)
11	m Muck (A10)				atrix (F3)	128 (2)		3 (4)	85
	oleted Below Dark	Surface			Surface	(F6)			
	ck Dark Surface (/		63 53		ark Surfac	(T)	*India	atora of budr	anhytic vagatation and waltand
	ndy Mucky Minera				essions (hand the research of the control of	ophytic vegetation and weltand
				ox Debi	essions (F0)	riyai	ology must b	e present, unless disturbed or
5 Cl	m Mucky Peat or I	reat (53)	Į.						problematic
Restrictive	Layer (if observe	d):							
Гуре:	en i med 🗝 en der 18 i i 🗣 blik - kliegeld wordend fleinisch soon	Congress of Contract of Contra				1	Hydrid	soil presen	t? N
Depth (inche	is).				•			•	
restend the main to be and the returns					•				
HYDROLO	OGY								
Netland Hy	drology Indicato	rs:							
	cators (minimum		required: check s	all that ar	ndy)		c	Secondary Inc	licators (minimum of two require
		JI OHE IS	required, check a			12\	2		
Surface Water (A1) Aquatic Fauna (I									
High Water Table (A2) True Aquatic Pla									
Saturation (A3) Hydrogen Sulfide								1000	son Water Table (C2)
Water Marks (B1) Oxidized Rhizosph							Living Roots		Burrows (C8)
									n Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)									or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils Geomorphic								hic Position (D2)	
	osits (B5)			(C6)				FAC-Neu	itral Test (D5)
Inundation	on Visible on Aeria	l Imagery	(B7)	Thin Mu	ck Surfac	e (C7)			
Sparsely	Vegetated Conca	ve Surfac	e (B8)	Gauge of	or Well Da	ata (D9)			
Water-S	tained Leaves (B9))	-	Other (E	xplain in	Remarks))		
ield Obser	vations:								
		Yes	No	X	Depth /i	nches).			
									licators of wetland
		Yes	No	X	- Deptii (I	nones).		, i	/drology present? N
includes ca	pillary fringe)								
Describe red	orded data (strea	m gauge	, monitoring well,	aerial pl	notos, pre	evious ins	spections), if a	available:	
Remarks:									

Appendix C

Wetland Delineation Photographs

CA Ventures Property

City of Plymouth, Hennepin County, Minnesota

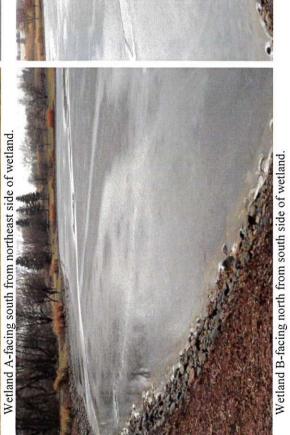
CA Ventures Project

Wetland Delineation Photos, December 3, 2013





Wetland A-facing north from northeast side of wetland.



Wetland B-facing northeast from south side of wetland.



