BOARD OF WATER AND SOIL RESOURCES

Minnesota Wetland Conservation Act Notice of Application

Local Government Unit: City o	f Plymouth	County: Hennepin
Applicant Name: City of Plymout	h	Applicant Representative: Jessica
Abernathy		
Project Name: Plymouth Fire Sta	tion II	
LGU Project No. (if any): 2020-11	L	
Date Complete Application Recei		5/8/2020
Date this Notice was Sent by LGU		
		Be Received By LGU ¹ : July 13, 2020
¹ minimum 15 business day comment perio	d for Boundary &	Type, Sequencing, Replacement Plan and Bank Plan Applications
WCA Decision Type - check all that	apply	
🛛 Wetland Boundary/Type 🛛	Sequencing	Replacement Plan Dank Plan (not credit purchase)
🗆 No-Loss (8420.0415)		Exemption (8420.0420)
Part: 🗌 A 🗆 B 🗆 C 🗆 D 🗆 E 🛛	$\exists F \Box G \Box H$	Subpart: 🗆 2 🗔 3 🗆 4 🗆 5 🔤 6 🗆 7 🗔 8 🗆 9
Replacement Plan Impacts (replace	ement plan de	cisions only)
Total WCA Impact Area Proposed	l:	
Application Materials		
\square Attached \square Other ¹ (specify)):	
¹ Link to ftp or other accessible file sha		eptable.
	•	
Comments on this application should be contact Person: Ben Scharer		
E-Mail Address: bscharenbroich@		U
Address and Phone Number: 3400		-
Decision-Maker for this Applicati		
Staff Governing Board/Co		ner (specify):
		iei (specify).
Notice Distribution (include name))	
Required on all notices:		
🛛 SWCD TEP Member: Ms. Stacey Li	jewski, HCA, 70	1 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600
BWSR TEP Member: Ben Carlson,	BWSR, 520 Lafa	ayette Road North, St. Paul, MN 55401
□ LGU TEP Member (if different thar	IGU contact):	
	,	R, 1200 Warner Road, St. Paul, MN 55106
-		NR, 1200 Warner Road, St. Paul, MN 55106
		,
⊠ Watershed District or Watershed I	Vgmt. Org .: BC	WMC 16145 Hillcrest Lane, Eden Prairie MN 55346
Applicant (notice only): Amy Han	son, City of Pl	ymouth, 3400 Plymouth Blvd, Plymouth MN 55447
		hy, 12800 Whitewater Drive, Suite 300, Minnetonka MN
55343		

Optional or As Applicable:

⊠ Corps of Engineers: US Army Corps of Engineering, C/O Jonathan Bakken, 180 Fifth Street East, Suite 700, St. Paul, MN 55101-1678

□ BWSR Wetland Mitigation Coordinator (required for bank plan applications only):		
Members of the Public (noticeonly): Todd Ullom, 12800 Whitewater Drive, Suite 300, Minnetonka MN 55343		
□ Other:		
Signature:	Date:	

Ben Schampsvil	6/19/2020
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This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.



May 7, 2020

Amy Hanson City of Plymouth 3400 Plymouth Blvd. Plymouth, Minnesota 55447

SUBJECT: Wetland Delineation Report Plymouth Fire Station II Plymouth, Hennepin County, Minnesota

Dear Ms. Hanson,

Sambatek has prepared this wetland delineation report for the Plymouth Fire Station II, located at 12000 Old Rockford Road and within Section 14, T118N, R22W, City of Plymouth, Hennepin County, Minnesota.

The Subject Property is approximately 3.59 acres and consists of Plymouth Fire Station II. The current project involves the redevelopment of the existing fire station. The topography of the Subject Property slopes to the west and north. The Subject Property is bordered by Old Rockford Road to the south, residential developments to the east, a wetland to the north, and Larch Lane to the west. The Subject Property is located within the Mississippi River – Twin Cities (20) major watershed and Bank Service Area 7.

WETLAND DELINEATION METHODOLOGY

Available wetland resources and aerial photographs were utilized to determine if wetland conditions are currently present on the site. In addition, a site visit was completed on April 17, 2020 to examine the site for the presence of wetland conditions in accordance to the *1987 Corps of Engineers Wetland Delineation Manual*, the *Midwestern Region Supplement to the Corps of Engineers Wetland Delineation Manual*, and the *2015 Guidance for Submittal of Delineation Reports to the St. Paul District Army corps of Engineers and Wetland Conservation Act Local Governmental Units in Minnesota*, Version 2.0. Wetland Resources that were reviewed included:

- Hennepin County Soil Survey;
- Wetlands Inventory Map (NWI);
- > DNR Public Waters Map; and,

Hennepin County Soil Survey

The *Hennepin County Soil Survey* was utilized to identify areas of mapped hydric soils within the Subject Property. Hydric soil is an indicator of potential wetland conditions. Based on the Hydric Rating obtained from the Soil Survey soil types can be categorized into six categories:

- All hydric all components listed for a given map unit are rated as being hydric,
- Predominantly hydric more than 66% to less than 100% of components are hydric,
- Partially hydric more than 33% to less than 65% of components are hydric,
- Predominantly non-hydric more than 0% and less than 32% of components are hydric,
- Not hydric all components are rated as not hydric, and
- Unknown hydric at least one component is not rated so a definitive rating for the map unit cannot be made.

Table 1 provides a list of the mapped soils within the Subject Property.

Map Unit Symbol	Map Unit Name	Hydric Soil Rating (%)	Hydric Soil	Drainage Classification
L22C2	Lester loam, 6-10% slopes, moderately eroded	2	Predominantly non-hydric	Well drained
L22D2	Lester loam, 10-16% slopes, moderately eroded	0	Not hydric	Well dreained
L36A	Hamel, overwash-Hamel complex, 0-3% slopes	45	Partially hydric	Somewhat poorly drained
L37B	Angus loam, 2-6% slopes	5	Predominantly non-hydric	Well drained
L50A	Muskego and Houghton soils, 0-1% slopes	100	All hydric	Very poorly drained

Table 1. Summary of Mapped Soils within the Subject Property

National Wetland Inventory

NWI maps are utilized as an off-site tool in identifying areas of potential wetlands. The NWI map for the Hennepin County does not identify any wetlands on the Subject Property.

DNR Public Waters and Wetlands

DNR Public Waters are waterbodies which meet the definition of Minnesota Statue 103G.005, Subdivision 15 and are regulated by the DNR. The DNR Public Waters Map for Hennepin County does not identify any public waters within the Subject Property.

MN DNR LiDAR Contour Map

The LiDAR Contour Map was utilized to approximate water flow patterns and identify potential depressional areas. The topographic map indicates that the Subject Property generally slopes to the north and west.

Precipitation Data

Analysis of precipitation data pertinent to the Subject Property is important to understand the wetland hydrology indicators observed during the field work activities.

A non-normal precipitation is considered to be that below the 30th percentile (drier than normal) and above the 70th percentile (wetter than normal). Normal precipitation is based on the 30-year average for the period of 1981-2010. Precipitation data were obtained from the Minnesota State Climatology Office webpage, which provides "synthetic" data for a chosen project location. The synthetic data are made up of regularly-spaced grid nodes whose values were calculated using data interpolated from Minnesota's precipitation database. For the purpose of this study, Sambatek utilized Section 14, Township 118N, Range 22W as the project location for the precipitation data. Table 2 summarizes the precipitation data for the past 12 months (April 2019 – March 2020). In addition, the table provides a comparison of the actual precipitation compared to the 30-year average (1981-2010). Sambatek also utilized the NRCS Method to determine the hydrologic conditions during the three month period prior to the site visit.

	30-Year Average	Actual	Difference	
Month/Year	(Inches)	(Inches)	(Inches)	
April 2019	2.78	3.45	+0.67	
May 2019	3.66	7.39	+3.73	
June 2019	4.57	2.72	-1.85	
July 2019	4.2	7.34	+3.14	
August 2019	1.18	6.26	+5.08	
September 2019	3.41	4.63	+1.22	
October 2019	2.51	5.19	+2.68	
November 2019	1.75	1.53	-0.22	
December 2019	1.19	2.12	+0.93	NRCS Method Condition
January 2020	0.84	0.87	+0.03	Normal
February 2020	0.79	0.57	-0.22	Normal
March 2020	1.85	2.57	+0.72	Wet
Total	28.73	44.64	+15.91	Wet

Table 2.	Precipitation	Data for Sectio	n 14	, T118N, R22W
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Based on the NRCS Method the antecedent precipitation was experiencing wetter than normal conditions at the time of the site visit. Precipitation for the past 12 months is above normal.

Field Delineation

The delineation of wetlands within the subject property consisted of a review of published resources and a site delineation of wetlands per the "three-parameter" (Level 2) methodology set forth in *The 1987 Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region* (hereafter, *The Regional Supplement*) (U.S. Army Corps of Engineers, Version 2.0, August 2010).

The wetland boundaries were staked with pink "Wetland Boundary" pinflags. Sambatek utilized a Trimble Geoexplorer 6000 GPS unit to locate the wetland boundaries. The surveyed wetland boundaries are illustrated

on the Wetland Delineation Map. Future site plans should include the surveyed wetland boundaries to ensure that proper measures are taken to avoid, minimize, or mitigate potential wetland impacts.

BASIN CHARACTERISTICS

Two wetlands were identified and staked during the April 17, 2020 site visit. Table 3 and the following paragraphs provide a summary of the wetlands identified and delineated by Sambatek.

Table 3. Wetland Type and Size

Wetland	Classification	Туре	Wetland Community	Area (sq. ft.)*	Area (acres)*
1	PEM1B/C	2/3	Fresh (wet) Meadow/ Shallow Marsh	903* SF	0.02* acres
2	PEM1B	2	Fresh (wet) Meadow	2,255 SF	0.05 acres

* Area within Subject Property

Wetland 1 is classified as a Palustrine (P-) type wetland exhibiting Emergent Vegetation (-EM-) and Saturated (-B-) and Seasonally Flooded (-C-) moisture regimes or a Type 2/3 (PEM1B/C) wetland type. According to the *Hennepin County Soil Survey*, Wetland 1 is mapped as L36A – Hamel, overwash – Hamel complex, which is listed as a partially hydric soil. The NWI and PWI maps do not identify Wetland 1.

Wetland 1 encompasses approximately 903 SF of the Subject Property. Wetland 1 appears to be supported by surface water from slight slopes to the south.

One transect, consisting of two sample locations, was established along the south side of Wetland 1. Dominant vegetation, the soil profile and wetland hydrologic indicators were observed and noted at each sample location. Data collected from the sample locations are presented in the Field Data Sheets (SP1-1 WET and SP1-1 UP), which are included with this report.

A majority of Wetland 1 exhibits emergent vegetation. Dominant vegetation within Wetland 1 is Reed Canary Grass (FACW) and Cattail sp. The boundary of Wetland 1 was placed along the contour where the vegetation transitions from a dominance of Reed Canary Grass (FACW) on the wetland side of the boundary to a dominance of Creeping Charlie (FACU) along the upland side of the boundary.

Wetland 2 is classified as a Palustrine (P-) type wetland exhibiting Emergent Vegetation (-EM-) and a Seasonally Saturated (-B-) moisture regime or a Type 2 (PEM1B) wetland type. According to the *Hennepin County Soil Survey*, Wetland 2 is mapped as L36A – Hamel, overwash – Hamel complex, which is listed as a partially hydric soil. The NWI and PWI maps do not identify Wetland 2.

Wetland 2 encompasses approximately 2,255 SF of the Subject Property. Wetland 2 appears to be supported by surface water from the slope to the east.

One transect, consisting of two sample locations, was established along the west side of Wetland 2. Dominant vegetation, the soil profile and wetland hydrologic indicators were observed and noted at each sample location. Data collected from the sample locations are presented in the Field Data Sheets (SP2-1 WET and SP2-1 UP), which are included with this report.

A majority of Wetland 2 exhibits emergent vegetation. Dominant vegetation within Wetland 2 is Reed Canary Grass (FACW). The boundary of Wetland 2 was placed along the toe of the slope where the soil transitions from the presence of hydric soil indicators on the wetland side of the boundary to a lack of hydric soil indicators on the upland side of the boundary.

If you have any questions or need additional information, please feel free to contact me at (763) 476-6010. Sambatek appreciates the opportunity to provide you with our wetland services. If you have any additional needs for our services for this or other projects in the future, please give us a call.

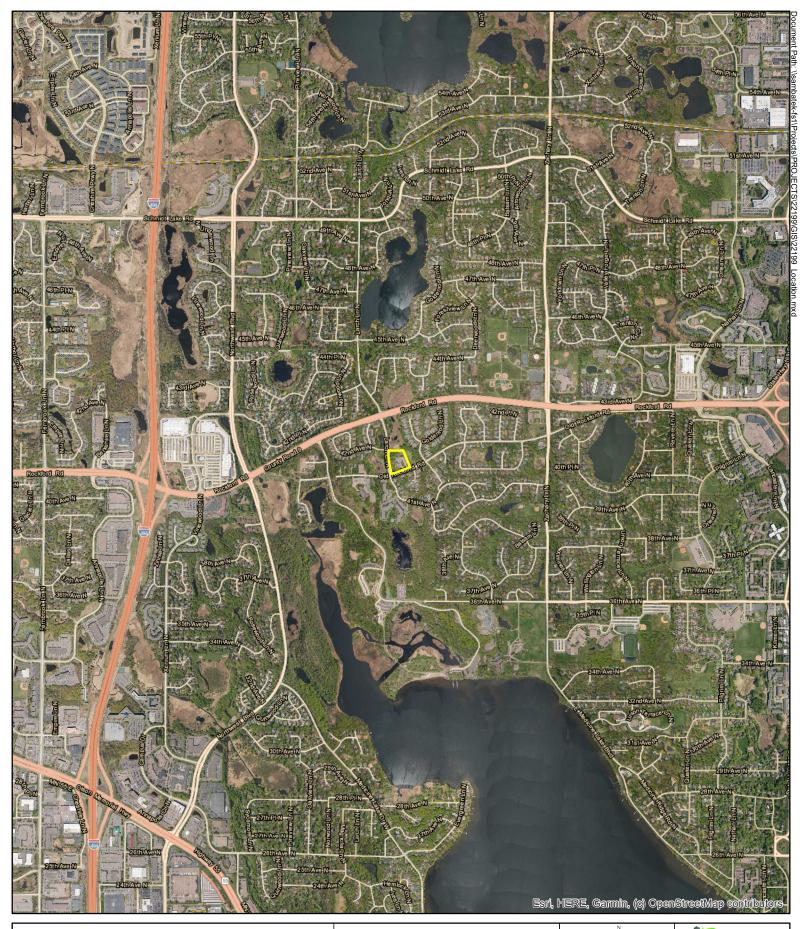
Sincerely,

Sambatek

JD Donath Environmental Scientist, WDC #1105

List of Attachments

Location Map Hennepin County Soil Survey Map NWI Map DNR Public Waters Map Contour Map Wetland Delineation Map Field Data Sheets Photo Log

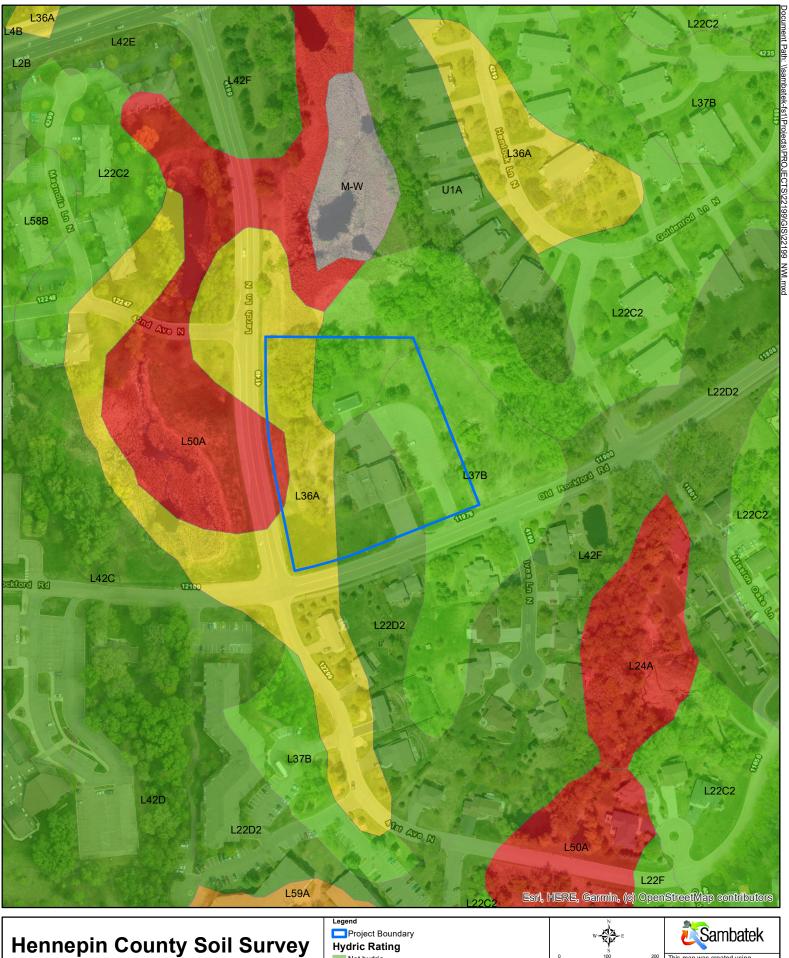


Location Map Plymouth Fire Station II Plymouth, Minnesota Legend Project Boundary



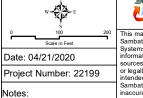
Sambatek

This map was created using Sambatek's Geographic Information Systems (GS), it is a compilation of information and data from various sources. This map is not a surveyed or legally recorded map and is intended to be used as a reference. Sambatek is not responsible for any inaccuracies contained herein.



Plymouth Fire Station II Plymouth, Minnesota



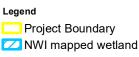


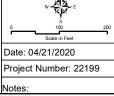
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National Wetland Inventory

Plymouth Fire Station II Plymouth, Minnesota







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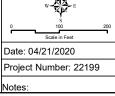


DNR Public Water Inventory

Plymouth Fire Station II Plymouth, Minnesota

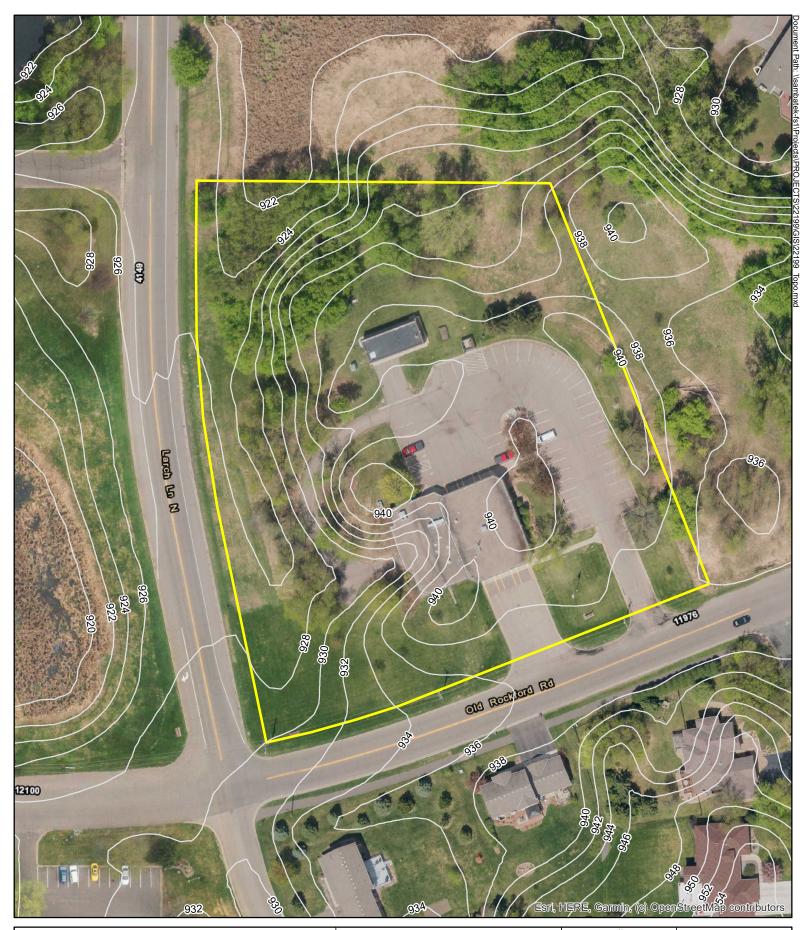
Legend

Public Watercourses
 Public Water Basins
 Project Boundary





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LiDAR Contour Map

Plymouth Fire Station II Plymouth, Minnesota







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Wetland Delineation Map

Plymouth Fire Station II Plymouth, Minnesota

Legend Sample Transect Wetland Boundaries Project Boundary





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WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Plymouth Fire Station II		City/County: Plymouth	Sampling Date: April 17, 2020
Applicant/Owner: City of Plymouth		State: Minnesota	Sampling Point: WL1-1UP
Investigator(s): Sambatek – JD Donath		Section, Township, Range: Section 14	, T118N, R22W
Landform (hillslope, terrace, etc.) Ground moraines	Loca	al relief (concave, convex, none): <u>none</u>	
Slope (%): <u>0-2% slopes</u> Lat: <u>45</u> .	030434	Long: <u>-93.433422</u> Date	um:
Soil Map Unit Name: L36A – Hamel, overwash-Ha	amel complex	NWI Classification:	
Are climatic / hydrologic conditions on the site typic	cal for this time of year?	Yes No_X_(If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circumstances	s" present? Yes <u>X</u> No
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS – Attach sit	e map showing sam	pling point locations, transed	ts, important features, etc.
	Yes No _X	• •	· ·
Hydric Soil Present?	Yes No	Is the Sampled Area within a Wetland? Yes	No <u>X</u>
Wetland Hydrology Present?	Yes No _X		
Remarks:			
The site was experiencing wetter than normal pro-	ecipitation conditions at the	time of the field visit.	

VEGETATION - Use scientific names of plants.

	Absolute	Dominant		Dominance Test v	vorksheet:			
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Domin	ant Spacias			
				That Are OBL, FA			2	(A)
2. 3.				,	- ,			()
				Total Number of I				
4 5				Species Across A	Il Strata:		5	(B)
		= Total Co	ver	Percent of Domin	ant Snacias			
				That Are OBL, FA		:4	0	(A/B)
Sapling/Shrub Stratum (Plot size: 15')				Prevalence Index	workshoot			
1. <u>Rhamnus cathartica (Common Buckthorn)</u>			FAC	Total % Cove		Multip	ly by:	
2. <u>Sambucus canadensis</u> (Common Elderberry) 3.		<u>Y</u>	UPL	-	0	x 1 =		_
				FACW species		X 2 =		_
4 5					20	X 3 =	-	_
	30	= Total Co	ver		80	X 4 =	320	_
				UPL species	10	X 5 =	50	_
Herb Stratum (Plot size: 5')					130	(A)	470	– (B)
1. Glechoma hederacea (Creeping Charlie)			FACU	Column Totals.	130	(A)	470	(6)
2. Phalaris arundinacea (Reed Canary Grass)		Y	-					
3. Arctium minus (Common Burdock)		Y	-		ence Index =		3.62	_
4				Hydrophytic Veget				
5				1 - Rapid Test			etation	
6				2 - Dominance	e Test is > 50	1%		
7				3 - Prevalence				
8 9				4 - Morphologi data in Rer	ical Adaptation narks or on a			
10				Problematic H	ydrophytic V	egetation	¹ (Expla	ain)
	100	= Total Co	ver					
Woody Vine Stratum (Plot size: 30')				¹ Indicators of hydri be present, unless				must
1				Hydrophytic				
2.				Vegetation Present?	Yes		No	х
	. <u> </u>	= Total Co	ver					
Remarks: (Include photo numbers here or on a separate	e sheet.)			1				

SOIL

Sampling Point: WL1-1 UP

Depth	Matrix		Red	dox Features						
(inches)	Color (moist)	%	Color (moist)	<u>%</u> T	⁻ype¹	Loc ²	Texture	Rei	marks	
0-6	10YR 2/1	100					Clay Loam			
6-12	10YR 4/4	100					Clay Loam			
12-18	10YR 2/2	100					Clay Loam			
Туре: С=С	concentration, D=Dep	letion, RM=Re	duced Matrix, CS	S=Covered or	Coated	I Sand Gr	ains.	² Location: PL=Pore I	Lining, M=Mat	trix.
•	Indicators:							tors for Problemation	•	5 ³ :
	sol (A1)	_		/ed Matrix (S4	4)			Coast Prairie Redox	(A16)	
	: Epipedon (A2)	_	Sandy Red	. ,				Dark Surface (S7)		
	K Histic (A3)		Stripped Ma	. ,				Iron-Mangenese Mas	· ,	
	ogen Sulfide (A4)	_		cky Mineral (F	'		Very Shallow Dark Surfaces (F12)
Strat	fied Layers (A5)	_		yed Matrix (F2	2)			Other (Explain in Re	marks)	
	Muck (A10)	_	Depleted M	()						
	eted Below Dark Surf	ace (A11)		k Surface (F6	,					
Thick	Dark Surface (A12)	_	Depleted D	ark Surface (F7)		³ Indica	tors of Hydrophytic v	regetation and	ł
Sandy Mucky Mineral (S1)		Redox Depressions (F8)				wetland hydrology must be present, unless				
5 cm	Mucky Peat or Peat	(S3)					distu	irbed or problematic.		
	Layer (if observed):									
Type: Depth (ir	nches):				Hydr	ic Soil P	esent?	Yes	No	Х
Remarks:										

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	 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 <u>No X</u> Depth (inches):	
Water Table Present? Yes <u>No X</u> Depth (inches): <u>Water</u>	ydrology Present? Yes No X
Saturation Present? Yes <u>No X</u> Depth (inches):	ydrology Present? Yes No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if a	/ailable:
Remarks:	
No wetland hydrology indicators were met.	

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Plymouth Fire Station II	City/County: Plymouth Sampling Date: April 17, 2020
Applicant/Owner: City of Plymouth	State: Minnesota Sampling Point: WL1-1WET
Investigator(s): Sambatek – JD Donath	Section, Township, Range: Section 14, T118N, R22W
Landform (hillslope, terrace, etc.) Ground moraines Lo	ocal relief (concave, convex, none): none
Slope (%): 0-2% slopes Lat: 45.030434	Long: -93.433422 Datum:
Soil Map Unit Name: <u>L36A – Hame, overwash-Hamel complex</u>	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u> </u>
Are Vegetation, Soil, or Hydrologysignificantly disturbed	d? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problematic	? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sampled Area
Remarks:	
The site was experiencing wetter than normal precipitation conditions at the	he time of the field visit.

VEGETATION - Use scientific names of plants.

	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30' 1.				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3 4 5				Total Number of Dominant Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size: 15')		= Total Cov	/er	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet: Total % Cover of: Multiply by:
				OBL species 0 x 1 = 0
3 4				FACW species <u>90</u> X 2 = <u>180</u>
5				FAC species 0 X 3 = 0
		= Total Cov	/er	FACU species 10 $X 4 = 40$
				UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5')	00	V		Column Totals: 100 (A) 220 (B)
1. <u>Phalaris arundinacea (Reed Canary Grass)</u> 2. Glechoma hederacea (Creeping Charlie)		<u>Y</u> N	FACU	
		<u> </u>	FACU	Prevalence Index = $B/A = 2.20$
Arctium minus (Common Burdock) A.				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6.				X 2 - Dominance Test is > 50%
7				X 3 - Prevalence Test is $\leq 3.0^1$
8 9				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation ¹ (Explain)
	20	= Total Cov	/er	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30') 1.		. <u> </u>		Hydrophytic Vegetation
2				Present? Yes X No
		= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate	sheet.)			

SOIL	
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HYDROLOGY

Profile Dese Depth	cription: (Describe to Matrix	the dep		n ent the i dox Featu		r confirm	the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 2/1	100					Clay Loam	
6-18	10YR 2/1	92	10YR 4/6	8	C	М	Clay Loam	
'Type: C=C	oncentration, D=Deplet	ion, RM	=Reduced Matrix, C	S=Covere	d or Coate	d Sand G	rains. ² L	ocation: PL=Pore Lining, M=Matrix.
Histic Black Hydro Strati 2 cm X Deple Thick Sand 5 cm	sol (A1) Epipedon (A2) K Histic (A3) ogen Sulfide (A4) ified Layers (A5) Muck (A10) eted Below Dark Surfac Dark Surface (A12) y Mucky Mineral (S1) Mucky Peat or Peat (S		Sandy Gley Sandy Red Stripped M Loamy Mud Loamy Gle Depleted M Redox Dar Depleted D Redox Dep	lox (S5) atrix (S6) cky Minera yed Matrix latrix (F3) k Surface park Surfac	al (F1) (F2) (F6) ce (F7)		C D Irr V O ³ Indicato wetlan	ors for Problematic Hydric Soils ³ : coast Prairie Redox (A16) Park Surface (S7) on-Mangenese Masses (F12) Very Shallow Dark Surfaces (TF12) Other (Explain in Remarks)
Restrictive Type: Depth (ir Remarks:	Layer (if observed):				Hyd	ric Soil P	resent?	Yes <u>X</u> No
itemarts.								

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) X High Water Table (A2) Aquatic Fauna (B13) X Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Li Drift Deposits (B3) Presence of Reduced Iron (C Algal Mat or Crust (B4) Recent Iron Reduction in Till Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	C4) Geomorphic Position (D2)						
Field Observations:							
Surface Water Present? Yes No X Depth (inches):							
Water Table Present? Yes X No Depth (inches): 8	Wetland Hydrology Present? Yes X No						
Saturation Present? Yes X No Depth (inches): 4 (includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Plymouth Fire Station II	City/County: Plymout	th Sampling Date: April 17, 2020
Applicant/Owner: City of Plymouth	s	State: Minnesota Sampling Point: WL2-1UP
Investigator(s): Sambatek – JD Donath	Section, Township, R	ange: Section 14, T118N, R22W
Landform (hillslope, terrace, etc.) Ground moraines	Local relief (concave, con	vex, none): <u>none</u>
Slope (%): <u>0-2% slopes</u> Lat: <u>45.029473</u>	Long: <u>-93.433429</u>	Datum:
Soil Map Unit Name: <u>L36A – Hamel, overwash-Hamel cor</u>	nplexNWI	I Classification:
Are climatic / hydrologic conditions on the site typical for th	is time of year? Yes <u>No X</u>	_(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysign	ificantly disturbed? Are "Norm	nal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynatu	rally problematic? (If needed	d, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sampling point loca	tions transects important features etc
Hydrophytic Vegetation Present? Yes	X No Is the Sampled Ar	202
Hydric Soil Present? Yes	NoX within a Wetland?	
Wetland Hydrology Present? Yes	No <u>X</u>	
Remarks:		
The site was experiencing wetter than normal precipitation	n conditions at the time of the field visit.	

VEGETATION - Use scientific names of plants.

	Absolute	Dominant		Dominance Test	worksheet:			
Tree Stratum (Plot size: 30' 1.				Number of Domir That Are OBL, FA			1	(A)
3 4 5				Total Number of Species Across A			1	(B)
Sapling/Shrub Stratum (Plot size: 15')		= Total Co	ver	Percent of Domin That Are OBL, FA		: 10	00	(A/B)
1				Prevalence Index Total % Cove			ly by:	
2				-	0	x 1 =		_
4.				FACW species	100	X 2 =	200	
5				FAC species	0	X 3 =	0	
		= Total Co	ver	FACU species	0	X 4 =	0	
Horb Stratum (Diat aiza: 5')				UPL species	0	X 5 =	0	_
Herb Stratum (Plot size: 5') 1. Phalaris arundinacea (Reed Canary Grass) 2				Column Totals:	100	(A) _	200	_ (B)
3.				Preva	lence Index :	= B/A =	2.0	
4.				Hydrophytic Veget	tation Indica	tors:		
5				1 - Rapid Test	t for Hydroph	ytic Vege	tation	
6				X 2 - Dominance				
/				X 3 - Prevalence				
8 9				4 - Morpholog data in Rer	ical Adaptation marks or on a			
10				Problematic H	lydrophytic V	egetation	¹ (Expla	ain)
Woody Vine Stratum (Plot size: 30')	100	= Total Co	ver	¹ Indicators of hydr be present, unless				must
1				Hydrophytic Vegetation Present?		x	No	
		= Total Co					_	
Remarks: (Include photo numbers here or on a separate	sheet.)							

SOIL

	cription: (Describe to Matrix	o the de	pth needed to docum	nent the i	ndicator o	r confirn	n the absence	of indicators.)		
Depth (inches)	Color (moist)	%	Color (moist)	dox Featu %	Type ¹	Loc ²	Texture	Rer	narks	
0-9	10YR 2/1	100					Clay Loam			
9-16	10YR 2/2	100					Clay Loam			
16-20	10YR 2/2	95	10YR 4/4	5	С	М			<u>.</u>	
10-20	101R 2/2	95	10 f R 4/4	<u> </u>	U	IVI	Clay Loam			
	<u> </u>								<u> </u>	
	<u> </u>								<u> </u>	
	<u> </u>									
¹ Type: C=C	oncentration, D=Depl	etion, RI	M=Reduced Matrix, C	S=Covere	d or Coate	d Sand G	Grains. ² L	ocation: PL=Pore L	ining, M=Matrix.	
Hydric Soil	Indicators:						Indicato	ors for Problematic	: Hydric Soils ³ :	
	sol (A1)		Sandy Gle	yed Matrix	: (S4)		C	oast Prairie Redox	(A16)	
Histic	: Epipedon (A2)		Sandy Red	()			D	ark Surface (S7)		
	(A3)		Stripped M	atrix (S6)				on-Mangenese Mas	()	
Hydro	ogen Sulfide (A4)		Loamy Mue	cky Minera	al (F1)		V	ery Shallow Dark S	urfaces (TF12)	
	fied Layers (A5)		Loamy Gle	•	· · /		C	ther (Explain in Rer	marks)	
	Muck (A10)		Depleted N	. ,						
·	eted Below Dark Surfa	ace (A11	,		· · /					
	Dark Surface (A12)		Depleted D		· · /	³ Indicators of Hydrophytic vegetation and				
	y Mucky Mineral (S1)		Redox Dep	oressions ((F8)		e present, unless			
5 cm	Mucky Peat or Peat (S3)					disturb	ped or problematic.		
	Layer (if observed):									
Type: Depth (ir	nches):				Hyd	ric Soil F	Present?	Yes	<u>No X</u>	
Remarks:										
No hydric so	bil indicators are met.									

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Livi Drift Deposits (B3) Presence of Reduced Iron (C4 Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	Geomorphic Position (D2)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp	pections), if available:
Remarks:	
No wetland hydrology indicators were observed.	

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Plymouth Fire Station II	City/County: Plymouth Sampling Date: April 17, 2020
Applicant/Owner: City of Plymouth	State: Minnesota Sampling Point: WL2-1WET
Investigator(s): Sambatek – JD Donath	Section, Township, Range: <u>Section 14, T118N, R22W</u>
Landform (hillslope, terrace, etc.) Ground moraines	ocal relief (concave, convex, none): none
Slope (%): 0-2% slopes Lat: 45.029473	Long: <u>-93.433429</u> Datum:
Soil Map Unit Name: L36A – Hamel, overwash-Hamel complex	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u> </u>
Are Vegetation, Soil, or Hydrologysignificantly disturbe	ed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problematic	c? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	impling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sampled Area
Remarks:	
The site was experiencing wetter than normal precipitation conditions at t	he time of the field visit.

VEGETATION - Use scientific names of plants.

Tree Stretum (Blot size: 20)	Absolute	Dominant Species?		Dominance Test	worksheet:			
Tree Stratum (Plot size: 30' 1.				Number of Domir That Are OBL, F			1	(A)
3 4 5				Total Number of Species Across A			1	(B)
Sapling/Shrub Stratum (Plot size: 15')		= Total Co	ver	Percent of Domir That Are OBL, F			00	(A/B)
1				Prevalence Index Total % Cove			oly by:	
2. 3.					0		0	_
3 4				FACW species	100	X 2 =	200	
5				FAC species	0	X 3 =	0	
		= Total Co	ver	FACU species	0	X 4 =	0	
Liente Christiane (Dist size: 5)				UPL species	0	X 5 =	0	
Herb Stratum (Plot size: 5') 1. Phalaris arundinacea (Reed Canary Grass) 2				Column Totals:	100	(A)	200	_ (B)
3.				Preva	lence Index :	= B/A =	2.0	
4.				Hydrophytic Vege	tation Indica	itors:		
5				1 - Rapid Test	t for Hydroph	ytic Vege	etation	
6				X 2 - Dominance				
/				X 3 - Prevalence				
8 9				4 - Morpholog data in Rei	iical Adaptati marks or on a			
10				Problematic H	lydrophytic V	egetatior	n ¹ (Expl	ain)
Woody Vine Stratum (Plot size: 30')	100	= Total Co	ver	¹ Indicators of hydr be present, unless				must
1				Hydrophytic Vegetation Present?		х	No	
		= Total Co	ver			_		
Remarks: (Include photo numbers here or on a separate	sheet.)							

SOIL

Sampling Point: WL2-1 WET

Profile Dese Depth	cription: (Describe Matrix	to the de	oth needed to docun Re	nent the in dox Featur		or confirm	n the absend	ce of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0-6	10YR 2/1	100					Loam				
6-12	10YR 21	90	10YR 4/6	10	С	М	Clay Loam				
12-18	10YR 2/1	80	10YR 4/6	20	С	М	Clay Loam				
	·										
¹ Type: C=C	oncentration, D=Dep	bletion, RN	/=Reduced Matrix, C	S=Covered	or Coate	d Sand G	rains.	² Location: PL=F	Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indic	ators for Probler	natic Hydric Soils ³ :		
Histo	sol (A1)		Sandy Gley	/ed Matrix ((S4)			Coast Prairie Re	edox (A16)		
Histic	Epipedon (A2)		Sandy Red	ox (S5)			Dark Surface (S7)				
Black	Histic (A3)		Stripped M	atrix (S6)			Iron-Mangenese Masses (F12)				
Hydro	ogen Sulfide (A4)		Loamy Mud	cky Mineral	l (F1) Very Shallow Dark Surfaces (TF12)						
	fied Layers (A5)		Loamy Gle	-	Other (Explain i	n Remarks)					
2 cm	Muck (A10)		Depleted N	Depleted Matrix (F3)							
	eted Below Dark Sur	face (A11	·	()	F6)						
	Dark Surface (A12)	``	Depleted D		,						
	. ,		Redox Dep				³ Indicators of Hydrophytic vegetation and				
	y Mucky Mineral (S1 Mucky Peat or Peat			185510115 (F	-0)			land hydrology m urbed or problem	ust be present, unless atic.		
	Layer (if observed)	:									
Type: Depth (ir	nches):				Hyd	ric Soil F	resent?	Yes _	<u>X</u> No		
Remarks:											
HYDROLO	GY										
	drology Indicators						Sec	condary Indicators	(minimum of two required)		

	<u>ecoordary maleatore (minimali or two required)</u>						
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) X Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Ro Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	Geomorphic Position (D2)						
Field Observations:							
Surface Water Present? Yes No X Depth (inches):							
Water Table Present? Yes X No Depth (inches): 19	tland Hydrology Present? Yes X No						
Saturation Present? Yes X No Depth (inches): 10 (includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ns), if available:						
Remarks:							

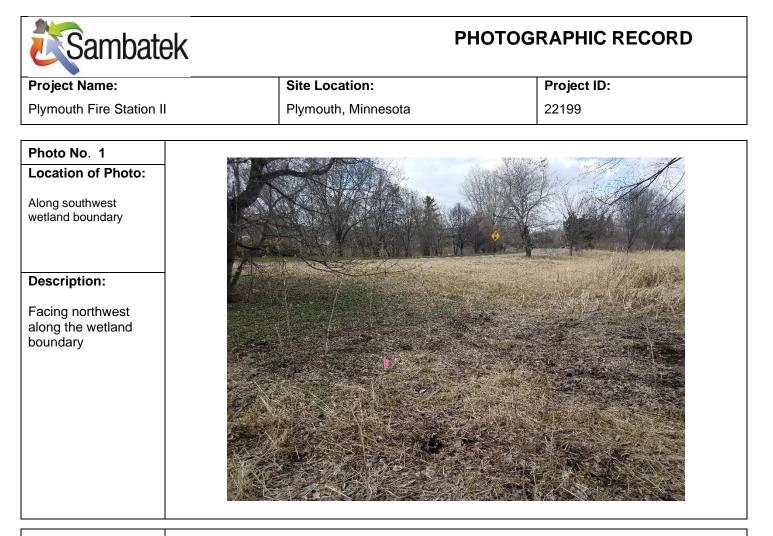


Photo No. 2

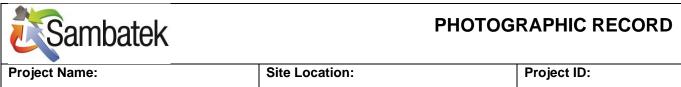
Location of Photo:

SP 1-1

Description:

Facing north across the wetland





Plymouth Fire Station II

Plymouth, Minnesota

22199

Photo No. 3 Location of Photo:

Along east wetland boundary

Description:

Facing west across wetland



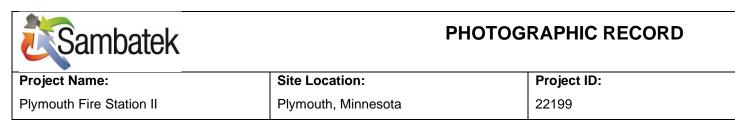
Photo No. 102 Location of Photo:

West wetland boundary

Description:

Facing east across wetland





Location of Photo: South wetland boundary

Photo No. 104

Description:

Facing north across wetland



Photo No. 107 Location of Photo:

North wetland boundary

Description:

Facing south



Project Name and/or Number: 22199 Plymouth Fire Department

PART ONE: Applicant Information

If applicant is an entity (company, government entity, partnership, etc.), an authorized contact person must be identified. If the applicant is using an agent (consultant, lawyer, or other third party) and has authorized them to act on their behalf, the agent's contact information must also be provided.

Applicant/Landowner Name: City of Plymouth – Amy Hanson
Mailing Address: 3400 Plymouth Boulevard, Plymouth Minnesota 55447
Phone:
E-mail Address:

Authorized Contact (do not complete if same as above): Mailing Address: Phone: E-mail Address:

Agent Name:Todd UllomMailing Address:12800 Whitewater Drive, Suite 300, Minnetonka, MN 55343Phone:763.476.6010E-mail Address:tullom@sambatek.com

PART TWO: Site Location Information

County:HennepinCity/Township:PlymouthParcel ID and/or Address:12000 Old Rockford RoadLegal Description (Section, Township, Range):Section 14, T118N, R22WLat/Long (decimal degrees):45.030434, -93.433422Attach a map showing the location of the site in relation to local streets, roads, highways.Approximate size of site (acres) or if a linear project, length (feet):3.59 acres

If you know that your proposal will require an individual Permit from the U.S. Army Corps of Engineers, you must provide the names and addresses of all property owners adjacent to the project site. This information may be provided by attaching a list to your application or by using block 25 of the Application for Department of the Army permit which can be obtained at:

http://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RegulatoryDocs/engform_4345_2012oct.pdf

PART THREE: General Project/Site Information

If this application is related to a delineation approval, exemption determination, jurisdictional determination, or other correspondence submitted *prior to* this application then describe that here and provide the Corps of Engineers project number.

Describe the project that is being proposed, the project purpose and need, and schedule for implementation and completion. The project description must fully describe the nature and scope of the proposed activity including a description of all project elements that effect aquatic resources (wetland, lake, tributary, etc.) and must also include plans and cross section or profile drawings showing the location, character, and dimensions of all proposed activities and aquatic resource impacts.

Please see that attached narrative.

PART FOUR: Aquatic Resource Impact¹ Summary

If your proposed project involves a direct or indirect impact to an aquatic resource (wetland, lake, tributary, etc.) identify each impact in the table below. Include all anticipated impacts, including those expected to be temporary. Attach an overhead view map, aerial photo, and/or drawing showing all of the aquatic resources in the project area and the location(s) of the proposed impacts. Label each aquatic resource on the map with a reference number or letter and identify the impacts in the following table.

Aquatic Resource ID (as noted on overhead view)	Aquatic Resource Type (wetland, lake, tributary etc.)	drain, or remove	Impact	Size of Impact ²	Overall Size of Aquatic Resource ³	Existing Plant Community Type(s) in Impact Area ⁴	County, Major Watershed #, and Bank Service Area # of Impact Area ⁵

¹If impacts are temporary; enter the duration of the impacts in days next to the "T". For example, a project with a temporary access fill that would be removed after 220 days would be entered "T (220)".

²Impacts less than 0.01 acre should be reported in square feet. Impacts 0.01 acre or greater should be reported as acres and rounded to the nearest 0.01 acre. Tributary impacts must be reported in linear feet of impact and an area of impact by indicating first the linear feet of impact along the flowline of the stream followed by the area impact in parentheses). For example, a project that impacts 50 feet of a stream that is 6 feet wide would be reported as 50 ft (300 square feet).

³This is generally only applicable if you are applying for a de minimis exemption under MN Rules 8420.0420 Subp. 8, otherwise enter "N/A". ⁴Use *Wetland Plants and Plant Community Types of Minnesota and Wisconsin* 3rd Ed. as modified in MN Rules 8420.0405 Subp. 2. ⁵Refer to Major Watershed and Bank Service Area maps in MN Rules 8420.0522 Subp. 7.

If any of the above identified impacts have already occurred, identify which impacts they are and the circumstances associated with each:

PART FIVE: Applicant Signature

Check here if you are requesting a <u>pre-application</u> consultation with the Corps and LGU based on the information you have provided. Regulatory entities will not initiate a formal application review if this box is checked.

By signature below, I attest that the information in this application is complete and accurate. I further attest that I possess the authority to undertake the work described herein.

Signature

I hereby authorize

to act on my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this application.

¹ The term "impact" as used in this joint application form is a generic term used for disclosure purposes to identify activities that may require approval from one or more regulatory agencies. For purposes of this form it is not meant to indicate whether or not those activities may require mitigation/replacement.

Attachment A Request for Delineation Review, Wetland Type Determination, or Jurisdictional Determination

By submission of the enclosed wetland delineation report, I am requesting that the U.S. Army Corps of Engineers, St. Paul District (Corps) and/or the Wetland Conservation Act Local Government Unit (LGU) provide me with the following (check all that apply):

Wetland Type Confirmation

Delineation Concurrence. Concurrence with a delineation is a written notification from the Corps and a decision from the LGU concurring, not concurring, or commenting on the boundaries of the aquatic resources delineated on the property. Delineation concurrences are generally valid for five years unless site conditions change. Under this request alone, the Corps will not address the jurisdictional status of the aquatic resources on the property, only the boundaries of the resources within the review area (including wetlands, tributaries, lakes, etc.).

Preliminary Jurisdictional Determination. A preliminary jurisdictional determination (PJD) is a non-binding written indication from the Corps that waters, including wetlands, identified on a parcel may be waters of the United States. For purposes of computation of impacts and compensatory mitigation requirements, a permit decision made on the basis of a PJD will treat all waters and wetlands in the review area as if they are jurisdictional waters of the U.S. PJDs are advisory in nature and may not be appealed.

Approved Jurisdictional Determination. An approved jurisdictional determination (AJD) is an official Corps determination that jurisdictional waters of the United States are either present or absent on the property. AJDs can generally be relied upon by the affected party for five years. An AJD may be appealed through the Corps administrative appeal process.

In order for the Corps and LGU 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* (2013).

http://www.mvp.usace.army.mil/Missions/Regulatory/DelineationJDGuidance.aspx



DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, ST. PAUL DISTRICT 180 FIFTH STREET EAST, SUITE 700 ST. PAUL, MN 55101-1678

June 15, 2020

Regulatory File No. 2020-00759-JMB

Jessica Abernathy, Sambatek Inc. C/o Amy Hanson, City of Plymouth 3400 Plymouth Blvd. Plymouth, Minnesota 55447

Dear Ms. Hansen:

We are responding to your request, submitted by Sambatek, Inc. on your behalf, for Corps of Engineers (Corps) concurrence with the delineation of aquatic resources completed on the Plymouth Fire Station II property. The project site is located in Section 14, Township 118 North, Range 22 West, Hennepin County, Minnesota.

We have conducted a preliminary review of the delineation report, dated May 7, 2020 and generally concur that the 'Wetland Delineation Map' in the report depicts a reasonable approximation of the location and boundaries of aquatic resources on the property. This delineation can be used for planning, and will generally be sufficient for permitting purposes. It may be necessary to review this determination in response to changing site conditions or new information.

Additional Information regarding Jurisdiction and Permitting:

No jurisdictional determination was prepared for this project, nor is one required to support a permit application. If you submit a permit application, we will assist you in identifying aquatic resources that are not subject to Corps regulation to exclude those resources from the permit evaluation. A permit application should include this delineation, any subsequent revisions, and any state or local delineation approvals. You are advised that receipt of a permit or exemption from a state or local agency does not satisfy the requirement to obtain a Corps permit where one is needed.

Please note that the Corps has issued Nationwide General Permits and Regional General Permits that provide authorization for many minor activities. Many of those general permits require a pre-construction notification and Corps verification prior to starting work. However, several general permits also have "self-certifying" provisions that eliminate the need to provide notice to the Corps, provided the permittee complies with the terms and conditions of the general permit. Current general permit terms and conditions can be found at: https://www.mvp.usace.army.mil/Missions/Regulatory/Permitting-Process-Procedures/.

If you have any questions, please contact me in our Hayward office at (651) 290-5884 or jonathan.m.bakken@usace.army.mil. In any correspondence or inquiries, please refer to the Regulatory file number shown above.

Sincerely,

Jonathan M. Bakken Project Manager

cc: Todd Ullom, Sambatek (tullom@sambatek.com) Vanessa Strong, City of Plymouth (vstrong@plymouthmn.gov) Ben Meyer, BWSR (ben.meyer@state.mn.us)