

Minnesota Wetland Conservation Act Notice of Application

Local Government Unit: City of Plymouth County: Hennepin
Applicant Name: Stantec Consulting Services Inc
Applicant Representative: Matt Summers
Project Name: 10000 Highway 55
LGU Project No. (if any): 2021-11
Date Complete Application Received by LGU: 6/29/2021
Date this Notice was Sent by LGU: 8/3/2021
Date that Comments on this Application Must Be Received By LGU¹: 8/25/2021
¹ minimum 15 business day comment period for Boundary & Type, Sequencing, Replacement Plan and Bank Plan Applications
WCA Decision Type - check all that apply
☑ Wetland Boundary/Type ☐ Sequencing ☐ Replacement Plan ☐ Bank Plan (not credit purchase)
□ No-Loss (8420.0415) □ Exemption (8420.0420)
Part: □ A □ B □ C □ D □ E □ F □ G □ H Subpart: □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9
Devile consent Dien Immeste (newlessent plan desisions only)
Replacement Plan Impacts (replacement plan decisions only) Total WCA Impact Area Proposed:
Total WCA Impact Area Proposed:
Application Materials
Link to ftp or other accessible file sharing sites is acceptable.
Comments on this application should be sent to:
LGU Contact Person: Ben Scharenbroich, Water Resources Supervisor
E-Mail Address: bscharenbroich@plymouthmn.gov
Address and Phone Number: 3400 Plymouth Blvd, Plymouth, MN 55447
Decision-Maker for this Application:
☐ Staff ☐ Governing Board/Council ☐ Other (specify):
Notice Distribution (include name)
Required on all notices:
SWCD TEP Member: Ms. Stacey Lijewski, HCA, 701 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600
⊠ BWSR TEP Member: Ben Carlson, BWSR, 520 Lafayette Road North, St. Paul, MN 55401
CUTED Marsh on (if different them I CU contest).
 □ LGU TEP Member (if different than LGU contact): ☑ DNR Representative: Melissa Collins, MnDNR, 1200 Warner Road, St. Paul, MN 55106
Lucas Youngsma, MnDNR, 1200 Warner Road, St. Paul, MN 55106
Eucus Tourigania, Willowk, 1200 Warner Road, St. Taul, Will 33100
☑ Watershed District or Watershed Mgmt. Org.: BCWMC, C/O Laura Jester, 16145 Hillcrest Lane, Eden Prairie
MN 55346
☐ Applicant (notice only): Doran RE Partners, LLC. 7803 Glenroy Road, Suite 200, Bloomington MN 55439
☐ Agent/Consultant (notice only): Matt Summers, Stantec, 2080 Wooddale Drive, Suite 100, Woodbury MN
55125

Optional or As Applicable:

☑ Corps of Engineers: US Army Corps of Engineers c/o Meghan Brown, 180 Fifth Street East, Suite 700, St.Paul MN 55101-1678									
☐ BWSR Wetland Mitigation Coordinator (required for bank pla	n applications only):								
☐ Members of the Public (notice only): ☐ Other:									
Signature:	Date:								
Ben Schambrotch	08/04/2021								

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.



Wetland Delineation Report

10000 Highway 55 Plymouth, Minnesota Stantec Project #:227703917

Lead Delineator: Matt Summers, PSS

June 29, 2021

Prepared for:

Doran RE Partners, LLC 7803 Glenroy Road, Suite 200 Bloomington, MN 55439

Prepared by:

Stantec Consulting Services Inc. 2080 Wooddale Drive Suite 100 Woodbury, MN 55125 Phone: 612-227-0017



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Doran Plymouth Wetland Delineation Introduction June 29, 2021

1.0 INTRODUCTION

Stantec Consulting Services, Inc. (Stantec) performed a wetland delineation at 10000 Highway 55 in Plymouth, MN (PIDs 3611822130010 and 3611822420018) on behalf of Doran Companies (Doran). The delineation was performed in relation to proposed property development efforts.

The Project Area is approximately 7.5 acres in size and located in the Southeast ¼ of Section 36, Township 118, Range 22 in Hennepin County, Minnesota (See Appendix A, Figure 1). The purpose and objective of the wetland delineation was to identify the extent of wetlands within the Project Area for re-development purposes.

The Project Area is comprised primarily of an existing office building and associated parking lots. The Project Area was significantly altered for urban development in the 1970s. Bassett Creek was realigned to the east to create additional buildable land, and the stream's current alignment runs along the north and east property boundaries. Approximately half of the Project Area is covered by impervious surface, and the remaining open areas have been disturbed by grading, filling, and excavating. Vegetation is primarily manicured lawn. A public trunk sewer runs under the eastern edge of the Project Area.

Wetlands and waterways are subject to federal regulation under Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act, which is administered by the U.S. Army Corps of Engineers (USACE). The State of Minnesota regulates wetlands and waterways via Section 401 of the CWA (administered by the Minnesota Pollution Control Agency), Minnesota Department of Natural Resources Public Waters (MN Statute 103G and Rule 6115), and the Wetland Conservation Act (WCA) that are enforced by Local Government Units (LGU). For this Project, the WCA LGU is City of Plymouth.



Doran Plymouth Wetland Delineation Methods June 29, 2021

2.0 METHODS

2.1 WETLANDS

Wetland delineations were based on the criteria and methods outlined in the 1987 Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1 (1987 Manual) and subsequent guidance documents (USACE 1991a, 1991b, 1992), and the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Regional Supplement).

The wetland delineation involved the use of available resources to assist in the assessment such as U.S. Geological Survey (USGS) topographic maps, U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) soil survey, Minnesota Department of Natural Resources (MNDNR) Minnesota National Wetland Inventory Update mapping, MNDNR Protected/Public Waters mapping, MNDNR LiDAR digital elevation mapping, and aerial photography.

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

As recent weather patterns influence the visibility and presence of some wetland hydrology indicators, the antecedent precipitation in the three months leading up to the field investigation was reviewed. The current year's precipitation data were compared to long-term precipitation averages and standard deviation to determine if precipitation was normal, wet, or dry for the area.

The wetland boundaries and sampling points were identified and flagged using pink "WETLAND DELINEATION" flags as well as surveyed with a Global Positioning System (GPS) capable of sub-meter accuracy.



Doran Plymouth Wetland Delineation Results June 29, 2021

3.0 RESULTS

3.1 SITE DESCRIPTION

The Project Area is comprised primarily of an existing office building, manicured lawn, and associated parking lots. The Project Area was significantly altered for urban development in the 1970s. Bassett Creek was realigned to the east to create additional buildable land, and the stream's current alignment runs along the north and east property boundaries. Approximately half of the Project Area is covered by impervious surface, and the remaining open areas have been disturbed by grading, filling, and excavating. Vegetation is primarily manicured lawn. A public trunk sewer runs under the eastern edge of the Project Area.

Soils present within the Project Area and their hydric status are summarized in Table 1 below and presented in Appendix A, Figure 2. The site features one map unit with anticipated hydric soil (L30A Medo soils, depressional) and three non-hydric map units (L2B and L2A Malardi-Hawick complexes and U2A Udorthent, wet substratum).

Table 1. Summary of Mapped Hydric Soils within the Project Area

Soil symbol: Soil map Unit Name	Hydric Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
L30A Medo soils, depressional	Medo	85	Depressions	Yes
L30A Medo soils, depressional	Unnamed mineral soils	15	Depressions	Yes

The MNDNR Protected/Public Waters map identified Bassett Creek running along the northern and eastern edge of the Project Area (Appendix A, Figure 3).

The Minnesota National Wetlands Inventory Update map identifies three potential wetlands within the Project Area. See Appendix A, Figure 4. The mapped features approximately coincide with the field delineated wetlands, however, any field delineated wetlands supersede the validity of any publicly available database information.

3.2 CLIMATIC CONDITIONS

Average precipitation and measured precipitation data for the investigation area were obtained from the nearest Minnesota Climatology Working Group MNGage weather station and used to determine general hydrologic conditions at the time of the field delineation. Daily precipitation data were incorporated into a table showing average precipitation ranges, daily precipitation totals, and a 30-day rolling precipitation total (Appendix B). The data show the area was within the normal precipitation range.

3.3 WETLANDS AND WATERBODIES

Three wetlands and one waterbody were identified and delineated within the Project Area. See Appendix A, Figure 5. Wetland determination data forms were completed for four sample points at two locations and are included in Appendix C. The wetlands are summarized in Table 2 below and described in detail in the following sections. See Appendix A, Figure 6 for pre-development conditions.



Doran Plymouth Wetland Delineation Results June 29, 2021

Table 2. Summary of Wetlands and Waterbodies Identified within the Project Area

Wetland ID	Observed Wetland or Waterbody Type*	Mapped NWI Wetland Type	Adjacent Surface Waters	Acreage or Length (on-site)
Wetland 1	Fresh Meadow/Type 2/PEM1B	None	Bassett Creek	0.08 ac
Wetland 2	Shallow Open Water/Type 5/PUBHx	PUBHx	None	0.11 ac
Wetland 3	Shallow Open Water/Type 5/PUBHx	PUBHx	None	0.46 ac
Stream 1 (Bassett Creek)	Perennial stream			1,014 linear feet
			WETLAND TOTAL	0.65 ac

Wetland type based on Eggers & Reed 2015 / Circular 39 (Shaw & Fredine 1971) / Cowardin 1979

3.3.1 Wetland 1

Wetland 1 is a 0.08-acre riparian wetland adjacent to Bassett Creek along the northern edge of the Project Area.

Vegetation

Dominant plant species identified at sample points and observed throughout Wetland 1 consisted of reed canary grass (*Phalaris arundinacea*, FACW). Other observed species included stinging nettle (*Urtica dioica*, FACW), and jewelweed (*Impatiens capensis*, FACW).

Hydrology

The wetland can experience prolonged periods of inundation, depending on water levels in Bassett Creek. Bassett Creek had a relatively low water level on the day of the site visit, and no primary indicators of wetland hydrology were observed. Secondary indicators of wetland hydrology observed included Geomorphic Position (D2) and FAC-Neutral Test (D5).

Soils

Soils within the wetland are mapped by the NRCS as Medo soils, an organic soil. Field observations confirmed the wetland soils are organic and meet the definition of Hydric Soil Indicator Histosol (A1). The deep organic soils are also a strong indicator that the wetland has historically experienced prolonged periods of inundation or saturation, though site hydrology was significantly altered with the realignment of Bassett Creek in the 1970s.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation and topography. The transition from wetland to upland characteristics generally correlated with a well-defined topographic break.



Doran Plymouth Wetland Delineation Results June 29, 2021





3.3.2 Wetland 2

Wetland 2 is a 0.11-acre excavated stormwater pond that coincides with the former alignment of Bassett Creek (see Appendix A, Figure 6). Based on soil observations and historic aerial imagery, this basin was created within a natural wetland area.

Vegetation

The pond was holding water at the time of the site visit, with no significant observable vegetation present. The pond features steep, abrupt banks leading to the upland manicured lawn area. Upland vegetation was entirely mowed lawn.

Hydrology

The wetland receives directed stormwater from nearby parking lots but is also likely influenced by local groundwater conditions. The hydric pond bottom soils appeared natural with no observed clay or artificial pond liner and are a remnant of pre-development wetland or stream area. Observed primary indicators of wetland hydrology included Surface Water (A1), High Water Table (A2), and Saturation (A3).

Soils

Soils within the wetland are mapped by the NRCS as Medo soils, an organic wetland soil. Field observations confirmed the wetland soils are partially organic and meet the definition of hydric soil Indicator Histic Epipedon (A2). Other hydric soil indicators included Hydrogen Sulfide (A4), and 2 cm Muck (A10). Subsoils also featured a significant amount of very small old shells, likely deposited when this area was within the active Bassett Creek alignment. Upland soils were characterized by buried organic soils under 14 inches of loamy dredge spoil fill.



Doran Plymouth Wetland Delineation Results June 29, 2021

Wetland Boundary

The wetland boundary was determined based on abrupt, steep, eroded banks around the entire pond.





3.3.3 Wetland 3

Wetland 3 is a 0.46-acre excavated stormwater pond that also coincides with the former alignment of Bassett Creek (see Appendix A, Figure 6). Based on soil observations and historic aerial imagery, this basin was created within a natural wetland area.

Vegetation

The pond was holding water at the time of the site visit, with no significant observable vegetation present. The pond features steep, abrupt banks leading to the upland manicured lawn area. Upland vegetation was entirely mowed lawn.

Hydrology

The wetland receives directed stormwater from nearby parking lots and an office building but is also likely influenced by local groundwater conditions. The hydric pond bottom soils appeared natural with no observed clay or artificial pond liner and are a remnant of pre-development wetland or stream area. Observed primary indicators of wetland hydrology included Surface Water (A1), High Water Table (A2), and Saturation (A3).

Soils

Soils within the wetland are mapped by the NRCS as Medo soils, an organic wetland soil. Field observations confirmed the wetland soils are partially organic and meet the definition of hydric soil Indicator Histic Epipedon (A2).



Doran Plymouth Wetland Delineation Results June 29, 2021

Other hydric soil indicators included Hydrogen Sulfide (A4), and 2 cm Muck (A10). Subsoils also featured a significant amount of very small old shells, likely deposited when this area was within the active Bassett Creek alignment. Upland soils were characterized by buried organic soils under 17 inches of loamy dredge spoil fill.

Wetland Boundary

The wetland boundary was determined based on abrupt, steep, eroded banks and constructed features like walls and impervious cover.





3.3.4 Stream 1 (Bassett Creek)

Approximately 1,014 feet of Bassett Creek run along the north and east Project Area boundary. Bassett Creek is a perennial, manipulated waterway that eventually enters a subsurface tunnel system before discharging to the Mississippi River near downtown Minneapolis. The water level appeared low for a typical late-April date, but local gage data was not available.

Within the Project Area, the stream channel and OHWL were generally characterized by abrupt banks, except along the north Project Area boundary where Wetland 1 is adjacent to the stream.



Doran Plymouth Wetland Delineation Results June 29, 2021

Stream 1, Bassett Creek:





Doran Plymouth Wetland Delineation Conclusion June 29, 2021

4.0 CONCLUSION

Three wetlands and one waterbody were identified and delineated within the Project Area in accordance with state and federal guidelines. The wetlands were flagged, surveyed with GPS, and mapped using GIS software. A total of 0.65 acres of wetlands were delineated within the Project Area, and 1014 linear feet of stream.

Stantec recommends this report be submitted to the WCA LGU (City of Plymouth) and USACE for a for final jurisdictional review and concurrence. The delineation was performed by experienced and qualified professionals using standard practices and sound professional judgment. The ultimate decision on wetland boundaries rests with the City of Plymouth and USACE. As a result, there may be adjustments to boundaries based upon review by a regulatory agency.



Doran Plymouth Wetland Delineation References June 29, 2021

5.0 REFERENCES

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USACE St. Paul District and BWSR. 2016. Guidance for Offsite Hydrology/Wetland Determinations, ed C. Koniskson and J1. Jaschke.



Doran Plymouth Wetland Delineation References June 29, 2021

U.S. Department of Agriculture, Natural Resource Conservation Service (USDA, NRCS). 2018. *Field Indicators of Hydric Soils in the United States*, Version 8.2. L.M. Vasilas, G.W. Hurt, and J.F. Berkowitz (eds.). USDA, NRCS in cooperation with the National Technical Committee for Hydric Soils.



Doran Plymouth Wetland Delineation Figures June 29, 2021

Appendix A FIGURES

Figure 1. Project Location

Figure 2. Soil Survey

Figure 3. Minnesota Protected Waters

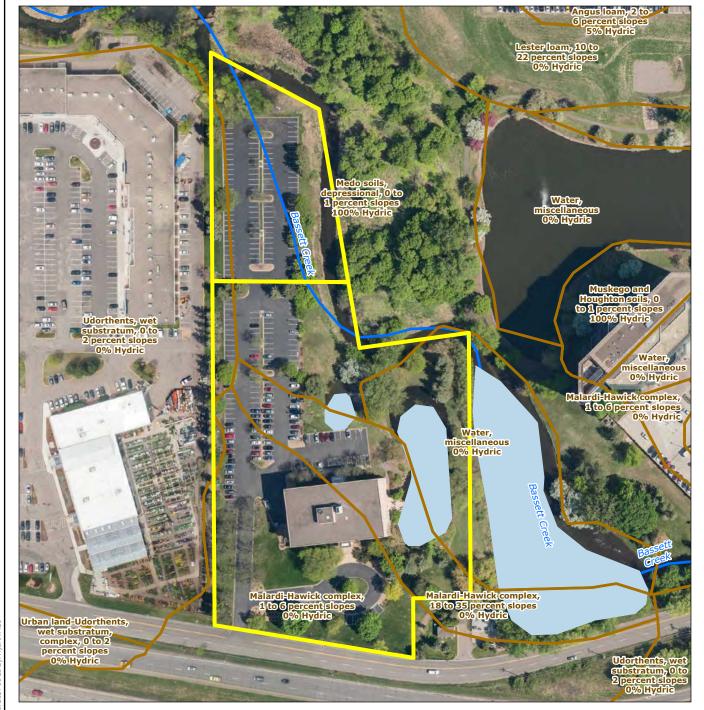
Figure 4. Minnesota National Wetland Inventory

Figure 5. Field Collected Data

Figure 6. Historic Aerial Photograph



Page 1 of 1





Project Area

Soil Map Unit & Hydric Rating National Hydrography Dataset

Stream

Waterbody

Stantec

(At original document size of 8.5x11) 1:2.000

Project Location T118, R22, S36 Plymouth, Hennepin Co., MN Prepared by AH on 2021-04-29 TR by XXX on 2021-XX-XX IR by XXX on 2021-XX-XX

Doran Development LLC
Plymouth Wetland Delineation

Figure No





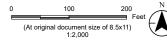


Project Area

Minnesota Public Waters Delineations

Public Ditch/Altered Natural Watercourse

Public Waters Basins





Prepared by AH on 2021-04-29 TR by XXX on 2021-XX-XX IR by XXX on 2021-XX-XX

Client/Project
Doran Development LLC
Plymouth Wetland Delineation

Title
MN Protected & Public Waters



Project Area

National Wetlands Inventory Feature National Hydrography Dataset

Waterbody



(At original document size of 8.5x11) 1:2,000

Prepared by AH on 2021-04-29 TR by XXX on 2021-XX-XX IR by XXX on 2021-XX-XX

Client/Project
Doran Development LLC
Plymouth Wetland Delineation



Title
National Wetlands Inventory Data

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Page 1 of 1

Notes
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2. Data Sources: Stantec, NHD, NWI
3. Background: 2018 color Hennepin 3 in

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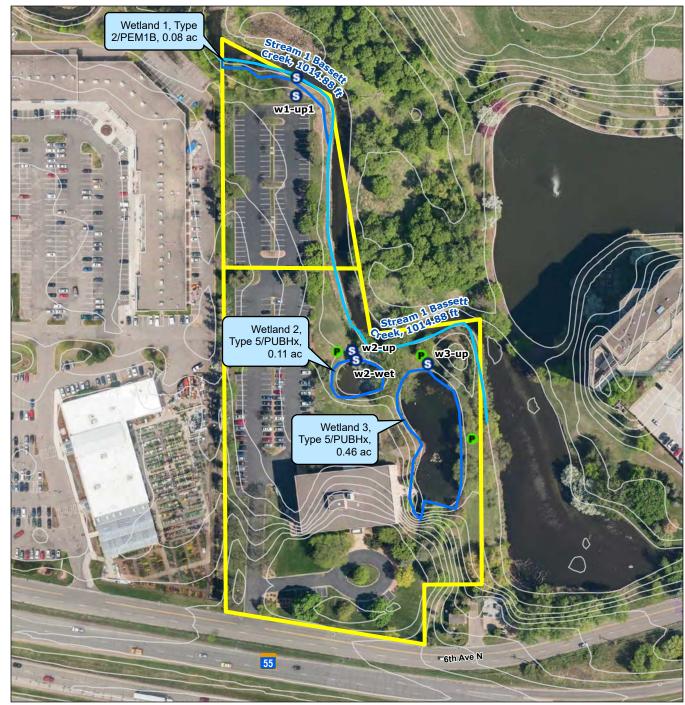
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- Notes
 1. Coordinate System: NAD 1983 HARN Adj MN Hennepin Feet
 2. Data Sources: Stantec, NHD, MNTopo
 3. Background: 2018 color Hennepin 3 in

- Project Area
- Delineated Wetland Boundary
- Sample Point
- Photo Location
- Linear Water Feature Top-of-Bank
 - Contour 2ft





Prepared by AH on 2021-04-29 TR by XXX on 2021-XX-XX IR by XXX on 2021-XX-XX

Client/Project
Doran Development LLC
Plymouth Wetland Delineation

Title Field Collected Data



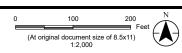
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2. Data Sources: Stantec, Hennepin Co GIS
3. Background: Hennepin UTM Aerial 1964

Legend

Project Area

Delineated Wetland Boundary

Current Bassett Creek West Top-of-Bank





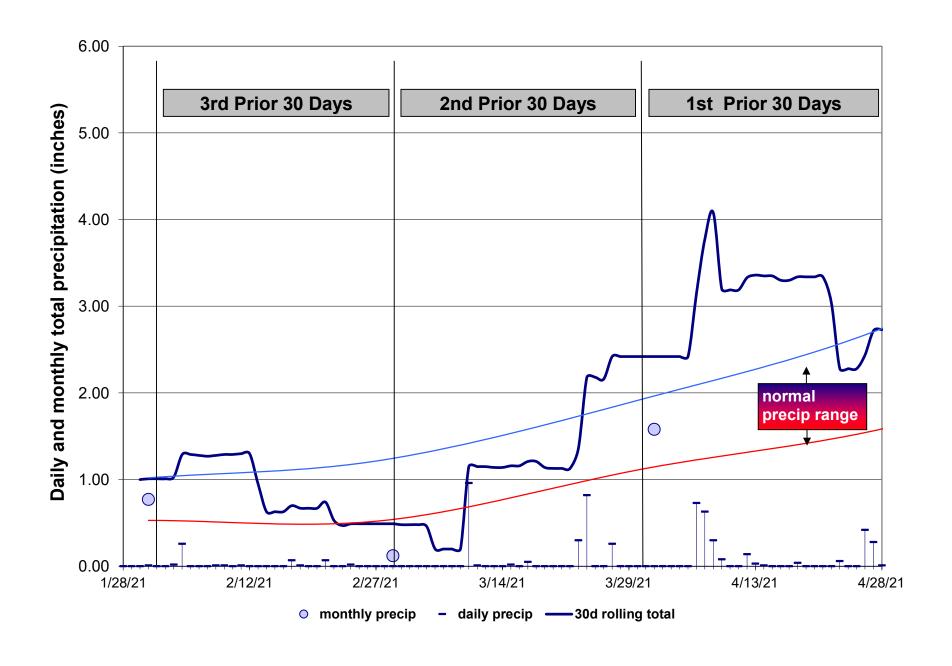
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Doran Development LLC
Plymouth Wetland Delineation

Title
Historical Imagery

Doran Plymouth Wetland Delineation Precipitation Analysis June 29, 2021

Appendix B PRECIPITATION ANALYSIS





Minnesota State Climatology Office

State Climatology Office - DNR Division of Ecological and Water Resources

home | current conditions | journal | past data | summaries | agriculture | other sites | about us



Nearest Station Precipitation Data Retrieval

Minnesota's precipitation data archive is searched for data closest to a selected target location for each month. Values from the site closest to the target location are returned below after clicking the retrieve monthly data or retrieve daily data buttons. The precipitation data are made up of measured rainfall and the measured liquid content of snowfall.

Temperature, snowfall, and snow depth data from National Weather Service reporting stations are no longer retrieved from this application. To obtain those data, see our newest data retrieval tool (May 2014). National Weather Service precipitation data continue to be available from this application.

Obtaining data for legal purposes Guide for column headers in the data table

target location: Hennepin-Plymouth-Plymouth 118N 22W S15 (latitude: 45.02438 longitude: 93.46121)

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Minnesota State Climatology Office

State Climatology Office - DNR Division of Ecological and Water Resources

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Wetland Delineation Precipitation Data Retrieval from a **Gridded Database**

Obtaining a long-term precipitation data time-series for wetland delineation efforts can be a difficult and time-consuming process. Locating the nearest precipitation monitoring station to the wetland often proves challenging. Once a nearby monitoring location is identified, retrieving the data, accounting for gaps in the record, and generating the summary statistics can provide further challenges.

By offering access to "synthetic" data, this application assists users in overcoming some the challenges inherent in assembling a precipitation data set. The synthetic data are made up of regularly-spaced grid nodes whose values were calculated using data interpolated from Minnesota's outstanding, but spatially and temporally irregular, precipitation data base.

Click to learn more about **Precipitation Grids**.

select a wetland location

Precipitation data for target wetland location:

township number: county: Hennepin 118N

township name: range number:

Plymouth 22W

nearest community: section number:

Plymouth 16 To create a precipitation documentation worksheet using the three-prior-month (NRCS) method, select the date of the site visit or aerial photograph and click on "create worksheet".

2021	\	May	~	1	V
croa	to wo	rkshoot			

precipitation totals are in inches

color key:

total is in lowest 30th percentile of the period-of-record distribution

total is => 30th and <= 70th percentile

total is in highest 30th percentile of the period-of-record distribution

multi-month totals:

WARM = warm season (May thru September)

ANN = calendar year (January thru December) **WAT** = water year (Oct. previous year thru Sep. present

year)

A 'R' following a monthly total indicates a provisional value derived from radar-based estimates.

	Period-of-Record Summary Statistics														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	WARM	ANN	WAT
30%	0.53	0.53	1.13	1.63	2.57	3.27	2.41	2.97	1.92	1.26	0.77	0.61	16.22	26.36	26.29
70%	1.02	1.23	1.94	2.82	4.36	5.53	4.52	4.44	3.75	2.74	1.92	1.34	21.31	32.57	32.29
mean	0.89	0.92	1.63	2.42	3.73	4.46	3.86	3.73	3.09	2.25	1.51	1.04	18.87	29.54	29.58
	1981-2010 Summary Statistics														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	WARM	ANN	WAT
30%	0.51	0.41	1.28	1.99	2.71	3.41	2.52	3.17	2.14	1.30	1.06	0.67	17.05	28.22	27.30
70%	1.02	0.91	1.95	2.90	4.19	5.61	4.56	5.10	3.69	3.33	2.04	1.44	21.52	33.98	34.44
mean	0.81	0.78	1.79	2.69	3.57	4.46	4.13	4.15	3.37	2.46	1.70	1.16	19.68	31.06	30.86
						•	∕ear-to-	Year D	ata						
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	WARM	ANN	WAT
		,							,			,		_	

Doran Plymouth Wetland Delineation Wetland Determination Data Forms June 29, 2021

Appendix C WETLAND DETERMINATION DATA FORMS



WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site Doran Plymouth	City/County:	Plymouth	n Sampling Date:	4/28/21
Applicant/Owner: Doran Companies		MN		
Investigator(s): Matt Summers, Nick Omodt			, Range: S36 T11	
			e, convex, none):	
Slope (%): <5 Lat: 44.98661963			83 Datum:	
Soil Map Unit Name L30A Medo muck				None
Are climatic/hydrologic conditions of the site typical for this	s time of the year?		f no, explain in remarks)	
Are vegetation X , soil X , or hydrology			Are "normal circum	etances"
Are vegetation, soil, or hydrology _				present? Yes
SUMMARY OF FINDINGS		-	(If needed, explain any an	
Hydrophytic vegetation present? Y				,
Hydric soil present?	Is the s	sampled area	within a wetland?	N
Indicators of wetland hydrology present?		-	d site ID:	
Remarks: (Explain alternative procedures here or in a sep				
The overall project area is significantly disturbed due to o		tion Rossett (Proof yeard to flow through th	sis project area but
was re-aligned in the 1970s for urban development. Much	•		•	
VEGETATION Use scientific names of plants.				
	aluta Daminant	Indicator	Dominance Test Worksh	
i	olute Dominant Cover Species	Indicator Staus	Dominance rest worksh	GG
	•		Number of Dominant Species that are OBL, FACW, or FAC	1 (A)
2				
3			Total Number of Dominan Species Across all Strata	t (B)
4			Dersont of Dominant Species	
5			Percent of Dominant Species that are OBL, FACW, or FAC	
	0 = Total Cove	r		
Sapling/Shrub stratun (Plot size:)		5 40	Prevalence Index Works	heet
	10 Y	FAC_	Total % Cover of:	4 - 0
2			OBL species 0 x 2 FACW species 0 x 2	
3			FAC species 20 x 3	
5			FACU species 0 x 4	
1	10 = Total Cove	r	UPL species 0 x 5	
Herb stratum (Plot size: 5)			Column totals 20 (A) <u>60</u> (B)
1 Carex sp. 9	90 Y	NI	Prevalence Index = B/A =	3.00
	10 N	FAC		
3			Hydrophytic Vegetation	
4			Rapid test for hydroph	-
5			Dominance test is >50	
6			X Prevalence index is ≤3	
			Morphogical adaptatio	
9			supporting data in Rer separate sheet)	narks or on a
10			Problematic hydrophyt	tic vegetation*
	00 = Total Cove	r	(explain)	no vegetation
Woody vine stratum (Plot size:)			*Indicators of hydric soil and we	tland hydrology must be
1			present, unless disturbe	
2			Hydrophytic	
	0 = Total Cove	r	vegetation present? Y	
			present? Y	_
Remarks: (Include photo numbers here or on a separate s	sheet)			

SOIL Sampling Point: W1-up

Profile Des	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix			lox Feat				· ·		
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks		
26	mixed	100	` ` `				loamy and clayey f	fill		
32	N 2.5/	100					muck	buried topsoil, dry and compacted		
,										
*Type: C = 0	Concentration, D	= Deplet	ion, RM = Reduce	ed Matrix	, MS = N	lasked S	and Grains. **Lo	cation: PL = Pore Lining, M = Matrix		
Hydric Sc	il Indicators:						Indicators for P	Problematic Hydric Soils:		
Hist	tisol (A1)		Sar	ndy Gleye	ed Matrix	(S4)	Coast Prairi	e Redox (A16) (LRR K, L, R)		
	tic Epipedon (A2)			ndy Redo		,		e (S7) (LRR K, L)		
	ck Histic (A3)			pped Ma				nese Masses (F12) (LRR K, L, R)		
	lrogen Sulfide (A	4)			ky Minera	al (F1)		w Dark Surface (TF12)		
ı — ·	atified Layers (A5	•		-	ed Matrix	. ,		ain in remarks)		
	n Muck (A10)	,			atrix (F3)			an in remaine)		
	oleted Below Dark	Surface			Surface					
	ck Dark Surface (ark Surfa	` '	*Indicators of	hydrophytic vogetation and weltand		
	ndy Mucky Minera				essions	. ,		hydrophytic vegetation and weltand		
	n Mucky Peat or			иох Бері	C3310113 1	(10)	nydrology m	ust be present, unless disturbed or problematic		
	<u> </u>	`	<u>'</u>							
•	Layer (if observe	ed):								
Type:							Hydric soil pro	esent? N		
Depth (inche	es):									
Remarks:						l				
T Comando.										
HYDROLO										
1	drology Indicate									
Primary Indi	cators (minimum	of one is	required; check	all that a	pply)			y Indicators (minimum of two required)		
Surface	Water (A1)			Aquatic	Fauna (B	13)	Sur	face Soil Cracks (B6)		
High Wa	iter Table (A2)			True Aq	uatic Plar	nts (B14)	Dra	inage Patterns (B10)		
Saturation	on (A3)			Hydroge	n Sulfide	Odor (C	1) Dry	-Season Water Table (C2)		
Water M	arks (B1)			Ovidiaca	l Dhizoon	haraa an	Cra	yfish Burrows (C8)		
Sedimer	nt Deposits (B2)			(C3)	i Knizosp	neres on	Living Roots — Cra	uration Visible on Aerial Imagery (C9)		
Drift Dep	oosits (B3)			Presenc	e of Redu	uced Iron	(C4) Stu	nted or Stressed Plants (D1)		
Algal Ma	at or Crust (B4)			Recent I	ron Redi	iction in T	Ged	omorphic Position (D2)		
Iron Dep	osits (B5)			(C6)	ion ixeuc	iction in i	FAC	C-Neutral Test (D5)		
Inundati	on Visible on Aeria	al Imager	y (B7)	. Thin Mu	ck Surfac	e (C7)				
Sparsely	Vegetated Conca	ave Surfa	ce (B8)	Gauge c	or Well Da	ata (D9)				
Water-S	tained Leaves (B9)		Other (E	xplain in	Remarks)			
Field Obser	vations:									
Surface wat	er present?	Yes	No	X	Depth (i	nches):				
Water table	present?	Yes	No	X	Depth (i	nches):		Indicators of wetland		
Saturation p		Yes	No	X	Depth (i	nches):		hydrology present? N		
(includes ca	pillary fringe)									
Describe red	Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
	, 5 5 , 5,									
Remarks:										
1										
i										
1										

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site Doran Plymouth	City/	County:	Plymout	h Sampling Date:	4/28/21
				Sampling Point:	
Investigator(s): Matt Summers, Nick Omodt				p, Range: S36 T	
Landform (hillslope, terrace, etc.):				/e, convex, none):	
Slope (%): <5 Lat: 44.98670794		_			
Soil Map Unit Name L30A Medo muck				Classification:	
Are climatic/hydrologic conditions of the site typical for					
Are vegetation X, soil X, or hydrology	y_ X_	significantly	disturbed?	Are "normal circur	mstances"
Are vegetation, soil, or hydrology				7.1.0 1.0.111.0.1 0.1.00.1	present? Yes
SUMMARY OF FINDINGS				(If needed, explain any a	nswers in remarks.)
Hydrophytic vegetation present? Y					
Hydric soil present? Y		Is the sa	ampled are	a within a wetland?	Υ
Indicators of wetland hydrology present? Y		f yes, op	tional wetlar	nd site ID: Wetland 1	
Remarks: (Explain alternative procedures here or in a s	separate			· · · · · · · · · · · · · · · · · · ·	
The overall project area is significantly disturbed due			es. Bassett	Creek used to flow through	this project area but
was re-aligned in the 1970s for urban development. Mu					
VEGETATION Use scientific names of plants	 S.				
	Absolute	Dominant	Indicator	Dominance Test Works	sheet
	6 Cover		Staus		
1				Number of Dominant Speci that are OBL, FACW, or FA	es .C:1(A)
2				Total Number of Domina	ant
3				Total Number of Domina Species Across all Strai	ta: (B)
4				Percent of Dominant Speci that are OBL, FACW, or FA	es 400 000/ /A/D)
5		= Total Cover		that are OBL, FACW, of FA	C: 100.00% (A/B)
Sapling/Shrub stratun (Plot size: 15)		- Total Cover		Prevalence Index Work	sheet
1				Total % Cover of:	
2				OBL species 0 x	c 1 = 0
3				FACW species 92 x	
4				FAC species 0 x	(3 = 0
5				· —	4 = 20
	0_=	= Total Cover		· · · — —	(5 = 0
Herb stratum (Plot size: 5)				Column totals 97 (A) <u>204</u> (B)
1 Phalaris arundinacea	85	<u> </u>	FACW	Prevalence Index = B/A	= 2.10
2 Urtica dioica	5	N	FACW	Hadranbadia Vanatatia	a la dia ataus
3 Cirsium arvense 4 Impatiens capensis	<u>5</u>	N	FACW	Hydrophytic Vegetation Rapid test for hydrop	
5			FACW	X Dominance test is >5	, ,
6				X Prevalence index is:	
7				Morphogical adaptat	
8				supporting data in Re	
9				separate sheet)	
10				Problematic hydroph	ytic vegetation*
	97=	= Total Cover		(explain)	
Woody vine stratum (Plot size:)				*Indicators of hydric soil and v	
1				present, unless disturb	bed or problematic
2	0 :	= Total Cover		vegetation	
	0 -	- Total Cover		present? Y	
Remarks: (Include photo numbers here or on a separat	te sheet)			<u> </u>	
	,				

SOIL Sampling Point: W1-wet

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicat	or or confirm the abse	nce of indicators.)	
Depth	Matrix			lox Feat				<u> </u>	
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
24	N 2.5/	100	,		- 		muck		
24	11 2.5/	100					HIGOK		
		= Deplet	ion, RM = Reduce	ed Matrix	MS = N	/lasked S		tion: PL = Pore Lining, M = Matrix	
Hydric So	il Indicators:						Indicators for Pro	blematic Hydric Soils:	
X Hist	tisol (A1)		Sar	ndy Gleye	ed Matrix	(S4)	Coast Prairie I	Redox (A16) (LRR K, L, R)	
Hist	tic Epipedon (A2)		Sar	ndy Redo	x (S5)		Dark Surface	S7) (LRR K, L)	
Blad	ck Histic (A3)		Stri	pped Ma	trix (S6)		Iron-Mangane	se Masses (F12) (LRR K, L, R)	
	lrogen Sulfide (A	4)	 Loa	my Mucl	ky Minera	al (F1)	Very Shallow I	Dark Surface (TF12)	
Stra	atified Layers (A5)	Loa	my Gley	ed Matrix	x (F2)	Other (explain		
2 cr	m Muck (A10)			oleted Ma				•	
	oleted Below Dark	Surface		dox Dark					
	ck Dark Surface (· · —	oleted Da		. ,	*Indicators of hy	drophytic vegetation and weltand	
	ndy Mucky Minera			dox Depr				t be present, unless disturbed or	
	n Mucky Peat or					()	nyarology mas	problematic	
	-								
	Layer (if observe	ea):					Destate and one	10 V	
Type:							Hydric soil pres	ent? Y	
Depth (inche	es):								
Remarks:									
HYDROLO)GY								
	drology Indicate	ors:							
	0.		required; check	all that a	nnlu)		0		
		or one is	required, check			40\		ndicators (minimum of two required)	
_	Water (A1)				Fauna (B			e Soil Cracks (B6)	
	iter Table (A2)				uatic Plar			age Patterns (B10)	
Saturation				. Hyaroge	n Suitide	Odor (C	· — ·	eason Water Table (C2)	
	arks (B1)			Qxidized	Rhizosp	heres on	Living Poots —	sh Burrows (C8)	
_	nt Deposits (B2)			. (63)			Satura	ation Visible on Aerial Imagery (C9)	
	oosits (B3)			•		uced Iron	` '	ed or Stressed Plants (D1)	
_ `	at or Crust (B4)			Recent I	ron Redu	ıction in T		orphic Position (D2) leutral Test (D5)	
	osits (B5)	llmagan		•				vedirai Test (D5)	
	on Visible on Aeria			•	ck Surfac	. ,			
	 Vegetated Concatained Leaves (B9 				or Well Da	Remarks	١		
	,	,		Other (L	.хріані ін		/		
Field Obser		Voo	No	~	Donth (i	inchee).			
Surface wate		Yes	No	$\frac{x}{x}$	Depth (i			ndicators of watland	
Water table	•	Yes	No	$\frac{x}{X}$	Depth (i	-		ndicators of wetland hydrology present? Y	
Saturation p		Yes	INU		Depth (i	inches).		hydrology present? Y	
	includes capillary fringe)								
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Remarks:									
i tomants.									

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site Doran Plymouth	City/C	County:	Plymout	h Samplir	ng Date:	4/28/21
Applicant/Owner: Doran Companies		State:	MN	 Samplin	g Point:	W2-up
Investigator(s): Matt Summers, Nick Omodt		Section	on, Townshi	p, Range:	S36 T11	8N R22W
Landform (hillslope, terrace, etc.):		Local re	elief (concav	e, convex, none):		convex
Slope (%): <5 Lat: 44.98540558		Long:	-93.406389	949 Datum:		
Soil Map Unit Name L30A Medo muck				Classification:		None
Are climatic/hydrologic conditions of the site typical for the	is time o	of the year?	(If no, explain in re	marks)	
Are vegetation X, soil X, or hydrology	X	significantly	disturbed?	Are "nor	mal circums	stances"
Are vegetation, soil, or hydrology		naturally pro	oblematic?			resent? Yes
SUMMARY OF FINDINGS				(If needed, exp	lain any ans	swers in remarks.)
Hydrophytic vegetation present? Y						
Hydric soil present? N		Is the s	ampled area	a within a wetlan	d?	N
Indicators of wetland hydrology present? N		If yes, op	tional wetlar	nd site ID:		
Remarks: (Explain alternative procedures here or in a se	parate r	eport.)				
The overall project area is significantly disturbed due to	-	•	ies. Bassett	Creek used to flow	w through th	is proiect area but
was re-aligned in the 1970s for urban development. Muc					-	
VEGETATION Use scientific names of plants.						
	solute	Dominant	Indicator	Dominance Te	st Worksh	eet
Tree Stratum (Plot size:30) % (Cover	Species	Staus	Number of Dami	t Ci	
1				Number of Domir that are OBL, FA	CW, of FAC:	1(A)
2				Total Number Species Acro	of Dominant	
3				Species Acro	ss all Strata:	1(B)
5				Percent of Domin	ant Species	100.00% (A/B)
	0 =	Total Cover		lilat are OBL, 1 A	CVV, OI 1 AC.	(A/B)
Sapling/Shrub stratun (Plot size: 15)				Prevalence In	dex Worksl	neet
1				Total % Cover	of:	
2				OBL species	0x1	= 0
3				FACW species		
				FAC species		
5	0 =	Total Cover		FACU species UPL species		
Herb stratum (Plot size: 5)		· Total Covel		Column totals	90 (A)	
	90	Υ	FAC	Prevalence Ind	`	3.00
2			17.0	1 Tevalence inc	OX - D// -	
3				Hydrophytic V	egetation I	ndicators:
4				Rapid test	for hydroph	tic vegetation
5				X Dominance	e test is >50	%
6				X Prevalence	e index is ≤3	.0*
7						ns* (provide
8				supporting separate s		narks or on a
10				l — ·	•	ic vegetation*
	90 =	Total Cover		(explain)	c fiyufopfiyt	c vegetation
Woody vine stratum (Plot size:					rio and wat	land hydrology must be
1				1		d or problematic
2				Hydrophy		
	0 =	Total Cover	•	vegetation present?	ı Y	
Demonstra (Include niceta accessor in	ab = = ()			hieseiit!		-
Remarks: (Include photo numbers here or on a separate	sneet)					
Mowed lawn						

SOIL Sampling Point: W2-up

Profile Desc	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm the absen	ce of indicators.)
Depth Matrix Redox Features							<u> </u>	
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
14	mixed	100	,		<u> </u>		loamy dredge spoil fill	lots of small shells
24	10YR 2/1	100						
	1011 2/1	100					muck	buried topsoil, dry, small shells
	1							
					L			L
		= Deplet	ion, RM = Reduce	ed Matrix	, MS = N	lasked S		on: PL = Pore Lining, M = Matrix
	il Indicators:		_					lematic Hydric Soils:
	tisol (A1)			ndy Gleye		(S4)		edox (A16) (LRR K, L, R)
	tic Epipedon (A2)			ndy Redo			Dark Surface (S	
	ck Histic (A3)			pped Ma	, ,			Masses (F12) (LRR K, L, R)
	lrogen Sulfide (A	-		my Mucl	-	. ,		ark Surface (TF12)
	atified Layers (A5)		my Gley			Other (explain in	remarks)
	n Muck (A10)			oleted Ma				
	oleted Below Dark		· · · —	dox Dark				
	ck Dark Surface (oleted Da			*Indicators of hyd	rophytic vegetation and weltand
	ndy Mucky Minera	. ,		dox Depr	essions ((F8)	hydrology must b	pe present, unless disturbed or
5 cr	m Mucky Peat or	Peat (S3	3)					problematic
Restrictive	Layer (if observe	ed):						
Туре:	.,.	,					Hydric soil preser	nt? N
Depth (inche	es):				•		,	
					•			
Remarks:								
Buried hy	ydric soil. Does	not ap	pear likely to m	neet hyd	dric hyd	rology o	criteria. Bassett Creek	and an associated wetland
used to b	e in this location	on. Site	was filled and	graded	for dev	elopme	ent in the 1970s.	
L								
HYDROLO								
1	drology Indicate							
Primary Indi	cators (minimum	of one is	required; check	all that a	pply)		Secondary Inc	dicators (minimum of two required)
Surface	Water (A1)			Aquatic	Fauna (B	13)	Surface	Soil Cracks (B6)
High Wa	iter Table (A2)			True Aqı	uatic Plar	nts (B14)	Drainag	e Patterns (B10)
Saturation	on (A3)			Hydroge	n Sulfide	Odor (C	1) Dry-Sea	son Water Table (C2)
Water M	arks (B1)			Ovidizac	l Dhizoon	horon on	Crayfish	Burrows (C8)
Sedimer	nt Deposits (B2)			(C3)12ec	ı Kılızosp	illeres on	Living Roots — Saturati	on Visible on Aerial Imagery (C9)
Drift Dep	Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)							
	at or Crust (B4)			Recent I	ron Redu	ction in T	illed Solls —	phic Position (D2)
	osits (B5)			• ` ′			FAC-Ne	utral Test (D5)
	on Visible on Aeria			•	ck Surfac	. ,		
─ ' '	Vegetated Conca		ce (B8)		r Well Da	. ,		
	tained Leaves (B9)		Other (E	xplain in	Remarks)	
Field Obser								
Surface water		Yes	No	X	Depth (i	,		
Water table	•	Yes	No	X	Depth (i	-		dicators of wetland
Saturation p		Yes	No	X	Depth (i	nches):	h	ydrology present? N
(includes ca								
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
<u> </u>								
Remarks:								
Ī								

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site Doran Plymouth	City/County:	Plymout	h Sampling Dat	te: 4/28/21			
Applicant/Owner: Doran Companies		e: MN		nt: W2-wet			
Investigator(s): Matt Summers, Nick Omodt		Section, Township, Range: S36 T118N R22W					
Landform (hillslope, terrace, etc.): Basin			re, convex, none):				
Slope (%): n/a Lat: 44.98536221	Long:	-93.40636	365 Datum:				
Soil Map Unit Name L30A Medo muck			Classification:				
Are climatic/hydrologic conditions of the site typical for this	is time of the yea		If no, explain in remarks				
Are vegetation X , soil X , or hydrology	-		Are "normal ci	•			
Are vegetation, soil, or hydrology _		•					
SUMMARY OF FINDINGS			(If needed, explain a	ny answers in remarks.)			
Hydrophytic vegetation present?							
Hydric soil present?	ls th	Is the sampled area within a wetland?					
Indicators of wetland hydrology present?	i	If yes, optional wetland site ID: Wetland 2					
Remarks: (Explain alternative procedures here or in a sep		· ·					
The overall project area is significantly disturbed due to	•	stivities Bassett	Creak used to flow thro	ugh this project area hut			
was re-aligned in the 1970s for urban development. Much	•						
VEGETATION Use scientific names of plants.							
	solute Domina	nt Indicator	Dominance Test Wo				
	solute Domina Cover Specie:						
			Number of Dominant Strat are OBL, FACW, of	pecies r FAC: 0 (A)			
2				``,			
3			Total Number of Dor Species Across all	minant Strata: 0 (B)			
4			Percent of Dominant St	nociae			
5			Percent of Dominant Si that are OBL, FACW, of	FFAC: 0.00% (A/B)			
<u></u>	0 = Total Co	over	Describence Index M	I I			
Sapling/Shrub stratun (Plot size: 15)			Prevalence Index W Total % Cover of:	/orksneet			
1 2			OBL species 0	x 1 = 0			
3			FACW species 0				
4			· —	$- x^2 = 0$			
5			FACU species 0	x 4 = 0			
	0 = Total Co	over	UPL species 0	x 5 = 0			
Herb stratum (Plot size: 5)			Column totals 0	(A) 0 (B)			
1			Prevalence Index = E	3/A =			
2							
3			Hydrophytic Vegeta				
4				drophytic vegetation			
5			Dominance test i				
7							
8				ptations* (provide in Remarks or on a			
9			separate sheet)	II Nemano di on a			
10			I — '	rophytic vegetation*			
	0 = Total Co	over	X (explain)	1 , 3			
Woody vine stratum (Plot size:)			*Indicators of hydric soil a	and wetland hydrology must be			
1			present, unless d	listurbed or problematic			
2			Hydrophytic vegetation				
	0 = Total Co	over	present?	Υ			
Remarks: (Include photo numbers here or on a separate s	chapt)			<u> </u>			
Excavated open water basin. No vegetation w	-	n Ahrunt etek	on hanke lead to mov	wod unland lawn area			
Excavated open water pasin. No vegetation w	/Illilli uic basii	II. Abrupt, sto	th native lead to the	weu upianu iawn arca			

SOIL Sampling Point: W2-wet

Profile Desc	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicat	or or confirm the abse	ence of indicators.)
Depth Matrix Redox Features								
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
14	10YR 2/1	100			<u> </u>		muck and sediment	
								late of amall shalls
24	10YR 4/1	100					mucky silt loam	lots of small shells
		<u> </u>						
	Concentration, D	= Deplet	ion, RM = Reduc	ed Matrix	I, MS = N	/lasked S		tion: PL = Pore Lining, M = Matrix
	il Indicators:							blematic Hydric Soils:
Hist	tisol (A1)		Sar	ndy Gleye	ed Matrix	(S4)	Coast Prairie I	Redox (A16) (LRR K, L, R)
X Hist	tic Epipedon (A2)		Sar	ndy Redo	x (S5)		Dark Surface	S7) (LRR K, L)
Blad	ck Histic (A3)		Stri	pped Ma	trix (S6)		Iron-Mangane	se Masses (F12) (LRR K, L, R)
X Hyd	lrogen Sulfide (A	4)	Loa	my Mucl	ky Minera	al (F1)		Dark Surface (TF12)
	atified Layers (A5		— Loa	my Gley	ed Matrix	x (F2)	Other (explain	
	m Muck (A10)	,		oleted Ma				,
	leted Below Dark	Surface		dox Dark				
	ck Dark Surface (oleted Da			*Indicators of hy	drophytic vegetation and weltand
	ndy Mucky Minera			dox Depr		. ,		t be present, unless disturbed or
	n Mucky Peat or			иох Бері	63310113	(10)	nyurology mus	problematic
			·)					
	Layer (if observe	ed):						
Type:							Hydric soil pres	ent? Y
Depth (inche	es):							
Remarks:								
			. 4 1 . 4 4				1.4	
Excavate	ed basin, receiv	es dire	cted stormwat	er from	nearby	parking	lot.	
L								
HYDROLO								
Wetland Hy	drology Indicate	ors:						
Primary Indi	cators (minimum	of one is	required; check	all that a	pply)		Secondary I	ndicators (minimum of two required)
X Surface	Water (A1)			Aquatic	Fauna (B	13)	Surfac	e Soil Cracks (B6)
X High Wa	iter Table (A2)				uatic Plar			age Patterns (B10)
X Saturation			X			Odor (C		eason Water Table (C2)
	arks (B1)			•		•	Crayfi	sh Burrows (C8)
Sedimer	nt Deposits (B2)			Oxidized (C3)	Rhizosp	heres on	Living Roots — Satura	ation Visible on Aerial Imagery (C9)
Drift Dep	Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)							
Algal Ma	at or Crust (B4)			- Daaaati	D. d.		X Geom	orphic Position (D2)
Iron Dep	osits (B5)			(C6)	ron Real	iction in I	$\frac{X}{\text{FAC-1}}$	Neutral Test (D5)
X Inundation	on Visible on Aeria	al Imager	y (B7)	Thin Mu	ck Surfac	e (C7)	_	
X Sparsely	Vegetated Conca	ve Surfa	ce (B8)	Gauge o	or Well Da	ata (D9)		
Water-S	tained Leaves (B9)		Other (E	xplain in	Remarks)	
Field Observations:								
Surface water		Yes	X No		Depth (i	inches):	10	
Water table		Yes	X No		Depth (i	•		ndicators of wetland
Saturation p	•	Yes	X No		Depth (i	,	0	hydrology present?
(includes ca					(.	· /·		
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarks:								
nomano.								

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site Doran Plymouth	City/County:	Plymouth	n Sampling Date:	4/28/21
Applicant/Owner: Doran Companies	· · · · · · · · · · · · · · · · · · ·	MN		
Investigator(s): Matt Summers, Nick Omodt			p, Range: S36 T	
Landform (hillslope, terrace, etc.): Rise (fill)			e, convex, none):	
Slope (%): n/a Lat: 44.98534381			37 Datum:	
Soil Map Unit Name L30A Medo muck			Classification:	
Are climatic/hydrologic conditions of the site typical for thi			f no, explain in remarks)	
Are vegetation X , soil X , or hydrology	· ·		Are "normal circu	motopoo"
Are vegetation, soil, or hydrology _			Are normal circu	present? Yes
SUMMARY OF FINDINGS			(If needed, explain any a	· —
Hydrophytic vegetation present? Y			(
Hydric soil present?	Is the s	sampled area	within a wetland?	N
Indicators of wetland hydrology present? N		=	d site ID:	
			<u> </u>	
Remarks: (Explain alternative procedures here or in a sep				
The overall project area is significantly disturbed due to was re-aligned in the 1970s for urban development. Much				
		gi	aueu, iiileu, ailu paveu. La	
VEGETATION Use scientific names of plants.			· · · ·	
	solute Dominant	Indicator	Dominance Test Work	sheet
	Cover Species	Staus	Number of Dominant Spec that are OBL, FACW, or FA	ies \C: 1 (A)
			Illiat are OBL, FACW, or FA	AC (A)
3			Total Number of Domina Species Across all Stra	ant ita: 1 (B)
4				``
5			Percent of Dominant Spec that are OBL, FACW, or FA	ies C: 100.00% (A/B)
	0 = Total Cove	r		
Sapling/Shrub stratun (Plot size:)			Prevalence Index Worl	ksheet
1			Total % Cover of:	
2			OBL species 0	
3			FACW species 0	
4			FAC species 90 FACU species 0	x 3 = <u>270</u>
	0 = Total Cove		UPL species 0	
Herb stratum (Plot size: 5)		1		(A) 270 (B)
	90 Y	FAC	Prevalence Index = B/A	
2		170	Frevalence index - b/A	
3			Hydrophytic Vegetatio	n Indicators:
4	-		Rapid test for hydro	
5			X Dominance test is >	
6			X Prevalence index is	≤3.0*
7			Morphogical adapta	tions* (provide
8			supporting data in R	demarks or on a
9			separate sheet)	
10			Problematic hydropl	nytic vegetation*
	90 = Total Cove	r	(explain)	
Woody vine stratum (Plot size:)			*Indicators of hydric soil and	, ,,
			present, unless distui Hydrophytic	rbed or problematic
	0 = Total Cove		vegetation	
	10141 0010	•	present? Y	,
Remarks: (Include photo numbers here or on a separate	sheet)	1		
Mowed lawn				

SOIL Sampling Point: W3-up

Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicat	or or confirm the abs	ence of indicators.)		
Depth	Matrix		Red	dox Feat	ures					
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks		
17	mixed	100	` ` `		<u> </u>		loamy dredge spoil t			
	<u> </u>			-		-				
26	N 2.5/	100					muck	buried topsoil, shells present		
					 	<u> </u>				
*Typo: C = (Concentration D	- Donlot	ion DM - Poduo	nd Matrix	. MS - N	Aackad S	Cond Crains **Loc	ation: PL = Poro Lining M = Matrix		
	Concentration, D	- Deplet	ion, Rivi – Reduct	eu Mairix	i, IVIS – IV	viaskeu s		ation: PL = Pore Lining, M = Matrix		
1 -	oil Indicators:					(0.4)		oblematic Hydric Soils:		
	tisol (A1)			ndy Gleye		(S4)		Redox (A16) (LRR K, L, R)		
	tic Epipedon (A2)			ndy Redo				(S7) (LRR K, L)		
	ck Histic (A3)			pped Ma	. ,			ese Masses (F12) (LRR K, L, R)		
	drogen Sulfide (A		Loa	ımy Mucl	ky Miner	al (F1)	Very Shallow	Dark Surface (TF12)		
Stra	atified Layers (A5))	Loa	my Gley	ed Matri	x (F2)	Other (explain	n in remarks)		
2 cr	m Muck (A10)		Dep	oleted Ma	atrix (F3))				
Dep	oleted Below Dark	Surface	e (A11) Red	dox Dark	Surface	(F6)				
	ck Dark Surface (oleted Da	ark Surfa	ce (F7)	*Indicators of h	ydrophytic vegetation and weltand		
	ndy Mucky Minera	,		dox Depr		` ,		st be present, unless disturbed or		
	n Mucky Peat or			. с. 2 ср.		(. 0)	nyarology ma	problematic		
			· /							
•	Layer (if observe	ed):								
Type:							Hydric soil pres	sent? N		
Depth (inche	es):				_					
Remarks:										
Buried h	ydric soil, liekly	no lon	ger meets hydr	ic hydro	ology cr	iteria.				
HYDROLO	OGY									
Wetland Hy	drology Indicate	ors:								
Primary Indi	cators (minimum	of one is	required check	all that a	nnlv)		Secondary	Indicators (minimum of two required)		
	Water (A1)	01 0110 10	roquirou, orioon		Fauna (B	112)		ce Soil Cracks (B6)		
_								` ,		
_	iter Table (A2)					nts (B14)		age Patterns (B10)		
Saturatio						Odor (C		Season Water Table (C2)		
	larks (B1)			Qxidized	d Rhizosp	heres on	Living Roots —	ish Burrows (C8)		
	nt Deposits (B2)			• (/				ration Visible on Aerial Imagery (C9)		
	posits (B3)			. Presenc	e of Red	uced Iron	<u>—</u>	red or Stressed Plants (D1)		
_ `	at or Crust (B4)			Recent I	ron Redu	uction in 1	illed Solls —	norphic Position (D2)		
	oosits (B5)			• ' '			FAC-	Neutral Test (D5)		
	on Visible on Aeria			-	ck Surfac	. ,				
	Vegetated Conca		ce (B8)		or Well Da	, ,				
Water-S	tained Leaves (B9)		Other (E	xplain in	Remarks	5)			
Field Obser	vations:									
Surface wat	er present?	Yes	No	Χ	Depth (inches):				
Water table	present?	Yes	No	X	Depth (inches):		Indicators of wetland		
Saturation p	resent?	Yes	No	X	Depth (hydrology present? N		
	pillary fringe)				• • •	,				
		am dalid	e monitoring wel	l aerial n	hotos n	revious i	nspections), if available	· · · · · · · · · · · · · · · · · · ·		
	orada data (otroc	ani gaag	o, morntoring wor	i, aonai p	,,,отоо, р	10110001	nopodiono), n avanabie	•		
Remarks:										
i tomanto.										

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site Doran Plymouth City/County: Plymouth Sampling Date: 4/2	28/21
Applicant/Owner: Doran Companies State: MN Sampling Point: W3	
Investigator(s): Matt Summers, Nick Omodt Section, Township, Range: S36 T118N R22	w
Landform (hillslope, terrace, etc.): Basin Local relief (concave, convex, none): concave	'e
Slope (%): n/a Lat: Long: Datum:	
Soil Map Unit Name L30A Medo muck NWI Classification: PUBHx	
Are climatic/hydrologic conditions of the site typical for this time of the year? (If no, explain in remarks)	
Are vegetation X , soil X , or hydrology X significantly disturbed? Are "normal circumstances	"
Are vegetation, soil, or hydrology naturally problematic? present	
SUMMARY OF FINDINGS (If needed, explain any answers in	n remarks.)
Hydrophytic vegetation present? Y	
Hydric soil present? Y Is the sampled area within a wetland? Y	_
Indicators of wetland hydrology present? Y If yes, optional wetland site ID: Wetland 3	
Remarks: (Explain alternative procedures here or in a separate report.)	
The overall project area is significantly disturbed due to development activities. Bassett Creek used to flow through this project	ct area but
was re-aligned in the 1970s for urban development. Much of the project area has been graded, filled, and paved. Lawn areas	
VEGETATION Use scientific names of plants.	
Absolute Dominant Indicator Dominance Test Worksheet	
Tree Stratum (Plot size: 30) % Cover Species Staus	
Number of Dominant Species that are OBL, FACW, or FAC:	(A)
2 Total Number of Dominant Species Across all Strata: 0	(D)
3 Species Across all Strata:	(B)
5 Percent of Dominant Species that are OBL, FACW, of FAC: 0.00)% (A/B)
that are OBL, FACW, or FAC: that are OBL, FACW, or FAC:	(170
Sapling/Shrub stratun (Plot size: 15) Prevalence Index Worksheet	
1 Total % Cover of:	
2 OBL species 0 x 1 =	0
3 FACW species 0 x 2 =	0
4 FAC species x 3 =	0
5 FACU species 0 x 4 = 0 = Total Cover UPL species 0 x 5 =	0
UPL species 0 x 5 = Herb stratum (Plot size: 5) Column totals 0 (A)	0 0 (B)
	<u>U</u> (D)
1 Prevalence Index = B/A =	
3 Hydrophytic Vegetation Indicate	
4 Rapid test for hydrophytic veg	
5 Dominance test is >50%	
6 Prevalence index is ≤3.0*	
7 Morphogical adaptations* (pro	vide
8 supporting data in Remarks of	r on a
9 separate sheet)	
10 Problematic hydrophytic vege 0 = Total Cover X (explain)	tation*
Woody vine stratum (Plot size:	
*Indicators of hydric soil and wetland hyd present, unless disturbed or prob	
2 Hydrophytic	Ciriatio
0 = Total Cover vegetation	
present? Y	
Remarks: (Include photo numbers here or on a separate sheet)	
Excavated open water basin. No vegetation within the basin. Abrupt, steep banks lead to mowed upland	lawn area

SOIL Sampling Point: W3-wet

Profile Des	cription: (Descr	ibe to th	e depth	needed	to docu	ment the	e indicat	or or confirm tl	ne absend	e of indicators.)
Depth	Matrix			Red	dox Feat	ures				
(Inches)	Color (moist)	%	Color ((moist)	%	Type*	Loc**	Texture	e	Remarks
13	10YR 2/1	100						muck and sec	diment	
24	10YR 4/1	100						mucky silt loa		
	1011(4/1	100						Thuoky Sit loa		
		,		-						
*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix										
		= Deplet	ion, RM =	Reduce	ed Matrix	I, MS = N	/lasked S			n: PL = Pore Lining, M = Matrix
-	il Indicators:			_						ematic Hydric Soils:
	tisol (A1)				ndy Gleye		(S4)			dox (A16) (LRR K, L, R)
	tic Epipedon (A2)		,		ndy Redo					') (LRR K, L)
	ck Histic (A3)		,		pped Ma	. ,				Masses (F12) (LRR K, L, R)
	lrogen Sulfide (A	•			ımy Mucl	-	. ,			rk Surface (TF12)
	atified Layers (A5)			ımy Gley			Other (explain in	remarks)
	m Muck (A10)			·	oleted Ma	, ,				
	oleted Below Dark		e (A11)		dox Dark		. ,			
	ck Dark Surface (oleted Da		. ,			ophytic vegetation and weltand
	ndy Mucky Minera			Red	dox Depr	essions	(F8)	hydrolo	gy must be	e present, unless disturbed or
5 cr	m Mucky Peat or	Peat (S3	3)							problematic
Restrictive	Layer (if observe	ed):								
Туре:	, , , , , , , , , , , , , , , , , , , ,	,						Hvdric so	oil presen	t? Y
Depth (inche	es):					•				
i '						•				
Remarks:										
Excavate	ed basin									
L										
HYDROLO										
	drology Indicate									
Primary Indi	cators (minimum	of one is	required	l; check	all that a	pply)		Seco	ndary Ind	icators (minimum of two required)
X Surface	Water (A1)				Aquatic	Fauna (B	313)		Surface S	Soil Cracks (B6)
High Wa	iter Table (A2)				True Aq	uatic Plar	nts (B14)		_ Drainage	Patterns (B10)
Saturation	on (A3)			X	Hydroge	n Sulfide	Odor (C	1)	Dry-Seas	son Water Table (C2)
Water M	larks (B1)				- Ovidizor	l Dhizoon	horos on	Living Boots —	Crayfish	Burrows (C8)
Sedimer	nt Deposits (B2)				(C3)	ı Kılızosp	meres on	Living Roots —	_ Saturatio	n Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)				Presenc	e of Red	uced Iron	(C4)	Stunted of	or Stressed Plants (D1)
Algal Ma	at or Crust (B4)				Recent I	ron Redi	ıction in T	Illed Soils X		phic Position (D2)
	osits (B5)				(66)	ion Reac		illed Soils X	_ FAC-Neu	ıtral Test (D5)
	on Visible on Aeria				-	ck Surfac	. ,			
	Vegetated Conca		ce (B8)			or Well Da				
	tained Leaves (B9)			Other (E	xplain in	Remarks)		
Field Obser	vations:									
Surface wat	er present?	Yes	X	No		Depth (i	inches):	12		
Water table	•	Yes		No	X	Depth (i			•	icators of wetland
Saturation p		Yes		No	X	Depth (i	inches):		hy	drology present? Y
(includes ca	pillary fringe)								<u> </u>	
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks:										

Project Name and/or Number: 10000 Highway 55 Delineation

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: Doran RE Partners, LLC

Mailing Address: 7803 Glenroy Road, Suite 200

Bloomington, MN 55439

Phone: 952-288-2089

E-mail Address:

Authorized Contact (do not complete if same as above): Cody Dietrich

Mailing Address: above Phone: 952-288-2089

E-mail Address: Cody.dietrich@dorancompanies.com

Agent Name: Matthew Summers, Stantec

Mailing Address: 2080 Wooddale Drive, Suite 100, Woodbury, MN 55125

Phone: 612-227-0017

E-mail Address: matthew.summers@stantec.com

PART TWO: Site Location Information

County: Hennepin

City/Township: Plymouth

Parcel ID and/or Address: 10000 Highway 55 (PIDs 3611822130010 and 3611822420018)

Legal Description (Section, Township, Range): SE1/4 S36 T118 R22

Lat/Long (decimal degrees):

Attach 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): 7.5 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.

This is an application for a wetland delineation type and boundary approval for re-development purposes.

Project Name and/or Number: 10000 Highway 55 Delineation

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)".

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 a provided. Regulatory entities will not initiate a formal application review if this box	•
By signature below, I attest that the information in this application is complete and a authority to undertake the work described herein. I hereby authorize STANTEC CO behalf as my agent in the processing of this application and to furnish, upon request application.	NSULTING SERVICES INC. to act on my
	6/24/2021

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.

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.

Project Name and/or Number: 10000 Highway 55 Delineation

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):

(Corps) and/or the wetland Conservation Act Local Government Unit (LGU) provide me with the following (check all that apply):
Wetland Boundary and 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 <i>Guidelines for Submitting Wetland Delineations in Minnesota</i> (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

06/30/2021

Regulatory File No. MVP-2021-01253-MJB

THIS IS NOT A PERMIT

Matthew Summers Stantec Consulting Services Inc. 2080 Wooddale Drive Woodbury, MN 55125

Dear Mr. Summers:

We have received your submittal described below. You may contact the Project Manager with questions regarding the evaluation process. The Project Manager may request additional information necessary to evaluate your submittal.

File Number: MVP-2021-01253-MJB

Applicant: Cody Dietrich

Project Name: 10000 Highway 55

Project Location: Section 36 of Township 118 N North, Range 22 W, Hennepin County,

Minnesota (Latitude: 44.9848495223683; Longitude: -93.4061604699005)

Received Date: 06/29/2021

Project Manager: Meghan Brown

(651) 290-5688

Meghan.J.Brown@usace.army.mil

Additional information about the St. Paul District Regulatory Program can be found on our web site at http://www.mvp.usace.army.mil/missions/regulatory.

Please note that initiating work in waters of the United States prior to receiving Department of the Army authorization could constitute a violation of Federal law. If you have any questions, please contact the Project Manager.

Thank you.

U.S. Army Corps of Engineers St. Paul District Regulatory Branch



Minnesota Wetland Conservation Act Notice of Application

Local Government Unit: City of Plymouth County: Hennepin	
Applicant Name: Hollydale Golf Course Development, Inc.	
Applicant Name: Honydale Gon Course Development, Inc. Applicant Representative: Melissa Barrett, Kjolhaug Environmental Services	
Project Name: Hollydale Sanitary Sewer Connection	
LGU Project No. (if any): 2021-12	
Date Complete Application Received by LGU: 7-19-2021	
Date this Notice was Sent by LGU: 8-10-2021	
Date that Comments on this Application Must Be Received By LGU¹: 9-1-2021	
¹ minimum 15 business day comment period for Boundary & Type, Sequencing, Replacement Plan and Bank Plan Applications	
WCA Decision Type - check all that apply	
☐ Wetland Boundary/Type ☐ Sequencing ☐ Replacement Plan ☐ Bank Plan (not credit purchase)	
□ No-Loss (8420.0415)	
Part: □ A □ B □ C □ D □ E □ F □ G □ H Subpart: □ 2 □ 3 □ 4 □ 5 ☒ 6 □ 7 □ 8 □ 9	
Replacement Plan Impacts (replacement plan decisions only)	
Total WCA Impact Area Proposed:	
Application Materials	
\boxtimes Attached \square Other ¹ (specify):	
Link to ftp or other accessible file sharing sites is acceptable.	
Comments on this application should be sent to:	
LGU Contact Person: Ben Scharenbroich, Water Resources Supervisor	
E-Mail Address: bscharenbroich@plymouthmn.gov	_
Address and Phone Number: 3400 Plymouth Blvd, Plymouth, MN 55447	
Decision-Maker for this Application:	
Staff □ Governing Board/Council □ Other (specify):	
Notice Distribution (include name)	
Required on all notices:	
SWCD TEP Member: Ms. Stacey Lijewski, HCA, 701 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600	
BWSR TEP Member: Ben Carlson, BWSR, 520 Lafayette Road North, St. Paul, MN 55401	
☐ LGU TEP Member (if different than LGU contact):	
□ DNR Representative: Melissa Collins, MnDNR, 1200 Warner Road, St. Paul, MN 55106	
Lucas Youngsma, MnDNR, 1200 Warner Road, St. Paul, MN 55106	
☑ Watershed District or Watershed Mgmt. Org.: BCWMC, c/o Laura Jester, 16145 Hillcrest Lane N, Eden Prairie	
MN 55346	
☑ Applicant (notice only): Hollydale Golf Course Development, Inc. c/o Jake Walesch, 10850 Old County Roa	t
15, suite 200, Plymouth MN 55441	
Agent/Consultant (notice only): Melissa Barrett, Kjolhaug Environmental Services, 2500 Shadyview Road,	
Suite 130, Orono MN 55331	
Optional or As Applicable:	

☐ BWSR Wetland Mitigation Coordinator (required for bank plan applications only):						
	e Public (notice only):					
David & Janet K	lis, 16710 45th Avenue North, Plymo	outh MN 55446				
Fan Fan 16720 4	5th Avenue North, Plymouth MN 55	5446				
Jean Bachman 1	Jean Bachman 16730 45th Avenue North, Plymouth MN 55446					
	☑ Other:					
Signature: Date:						
	Ben Schamback	08/10/2021				

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.



Memorandum

Date: July 15, 2021

To: Ben Scharenbroich, City of Plymouth

Project Manager, U.S. Army Corps of Engineers (USACE)

Cc: Jake Walesch, Hollydale Golf Course Development, Inc.

Eric Johnson, Sathre-Berquist

From: Melissa Barrett, Kjolhaug Environmental Services Company

Re: WCA Utility Exemption Application

USACE Utility Regional General Permit Application

Hollydale Sanitary Sewer Connection, Plymouth (KES#2021-100)

The Hollydale Sanitary Sewer Connection project is located in Section 8, Township 118 North, Range 22 West, City of Plymouth, Hennepin County, Minnesota. The project site is generally situated north of MN State Highway 55 and west of Vicksburg Lane (**Figure 1**).

The Joint Application Form for Activities Affecting Water Resources in Minnesota is included as **Attachment A**.

Wetland Delineation

Nine (9) wetlands delineated on the project site by Kjolhaug Environmental Services (KES) in August of 2019 (**Figure 2**). The previously submitted *Hollydale Golf Course Wetland Delineation Report* discussed the delineation in more detail and included National Wetland Inventory (NWI) and soil survey mapping. Copies of the report and delineation approvals are available upon request.

Proposed Project

The purpose of the project is to connect sanitary sewer associated with the Hollydale residential development to existing sewer located along the south-central site boundary. Installation of the new sewer line will result in 20,482 sf (0.47-ac) of temporary excavation impact to Wetland 6 (**Figure 2 and Attachment B**). Once the new utilities have been installed, Wetland 6 will be restored to pre-existing grades and will be seeded with State Seed Mix 34-371 (Wet Meadow Northeast).

Requested Approvals

According to MN WCA Rule Mn WCA Rule 8420.0420 EXEPMTION STANDARDS Subp.6. Utilities:

"A. A replacement plan is not required for impacts resulting from: (1) installation, maintenance, repair, or replacement of utility lines, including pipelines, if: (a) the impacts have been avoided and minimized to the extent possible; and (b) the proposed project significantly modifies or alters less than one-half acre of wetlands."

Proposed impact to Wetland 6 has been minimized to the extent possible by only excavating within that portion of Wetland 6 required for sewer installation. The temporary impact amount (0.47-ac) is less than one-half acre. With submission of this memo, we are requesting that the City of Plymouth provide concurrence that the proposed temporary impact to Wetland 6 qualifies for a WCA Utility Exemption.

The proposed plan also meets U.S. Army Corps of Engineers (USACE) Utility Regional General Permit (RGP) criteria. Because the 0.47-ac of temporary excavation impact to Wetland 6 will not result in the cumulative permanent loss of 0.5 acre or greater of waters of the U.S., a permit from the USACE is not required.

Thank you.

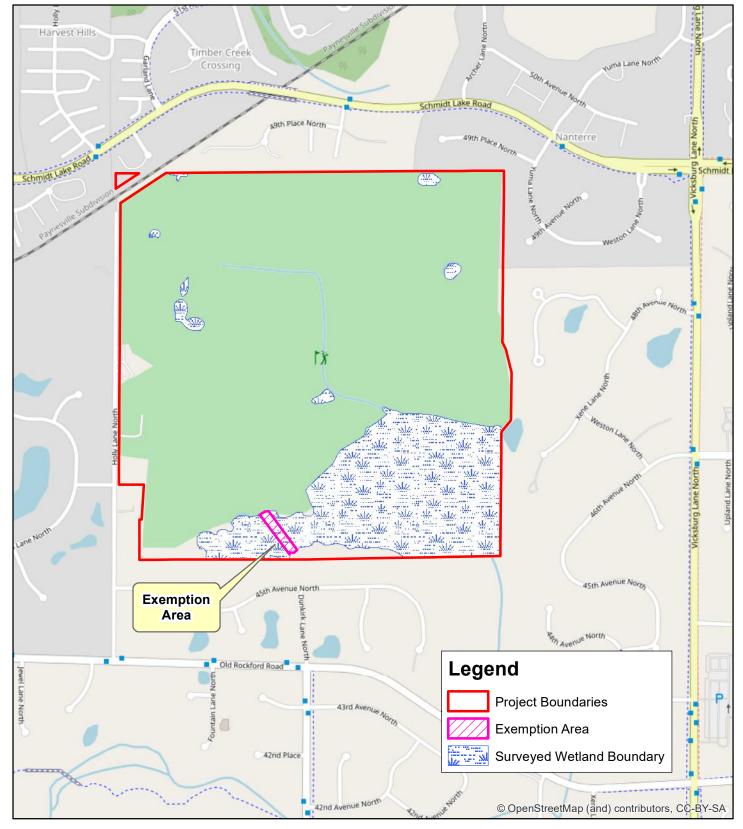
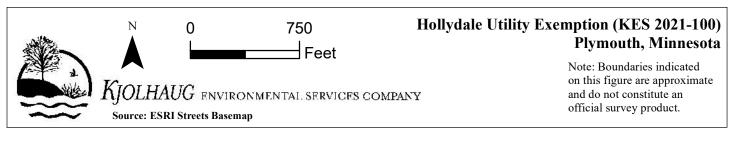


Figure 1 - Site Location & Exemption Area



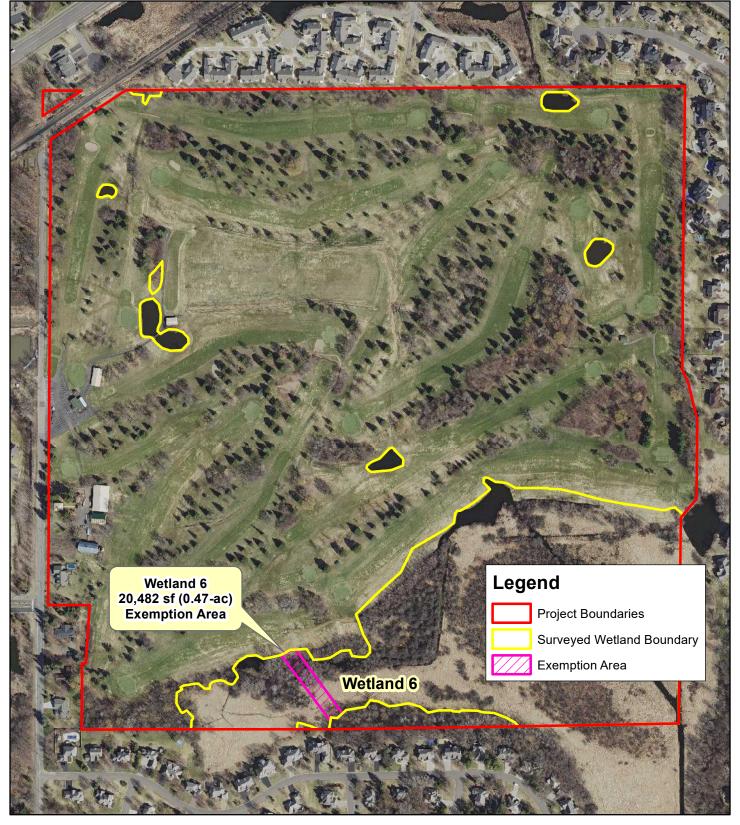
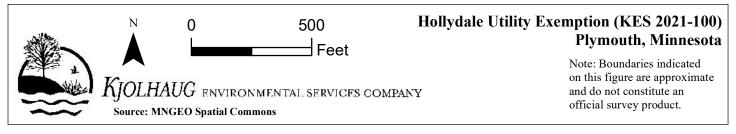


Figure 2 - Existing Conditions



Hollydale Sanitary Sewer Connection, Plymouth

Attachment A

Minnesota Joint Application Form for Activities Affecting Water Resources

Project Name and/or Number: Hollydale Sanitary Sewer Connection, Plymouth (KES#2021-100)

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: Jake Walesch, Hollydale Golf Course Development, Inc.

Mailing Address: 10850 Old County Road 15, Suite 200, Plymouth MN 55441

Phone: 612-749-1360

E-mail Address: Jake@Jakewalesch.com

Authorized Contact (do not complete if same as above):

Mailing Address:

Phone:

E-mail Address:

Agent Name: Melissa Barrett, Kjolhaug Environmental Services

Mailing Address: 2500 Shadywood Road, Suite 130, Orono, MN 55331

Phone: 952-388-3752

E-mail Address: melissa@kjolhaugenv.com

PART TWO: Site Location Information

County: Hennepin City/Township: Plymouth

Parcel ID and/or Address: 0811822340014, 0811822310001 Legal Description (Section, Township, Range): Sec 8, T118, R22

Lat/Long (decimal degrees):

Attach 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): 0.47-ac

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.

See attached utility exemption memo.

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
Wetland 6	Wetland	Excavation	Т	0.47-ac		Wet meadow	Henn, 20, 7
						and seasonally	
						flooded basin	

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)".

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: Date: 07-14-21							
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.							

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.

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.

Project Name and/or Number: Hollydale Sanitary Sewer Connection, Plymouth (KES#2021-100)

Attachment B

Supporting Information for Applications Involving Exemptions, No Loss Determinations, and Activities Not Requiring Mitigation

Complete this part **if** you maintain that the identified aquatic resource impacts in Part Four do not require wetland replacement/compensatory mitigation OR **if** you are seeking verification that the proposed water resource impacts are either exempt from replacement or are not under CWA/WCA jurisdiction.

Identify the specific exemption or no-loss provision for which you believe your project or site qualifies:

MN WCA Rule Mn WCA Rule 8420.0420 EXEPMTION STANDARDS Subp.6. Utilities: "A. A replacement plan is not required for impacts resulting from: (1) installation, maintenance, repair, or replacement of utility lines, including pipelines, if: (a) the impacts have been avoided and minimized to the extent possible; and (b) the proposed project significantly modifies or alters less than one-half acre of wetlands."

Provide a detailed explanation of how your project or site qualifies for the above. Be specific and provide and refer to attachments and exhibits that support your contention. Applicants should refer to rules (e.g. WCA rules), guidance documents (e.g. BWSR guidance, Corps guidance letters/public notices), and permit conditions (e.g. Corps General Permit conditions) to determine the necessary information to support the application. Applicants are strongly encouraged to contact the WCA LGU and Corps Project Manager prior to submitting an application if they are unsure of what type of information to provide:

See attached utility exemption memo.

Project Name and/or Number: Hollydale Sanitary Sewer Connection, Plymouth (KES#2021-100)

Attachment C Avoidance and Minimization

Project Purpose, Need, and Requirements. Clearly state the purpose of your project and need for your project. Also include a description of any specific requirements of the project as they relate to project location, project footprint, water management, and any other applicable requirements. Attach an overhead plan sheet showing all relevant features of the project (buildings, roads, etc.), aquatic resource features (impact areas noted) and construction details (grading plans, storm water management plans, etc.), referencing these as necessary:

See attached utility exemption memo.

Avoidance. Both the CWA and the WCA require that impacts to aquatic resources be avoided if practicable alternatives exist. Clearly describe all on-site measures considered to avoid impacts to aquatic resources and discuss at least two project alternatives that avoid all impacts to aquatic resources on the site. These alternatives may include alternative site plans, alternate sites, and/or not doing the project. Alternatives should be feasible and prudent (see MN Rules 8420.0520 Subp. 2 C). Applicants are encouraged to attach drawings and plans to support their analysis:

See attached utility exemption memo.

Minimization. Both the CWA and the WCA require that all unavoidable impacts to aquatic resources be minimized to the greatest extent practicable. Discuss all features of the proposed project that have been modified to minimize the impacts to water resources (see MN Rules 8420.0520 Subp. 4):

See attached utility exemption memo.

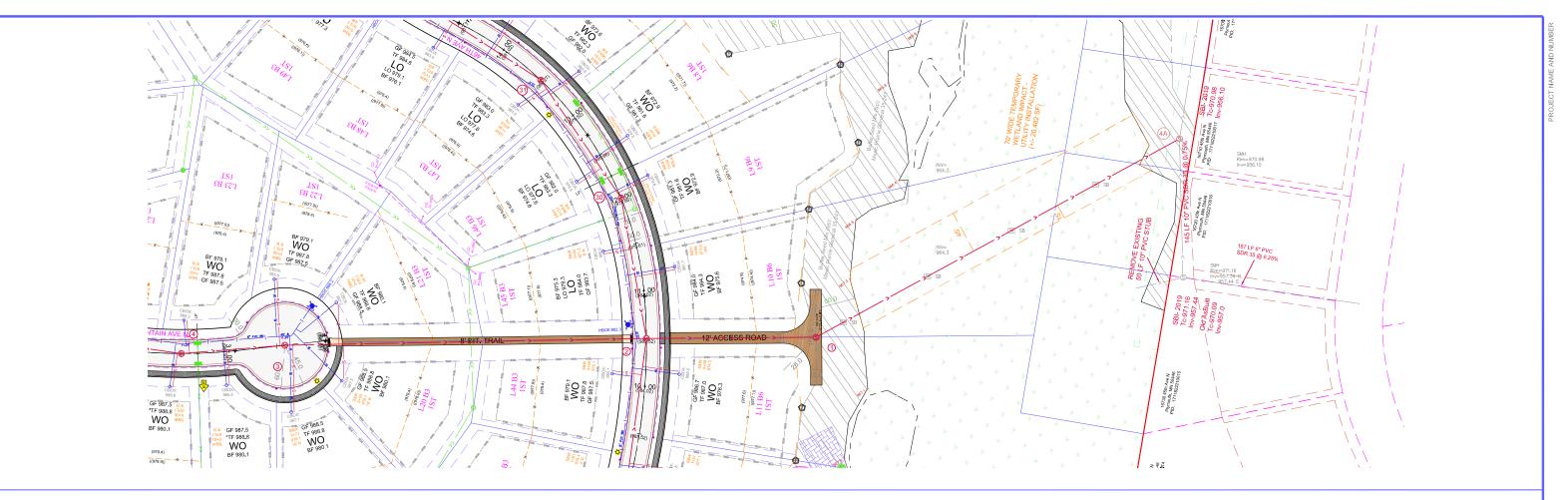
Off-Site Alternatives. An off-site alternatives analysis is not required for all permit applications. If you know that your proposal will require an individual permit (standard permit or letter of permission) from the U.S. Army Corps of Engineers, you may be required to provide an off-site alternatives analysis. The alternatives analysis is not required for a complete application but must be provided during the review process in order for the Corps to complete the evaluation of your application and reach a final decision. Applicants with questions about when an off-site alternatives analysis is required should contact their Corps Project Manager.

NA

Hollydale Sanitary Sewer Connection, Plymouth

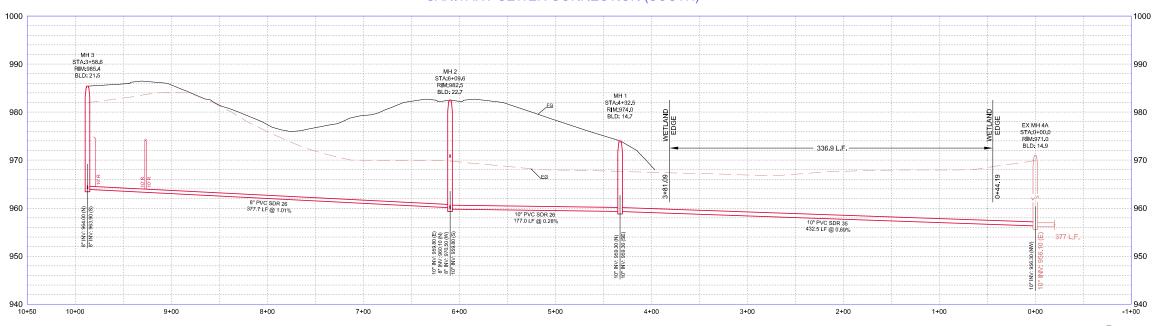
Attachment B

Sanitary Sewer Plan





SANITARY SEWER CONNECTION (SOUTH)



EXISTING UTILITIES SHOWN ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ANY AND ALL EXISTING UTILITIES SEFORE COMMENCING WORK, HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES ANSING OUT OF HIS FAILURE TO EXACTLY LOCATE AND PRESENVE ANY AND ALL DESIGNS UTILITIES.

DRAWING NAME	NO.	BY	DATE	REVISIONS
HD - SW				
DRAWN BY				
ERJ			[
CHECKED BY			[
RSM			Γ	
DATE		1	Γ	
00/00/04				

USE (INCLUDING COPYING, DISTRIBUTION, AND/OR CONVEYANCE OF INFORMATION) OF THIS PRODUCT IS STRICTLY PROHIBITED WITHOUT SAID AUTHORIZATION, USE WITHOUT SAID AUTHORIZATION CONSTITUTES AN ILLEGITIMATE USE AND SHALL THEREBY INDEMNIFY SATHRE-BERGQUIST, INC. OF ALL RESPONSIBILITY.

SATHRE-BERGQUIST, INC. RESERVES THE RIGHT TO HOLD ANY ILLEGITIMATE USER OR PARTY LEGALLY RESPONSIBLE FOR DAMAGES OR LOSSES RESULTING FROM ILLEGITMATE USE.

ROBERT S. MOLSTAD, P.E. Date: 06/30/2/ Llc. No. 26428



oRS	SATHRE-BERGQUIST, INC.
S	150 SOUTH BROADWAY WAYZATA, MN. 55391 (952) 476-6000

CITY PROJECT NO.
DIVMOLITU
PI YIVIOOTH.

MINNESOTA

FINAL SANITARY SEWER & WATERMAIN PLAN

HOLLYDALE

FILE NO. 3120-077 13

SCALE IN FEET

HOLLYDALE GC DEVELOPMENT, INC

48



Minnesota Wetland Conservation Act Notice of Decision

Local Government Unit: City of Plymouth	County: Hennepin				
Applicant Name: Stan and Marlys Nederhoff					
Applicant Representative: Dylan Kruzel					
Project Name: 18005 30th Avenue North					
LGU Project No. (if any): 2021-09					
Date Complete Application Received by LGU: 6	/11/2021				
Date of LGU Decision: 8/10/2021					
Date this Notice was Sent: 8/10/2021					
WCA Decision Type - check all that apply					
☑ Wetland Boundary/Type ☐ Sequencing	☐ Replacement Plan ☐ Bank Plan (not credit purchase)				
☐ No-Loss (8420.0415)	☐ Exemption (8420.0420)				
Part: □ A □ B □ C □ D □ E □ F □ G □ H	Subpart: □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9				
Replacement Plan Impacts (replacement plan dec	cisions only)				
Total WCA Wetland Impact Area:					
Wetland Replacement Type: Project Specification Project Specification	c Credits:				
☐ Bank Credits:					
Bank Account Number(s):					
Technical Evaluation Panel Findings and Recomn	nendations (attach if any)				
☐ Approve ☐ Approve w/Conditions ☐ De	ny 🗵 No TEP Recommendation				
LGU Decision					
☐ Approved with Conditions (specify below)¹	$oxed{oxed}$ Approved 1 $oxed{\Box}$ Denied				
List Conditions:	E Periled				
List conditions.					
Decision-Maker for this Application: Staff □ Governing Board/Council □ Other:					
bedsion maker for this Application is stain	2 Governing Boardy Council 22 Others				
Decision is valid for: \boxtimes 5 years (default) \square Oth	er (specify):				
¹ <u>Wetland Replacement Plan</u> approval is not valid until BWSF	R confirms the withdrawal of any required wetland bank credits. For project-				
specific replacement a financial assurance per MN Rule 8420	.0522, Subp. 9 and evidence that all required forms have been recorded on				
the title of the property on which the replacement wetland is	located must be provided to the LGU for the approval to be valid.				
LGU Findings – Attach document(s) and/or insert	narrative providing the basis for the LGU decision ¹ .				
⊠ Summary: The wetland boundary is app	proved as presented in the report				
¹ Findings must consider any TEP recommendations.					
Attached Project Documents					
☐ Site Location Map ☐ Project Plan(s)/Descrip	otions/Reports (specify):				

Appeals of LGU Decisions

If you wish to <u>appeal</u> this decision, you must provide a written request <u>within 30 calendar days of the date you received the notice</u>. All appeals must be submitted to the Board of Water and Soil Resources Executive Director along with a check payable to BWSR for \$500 *unless* the LGU has adopted a local appeal process as identified below. The check must be sent by mail and the written request to appeal can be submitted by mail or e-mail. The appeal should include a copy of this notice, name and contact information of appellant(s) and their representatives (if applicable), a statement clarifying the intent to appeal and supporting information as to why the decision is in error. Send to:

Appeals & Regulatory Compliance Coordinator Minnesota Board of Water & Soils Resources 520 Lafayette Road North St. Paul, MN 55155

travis.germundson@state.mn.us	
Does the LGU have a <u>local appeal process</u> applicable to this decision?	
¹ If yes, all appeals must first be considered via the local appeals process.	
Local Appeals Submittal Requirements (LGU must describe how to appeal, sub	omittal requirements, fees, etc. as applicable)
Notice Distribution (include name)	
Required on all notices:	
	enue South, Suite 700, Minneapolis,
MN 55415-1600	
	n, St. Paul, MN 55401
☑ LGU TEP Member (if different than LGU contact): Ben Scharenbroich, 34	400 Plymouth Blvd, Plymouth MN
55447	
□ DNR Representative: Melissa Collins, MnDNR, 1200 Warner Road, Lucas Youngsma, MnDNR, 1200 Warner Road	
☑ Watershed District or Watershed Mgmt. Org.: MCWD, 15320 Minneton	nka Blvd Minnetonka MN 55345
☑ Applicant: Stan and Marlys Nederhoff, 3 Quarry Road, Mason City I	A 50410
☐ Agent/Consultant: Dylan Kruzel, Anderson Engineering, 13605 1st Av	venue N, Suite 100 Plymouth MN 55441
Optional or As Applicable:	
☐ Corps of Engineers: USACOE c/o Samantha Coungeris, 180 5th Stre	eet East, Suite 700, St. Paul MN 55101-
1678	
☐ BWSR Wetland Mitigation Coordinator (required for bank plan applications	s only):
☐ Members of the Public (notice only): ☐ Oth	ner:
Signature. F	Data.
R. C.	Date:
Chambardel (08/10/2021

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.



Minnesota Wetland Conservation Act Notice of Application

Local Government Unit: City of F	Plymouth County: Hennepin
Applicant Name: Stan & Marlys Ne	
Applicant Representative: Dylan Kr	
Project Name: 18005 30th Avenue	
LGU Project No. (if any): 2021-09	
Date Complete Application Receive	d by LGU: 6/11/2021
Date this Notice was Sent by LGU:	•
Date that Comments on this Applica	ation Must Be Received By LGU¹: 7/14/2021
¹ minimum 15 business day comment period fo	or Boundary & Type, Sequencing, Replacement Plan and Bank Plan Applications
WCA Decision Type - check all that ap	pply
	equencing Replacement Plan Bank Plan (not credit purchase)
□ No-Loss (8420.0415)	☐ Exemption (8420.0420)
Part: 🗆 A 🗆 B 🗆 C 🗆 D 🗆 E 🗀	·
	·
Replacement Plan Impacts (replacem	ent plan decisions only)
Total WCA Impact Area Proposed:	
Application Materials	
\boxtimes Attached \square Other ¹ (specify):	
¹ Link to ftp or other accessible file sharin	g sites is acceptable.
Comments on this application should	the sent to:
LGU Contact Person: Ben Scharenbr	
E-Mail Address: bscharenbroich@pl	•
	Plymouth Blvd, Plymouth, MN 55447
Decision-Maker for this Application	
Staff □ Governing Board/Cour	
⊠ Stan □ Governing Board/Codi	icii 🗀 Other (specify).
Notice Distribution (include name)	
Required on all notices:	
⊠ SWCD TEP Member: Ms. Stacey Lijev	vski, HCA, 701 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600
☑ BWSR TEP Member: Ben Carlson, B\	NSR, 520 Lafayette Road North, St. Paul, MN 55401
☐ LGU TEP Member (if different than Lo	
•	llins, MnDNR, 1200 Warner Road, St. Paul, MN 55106
Lucas Youn	gsma, MnDNR, 1200 Warner Road, St. Paul, MN 55106
	mt. Org.: MCWD, 15320 Minnetonka Blvd, Minnetonka MN 55345
_	5 Hillcrest Lane, Eden Prairie MN 55346
-	Marlys Nederhoff, 3 Quarry Road, Mason City IA 50401
1	rlan Kruzel, Anderson Engineering, 13605 1st Avenue N, Suite 100
Plymouth MN 55441	, , , , , , , , , , , , , , , , , , , ,

☑ Corps of Engineers: USACOE c/o Samantha Coungeris, 180 5th Street East, Suite 700, St. Paul MN 55101-

Optional or As Applicable:

☐ BWSR Wetland Mitigation Coordinator (required for bank plan applications only):					
☐ Members of the Public (notice only):	☐ Other:				
Signature:	Date:				
Ben Schambach	6/21/2021				

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.







WETLAND INVESTIGATION

NEDERHOFF PROPERTY

18005 30TH AVE N (PID: 1911822420035) PLYMOUTH, MINNESOTA

> MAY 20TH, 2021 AE JOB NO. 16497



ANDERSON

13605 1st Avenue North #100, Plymouth, MN 55441 **P** 763.412.4000 **F** 763.412.4090 **ae-mn.**com



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Appendix C ANTECEDENT PRECIPITATION RECORD

Appendix D MINNESOTA ROUTINE ASSESSMENT METHODOLOGY (MnRAM)

Appendix E CREDENTIALS

CONTACT INFORMATION

PREPARED FOR:

Marlys Nederhoff 3 Quarry Road Mason City, Iowa 50401 (641) 424-2375 nederhoff2003@yahoo.com

PREPARED BY:

Dylan Kruzel Environmental Scientist

Alex Yellick Senior Environmental Scientist Certified MN Wetland Delineator #1354

Ben Hodapp Environmental Services Manager Certified MN Wetland Delineator #1016 bhodapp@ae-mn.com

Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441

Phone: (763) 412-4000 Fax: (763) 412-4090

EXECUTIVE SUMMARY

Anderson Engineering of Minnesota, LLC was retained to provide professional wetland services using the 1987 United States Army Corps of Engineers Wetland Delineation Manual (Technical Report Y-87-1; January 1987) and all supplemental guidance documents to identify areas meeting wetland criteria at Hennepin County parcel 1911822420035 located at 18005 30th Avenue North in Plymouth, Minnesota. The parcel is in Section 19, Township 118 North, Range 22 West.

One delineated aquatic resources or, portions thereof, was identified and delineated within the project area and summarized in Table 1 and depicted in Appendix A, Figure 5.

Table 1. Summary of delineated aquatic resources, corresponding sizes, and wetland type classifications.

WETLAND	APPROXIMATE SIZE (ac)	WET	TLAND TYPE CLASSII	FICATION	
	within project area	CIRCULAR 39	COWARDIN	EGGERS & REED	MnRAM Classification
1	0.01	Type 2	PEM1B	Fresh Wet Meadow	Manage 2

May 20, 2021

BACKGROUND

As requested by Marlys Nederhoff, Anderson Engineering of Minnesota, LLC completed a wetland investigation at Hennepin County parcel 1911822420035 located at 18005 30th Avenue North in Plymouth, Minnesota. (Appendix A, Figure 1). The parcel is in Section 19, Township 118 North, Range 22 West.

The wetland delineation was completed in accordance with the 1987 United States Army Corps of Engineers Wetland Delineation Manual and the published regional supplement to the Army Corps Wetland Delineation Manual, Midwest Regional Supplement.

The purpose of this study was to identify areas meeting the technical criteria for wetlands, delineate the jurisdictional extent of the wetland basins, and classify the wetland habitats in the project area.

Fieldwork for this site investigation was completed by Alex Yellick and Dylan Kruzel, on May 18, 2021. The weather was cloudy and 68 degrees Fahrenheit.

METHODOLOGY

U.S. Geologic Service 7.5" Topographic Quadrangle maps, U.S. Fish and Wildlife Service National Wetland Inventory (NWI) maps, Minnesota Department of Natural Resources Public Water Inventory (PWI) maps, U.S. Department of Agriculture Natural Resources Conservation Service Soil Survey, and available aerial photographs were consulted to initially locate potential wetland habitats.

Routine on-site Determination Method was used during this investigation. In this method, the following procedures were used:

- 1. The vegetative community was sampled in all present strata to determine whether it met hydrophytic vegetation criteria based on the indicators identified in the Midwest Regional Supplement.
- 2. Soil pits were dug using a Dutch auger to depths of sixteen to thirty-six inches. The soil profile was noted in addition to any hydric soil characteristics.
- 3. Signs of wetland hydrology were noted and compared to field criteria such as depth to shallow water table and depth of soil saturation found in the soil pits.

Data from sample points were recorded on Army Corps of Engineers Midwest Region Wetland Determination Data Forms (Appendix B). At least one sample point transect crosses the delineated wetland edge. This transect consists of an upland sample point and a wetland sample point. Other sample points may be in areas which have one or more other wetland criteria present; where questionable conditions exist; or to verify the absence of wetland criteria. Photographs of each resource is included in the resource review summary pages.

Sample points were marked in the field with orange flags. The identified aquatic resource was marked with sequentially numbered pink flags. All sample points and the delineated aquatic resource extent were located using a Trimble Geo XH sub-meter GPS unit.

Delineated resources were evaluated using Board of Soil and Water Resource's Minnesota Routine Assessment Method version 3.2 (MnRAM). Information from desktop and field assessment was evaluated in the system and a management classification ranging from exceptional quality to low quality is output as Preserve, Manage 1, Manage 2, and Manage 3. Resulting classifications are typically utilized in development planning.

RESOURCE REVIEW

The below described data were reviewed as part of the aquatic resource field delineation. A summary of each resource contained within the project area follows.

NATIONAL WETLANDS INVENTORY

The National Wetlands Inventory identifies one temporary flooded forested wetland in the southwest portion of the parcel (Appendix A, Figure 2).

USDA – NATURAL RESOURCES CONSERVATION SERVICE SOIL SURVEY

Soil survey data for Hennepin County was obtained and reviewed prior to the delineation. Table 2 provides a list of the mapped soils in the project area. Figure 3 in Appendix A is a map of the soil units with percent hydric components.

Table 2. Summary of mapped soil units in the project area.

MAP UNIT SYMBOL	MAP UNIT NAME	HYDRIC STATUS	HYDRIC RATING	DRAINAGE CLASSIFICATION	PERCENT COVER
L37B	Angus loam, 2 to 6 percent slopes	5%	Non-Hydric Soil Unit	Well drained	59%
L23A	Cordova loam, 0 to 2 percent slopes	95%	Hydric Soil Unit	Poorly drained	41%

Hydric soils are defined in the Field Indicators of Hydric Soils in the United States: Guide for Identifying and Delineating Hydric Soils, version 8.2, 2018; The 1987 United States Army Corps of Engineers Wetlands Delineation Manual; and The Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0).

MINNESOTA DEPARTMENT OF NATURAL RESOURCES PUBLIC WATER INVENTORY

The Minnesota Department of Natural Resources Public Water Inventory for Hennepin County does not identify public water in the project extent (Appendix A, Figure 4).

30-DAY ROLLING PRECIPITATION DATA

A review of the 30-day rolling precipitation data collected from the University of Minnesota Climatology Working Group (Appendix C) indicates that precipitation totals for the weeks prior to the site visit were below the range of average in the general project area. However, the overall hydrologic conditions were suitable for completing an accurate wetland determination and boundary delineation.

May 20, 2021

RESOURCE 1 FIELD DELINEATED 5/18/2021

Viewing East / Gradual Transition to Wetland

Wetland	RESOURCE TYPE
0.014-Acre	TOTAL AREA WITHIN ECB
0.016-Acre	TOTAL EST. AREA
Fresh Wet Meadow	EGGERS & REED
Type 2	CIRCULAR 39
PEM1B	COWARDIN
Manage 2	MnRAM ²

FIELD INVESTIGATION CONCLUSION¹

DOMINANT HYDROPHYTIC VEGETATION				
Poa pratensis	Kentucky blue grass			
Phalaris arundinacea	Reed canary grass			
Carex lacustris	Lakebank sedge			
HYDRIC SOIL INDICATORS				
Depleted Below Dark Surface	A11			
Depleted Matrix	F3			
·				
WETLAND HYDROLOGY DETERMINATION				

Sparsely Vegetated ConcaveSurface
Geomorphic Position
FAC-Neutral Test

B8

D2

FAC-Neutral Test

SK	TO	P	RF'	VIE	W	

HYDRIC RATING - SOIL UNIT	Hydric – Cordova Ioam, 0-2% slopes (L23A)		
NATIONAL WETLAND INVENTORY	None		
PUBLIC WATER INVENTORY	None		

DISCUSSION

RATIONALE FOR DETERMINATION	The wetland is located in an isolated depression near the southeast portion of the parcel and extends off-site to the east. The upland sample point was supported with hydrophytic vegetation and hydric soils; however, the area lacked wetland hydrology and geomorphic position and therefore was determined upland.	
ATYPICAL/PROBLEMATIC CONDITIONS	Review of antecedent precipitation on this day was dryer than normal; however, field conditions were adequate for reasonable vegetation and hydrology determinations.	
CONSISTENCY WITH DESKTOP REVIEW	The field investigation identified a wetland in the southeast portion of the project parcel when dryland was expected with desktop review.	

¹ Appendix B contains wetland determination data forms supporting this investigated resource: Wet Point(s): 1A Up Point(s): 1B

² Appendix E contains MnRAM output

NWI MAPPED AREA FIELD DELINEATED 5/18/2021



Viewing Southwest / Field Investigation of NWI Mapped Area

FIELD INVESTIGATION CONCLUSION¹

RESOURCE TYPE None

DESKTOP REVIEW	
HYDRIC RATING - SOIL UNIT(S)	Non-Hydric – Angus Ioam, 2-6% slopes (L37B)
NATIONAL WETLAND INVENTORY	PFO1A
PUBLIC WATER INVENTORY	None
DISCUSSION	
RATIONALE FOR DETERMINATION	Field investigation identified the NWI mapped wetland located in the southwest portion of the parcel to be upland based on the absence of geomorphic position, hydrophytic vegetation, and soils being mapped non-hydric.
CONSISTENCY WITH DESKTOP REVIEW	Field investigation identified dryland located in the southwest portion of the parcel when a NWI mapped PFO1A wetland was expected with desktop review (Appendix A, Figure 2).

CONCLUSION

A total of one wetland, or portions thereof, was identified and delineated within the project area and in accordance with the 1987 United States Army Corps of Engineers Wetland Delineation Manual.

Project area aquatic resources may be regulated by several agencies at the local, state, and/or federal level. Activities which may potentially impact wetlands should be discussed in advance with the appropriate regulating agency regarding potential permit requirements. The Local Government Unit (LGU) responsible for implementing the Minnesota Wetland Conservation Act at this project location is the City of Plymouth.

The City may require vegetated buffers around all regulated wetland areas. Wetland buffers must meet the standards specified by the City for any project that is regulated under the Wetland Conservation Act.

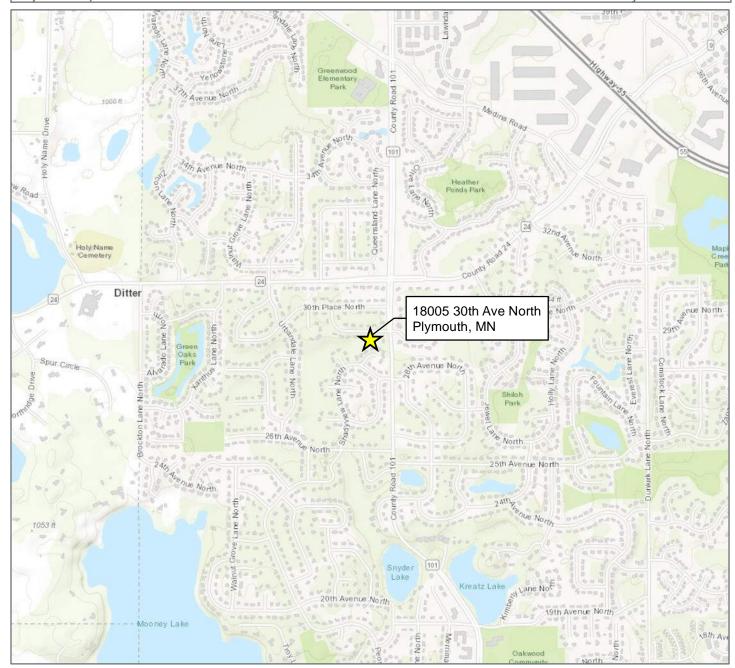
This wetland investigation meets the standar Engineers Wetland Delineation Manual and al results reflect the conditions present at the time.	l applicable subsequent guidance for a	
I certify that I performed the field analysis and $Q = Q$	d/or wrote the report for this wetland	determination.
dylar Krungt	May 20, 2021	
Dylan Kruzel	Date	-
Environmental Scientist		
I certify that I performed the field analysis and	d/or wrote the report for this wetland May 20, 2021	determination.
Alex Yellick	Date	
Senior Environmental Scientist MN Certified Wetland Delineator #1354		
I certify that I performed the field analysis an	d/or reviewed work completed by abo	ve staff.
Benin of Hodapp	May 20, 2021	
Benjamin J. Hodapp	Date	RENIAMIN L HODING
Environmental Services Manager		001832
MN Certified Wetland Delineator #1016		WAL WETLAND

May 20, 2021

Appendix A

FIGURES

Plymouth, Minnesota

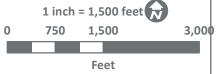




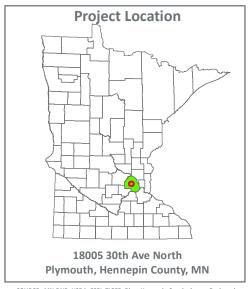


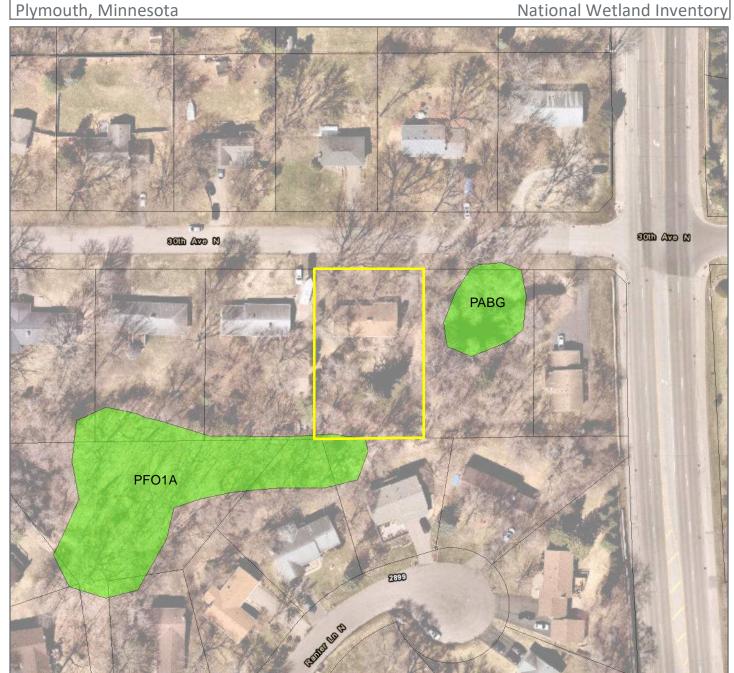
Project Location

PID: 1911822420035 Project No: 16497 Date: 5.17.2021



13605 1st Ave N #100, Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com

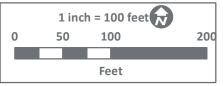


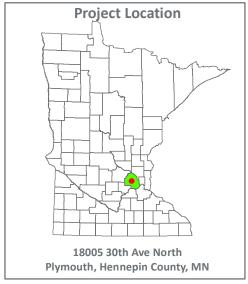




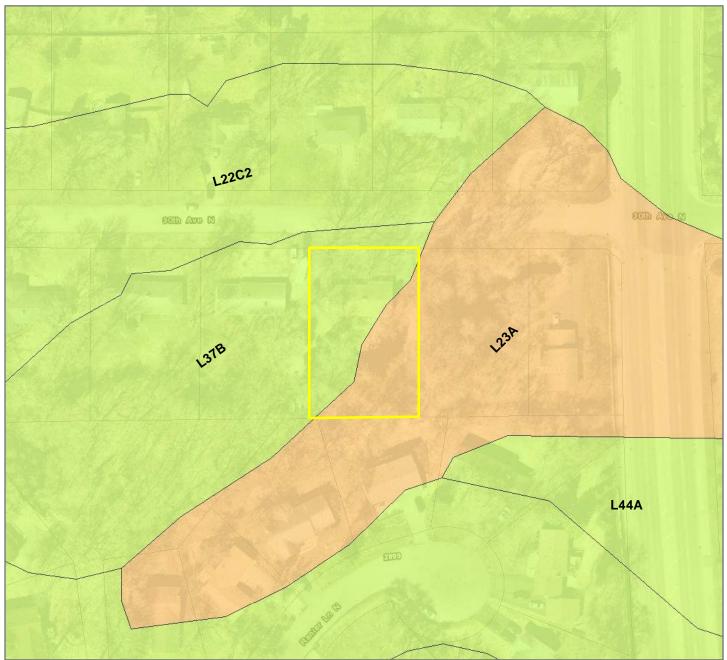
- Project Parcel
- Hennepin Co. Parcels
- National Wetland Inventory

PID: 1911822420035 Project No: 16497 Date: 5.17.2021





Plymouth, Minnesota



Legend

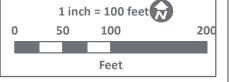
- Project Parcel
- Hennepin Co. Parcels

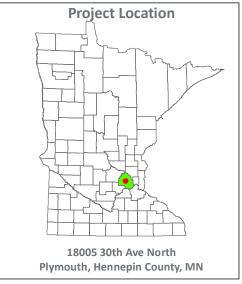
Hydric Rating by Map Unit

- 0% Hydric Components
- 1-32% Hydric Components
- 33-65% Hydric Components
- 66-99% Hydric Components
- 100% Hydric Components

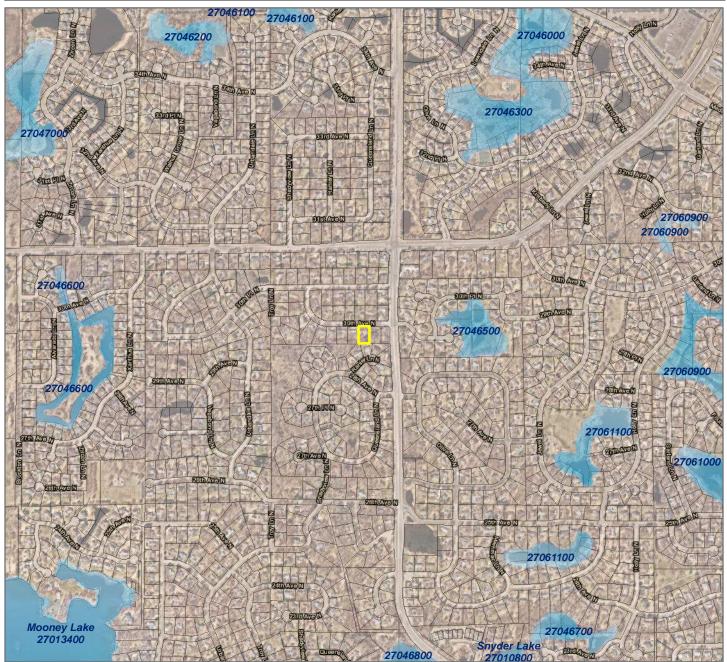
PID: 1911822420035 Project No: 16497

Date: 5.17.2021





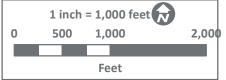
Plymouth, Minnesota

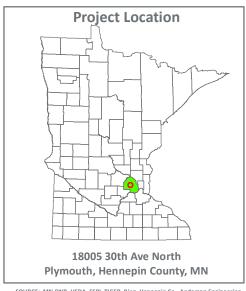


Legend

- Project Parcel
- Hennepin Co. Parcels
- MN DNR Inventoried **Public Waterbasin**

PID: 1911822420035 Project No: 16497 Date: 5.17.2021





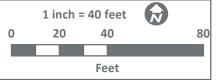
Plymouth, Minnesota



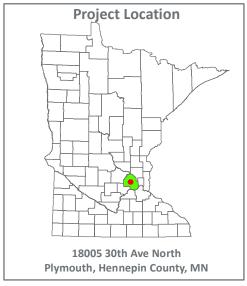
Legend

- Project Parcel
- Hennepin Co. Parcels
- Wetland Field Delineated May 18th, 2021
- Sample Point

PID: 1911822420035 Project No: 16497 Date: 5.19.2021



ANDERSON



Appendix B

ROUTINE ON-SITE DETERMINATION METHOD DATASHEETS

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site:	Nederhoff Property	/18005 30th Ave N		City/County:	Ply	mouth/Hennepin	Sampling Date:	05/18/2021
	Marlys Nederhoff		, , <u> </u>					
	Alex Yellick, Dylan Kruzel							
Landform (hillslope, terr	errace, etc): Depressions		Local relief (c	oncave, conve	ex, none):	concave		
Slope(%): 0	0 Lat: 45.01196298			Long:				m: WGS 84
Soil Map Unit Name: _			L23A			NWI classi	fication:	None
Are climatic / hydrologic	conditions on the sit	te typical for this time	of year?	Yes	No X	(If no, explain in Re	marks.)	
Are Vegetation	, Soil, or	Hydrologys	significantly	disturbed?	Are "N	Normal Circumstances"		X No
						eded, explain any answe	•	
SUMMARY OF FIN	NDINGS - Attach	site map show	ing sam	pling point	locations,	transects, import	ant features, etc.	
Hydrophytic Vegetation	on Present?	Yes X N						
Hydric Soil Present?		Yes X No	0		the Sampled			
Wetland Hydrology P	resent?	Yes X No	0	_ wi	thin a Wetland	d? Yes _	No	_
Anteced	lent precipitation is be	elow average for time		resh Wet Mea	dow located in	a isolated depression n	ear the southeast portion	on of the parcel.
VEGETATION - Us	e scientific nan	nes of plants.				<u> </u>		
						Dominance Test we		
			Absolute	Dominant	Indicator	Number of Dominan	•	
<u>Tree Stratum</u> (Plot	size: 30-ft)	% Cover	Species?	Status	That Are OBL, FAC	<i>N</i> , or FAC:	3 (A)
1.			<u> </u>			Total Number of Dor	minant	
				_		Species Across All S		3 (B)
3			<u> </u>		-	Species Across Air S	Juaia	<u>3</u> (B)
5.				_		Percent of Dominan	t Species	
J				= Total Cov	ver	That Are OBL, FAC	•	00.0 (A/B)
Sapling/Shrub Stratur	m (Plot size:	15-ft)						(/
1.	<u></u> (o. oo.					Prevalence Index v	vorksheet:	
2.			-: (- -	Total % Cover	of: Multi	ply by:
3				_		OBL species	25 x 1 =	25
4						FACW species		50
_						FAC species	50 x 3 =	150
			0	= Total Cov	ver	FACU species UPL species	0 x 4 = 0 x 5 =	0
Herb Stratum (Plot	size: 5-ft)				Column Totals:	0 x 5 = 100 (A)	225 (B)
1. Poa pratensis / Ke			50	Yes	FAC	Column Totals.	(A)	(D)
2. Phalaris arundinad		iss, Reed canary gras		Yes	FACW	Prevalence Inc	dex = B/A = 2	25
3. Carex lacustris / L	akebank sedge		25	Yes	OBL			
4				_		Hydrophytic Vegeta	ation Indicators:	
5. 6.					-		or Hydrophytic Vegetati	on
7.			<u> </u>	_		X 2 - Dominance		
8.			-: (-	X 3 - Prevalence		
			<u> </u>	_			cal Adaptations¹ (Provid	
10.						Problematic Hy	drophytic Vegetation¹ (E	=xpiain)
			100	= Total Cov	ver	1Indicators of hydric	soil and wetland hydrol	logy must
Woody Vine Stratum	(Plot size:	30-ft)		_			listurbed or problematic	0,
1						be present, unless u		•
2						Hydrophytic		
			0	_ = Total Cov	er er	Vegetation		
						Present?	Yes X No	
Remarks: (Include ph	oto numbero hore or	on a congrate cheet	`			1		
		as recently mowed, h		pecies identific	cation was pos	sible.		

US Army Corps of Engineers Midwest Region - Version 2.0

SOIL Sampling Point: 1A

	ription: (Describe to th	ne depth nee			or confirm	the abser	nce of indicato	ors.)
Depth	Matrix	0/		Features	T 1	12	Taratara	Damada
(inches)	Color (moist)		Color (moist)		Type ¹	Loc²	Texture	Remarks Distinct Reday Concentration
0-4	10YR 2/1	98	10YR 3/3	2	<u>C</u>	<u>M</u>	CL	Distinct Redox Concentration
4-12	10YR 4/2	80	10YR 4/6	20		M	C	Prominent Redox Concentration
¹Type: C=Cor	ncentration, D=Depletio	n, RM=Redu	ced Matrix, MS=Masl	ked Sand Gr	ains.		²Loo	cation: PL=Pore Lining, M=Matrix.
Black Hi Hydroge Stratified 2 cm Mu X Depleted Thick Da Sandy M		A11)	Sandy Red Stripped M Loamy Mu Loamy Gle X Depleted M Redox Dar Depleted D	atrix (S6) cky Mineral (yed Matrix (F	F1) =2) 6) (F7)			rs for Problematic Hydric Soils*: Coast Prairie Redox (A16) Dark Surface (S7) Iron-Manganese Masses (F12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) eators of hydrophytic vegetation and etland hydrology must be present, unless disturbed or problematic.
Restrictive L Type: Depth (in Remarks:	ches):		_				Hydric Soil	Present? Yes X No
HYDROLOG	SY							
Wetland Hvd	Irology Indicators:							
-	ators (minimum of one i	s required: c	heck all that annly)				Seco	ndary Indicators (minimum of two required)
	Water (A1)	3 required. G		ned Leaves ((RQ)			Surface Soil Cracks (B6)
	, ,				(69)			
	iter Table (A2)		Aquatic Fa		. 4\			Drainage Patterns (B10)
Saturation	• •			ic Plants (B1	•			Dry-Season Water Table (C2)
	arks (B1)			Sulfide Odor				Crayfish Burrows (C8)
	nt Deposits (B2)			hizospheres	•	g Roots (C	· —	Saturation Visible on Aerial Imagery (C9)
	oosits (B3)			of Reduced I				Stunted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iron	n Reduction i	in Tilled Soi	ls (C6)	<u>X</u>	Geomorphic Position (D2)
Iron Dep	osits (B5)		Thin Muck	Surface (C7))		<u>X</u> I	FAC-Neutral Test (D5)
Inundation	on Visible on Aerial Ima	gery (B7)	Gauge or V	Vell Data (D9	9)			
X Sparsely	Vegetated Concave S	urface (B8)	Other (Exp	lain in Rema	ırks)			
Field Observ	rations:							
Surface Water	er Present? Ye	es N	o X Depth (in	ches):				
Water Table F		es N		ches):				
Saturation Pr		es N				Wetla	nd Hydrology	Present? Yes X No
(includes cap				, <u> </u>				
Describe Rec	corded Data (stream gai	uge, monitori	ng well, aerial photos	, previous in	spections),	if available	e :	
Remarks:	Sparsely Vegetated Co	ncave Surfac	e (B8) was observed	in drowned	out portions	of the sar	nple area.	

US Army Corps of Engineers

Midwest Region - Version 2.0

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site	Nederhoff Proper	tv/18005 30th Ave I	N	City/Coun	ıtv.	Plym	outh/Hennenin	9	Sampling Da	ite. Of	5/18/2021
	Nederhoff Property/18005 30th Ave N Marlys Nederhoff		City/County: Ply								
Investigator(s):	Alex Yellick, Dylan Kruzel								-		
	andform (hillslope, terrace, etc): Depressions								none		
Slope(%): 2 Lat: 45.01196309							ļ		Datum:	WGS 84	
Soil Map Unit Name: _			L23A						n:	None	
Are climatic / hydrologic	c conditions on the	site typical for this ti	ime of year?	Yes		No X	_ (If no, explain	in Remarks.	.)		
Are Vegetation	, Soil, c	or Hydrology	significantly	y disturbed	?	Are "No	ormal Circumstan	nces" presen	t? Yes	X	No
Are Vegetation							led, explain any a		•		
SUMMARY OF FIN	NDINGS - Attac	ch site map sho	owing sam	pling po	oint lo	cations, t	ransects, im	portant fe	eatures, e	tc.	
Hydrophytic Vegetation	on Present?	Yes X									
Hydric Soil Present?		Yes X				Sampled A					
Wetland Hydrology P	resent?	Yes	No X	_	within	a Wetland?	? Y	Yes	No	X	
Remarks:				I.							
The tran	nsition to upland wa		d on a gradual	l change in	elevation	on and abse	ence of wetland hy	ydrology ind	icators. Ante	cedent pre	ecipitation
is below	v average for time o	f year.									
VEGETATION - Us	se scientific na	mes of plants									
VEGETATION	je selemme na	inics of plants.					Dominance Te	et workeho	ot:		
			Abaaluta	Domine	not In	dicator	Number of Don				
Tree Stratum (Plot	size: 30 ff	\	Absolute % Cover			dicator tatus	That Are OBL,	•		3	(A)
1. Fraxinus pennsylv)	⁷⁶ Cover	Yes		FACW	matric OBE,	171011, 01 17			('')
2. Acer rubrum / Red			<u></u> 15	Yes		FAC	Total Number o	of Dominant			
3. Ulmus americana			10	No		FACW	Species Across			5	(B)
Populus deltoides		od	10	No		FAC	•				` ′
5.			 -				Percent of Dom	ninant Speci	es		
			55	= Total	Cover		That Are OBL,	FACW, or FA	AC:	60.0	(A/B)
Sapling/Shrub Stratu	m (Plot size:	15-ft)		<u> </u>							
1. Sambucus raceme	osa / Red elderberr	у	35	Yes	3	FACU	Prevalence Inc			414!	
2. Rhamnus catharti	ca / European buck	thorn	25	Yes	3	FAC	Total % C			Multiply by:	
3							OBL species FACW species		x1= x2=		
4							FAC species	55 <u>30</u>	 -	-	
5							FACU species				
Lient Otenture (Diet	-:	,	60	= Total	Cover		UPL species	0			
Herb Stratum (Plot 1. Glechoma hedera)	90	Voc		FACU	Column Totals:	215	(A)	745	(B)
Glechorna nedera Alliaria petiolata /				Yes No		FAC					
Parthenocissus qu		a creener		No		FACU	Prevalen	ice Index = E	B/A =	3.47	
4.	aniquorona i viigiine	2 0100001				17.00					
5.						_	Hydrophytic V	_			
6.									rophytic Veg	etation	
7					,		X 2 - Domina	ence Index ≤			
8.									<u>-</u> 5.0 ptations¹ (Pr	ovide sunr	orting
9								-	tic Vegetatio		-
10								,,		(=	.,
			100	= Total	Cover		¹ Indicators of h	ydric soil an	d wetland hy	/drology m	ust
Woody Vine Stratum	(Plot size:	30-ft)					be present, unl	less disturbe	d or problen	natic.	
1											
2							Hydrophytic				
				= Total	Cover		Vegetation	V	V .	1-	
							Present?	res	<u> </u>	No	
Remarks: (Include ph	noto numbers here	or on a separate sh	eet.)								
			-								

US Army Corps of Engineers Midwest Region - Version 2.0

SOIL Sampling Point: 1B

	ription: (Describe to t	he depth nee			or confirm	the abser	nce of indicat	ors.)			
Depth	Matrix			x Features			- .				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc²	Texture	Remarks			
0-8	10YR 2/1	100	40\/D 4/0				CL	Description of Design Community in			
8-24	10YR 4/2	80	10YR 4/6	20	<u> </u>	<u>M</u>	C	Prominent Redox Concentration			
		·		_	 -			_			
				_							
¹Type: C=Co	ncentration, D=Depletion	n, RM=Redu	ced Matrix, MS=Mas	ked Sand Gr	ains.		²Lo	ocation: PL=Pore Lining, M=Matrix.			
Hydric Soil I	ndicators:						Indicato	ors for Problematic Hydric Soils³:			
Histosol	(A1)		Sandy Gle	yed Marix (S	4)			Coast Prairie Redox (A16)			
Histic Ep	pipedon (A2)		Sandy Red	dox (S5)				Dark Surface (S7)			
Black Hi	istic (A3)		Stripped M	latrix (S6)			Iron-Manganese Masses (F12)				
Hydroge	en Sulfide (A4)		Loamy Mu	cky Mineral ((F1)			Very Shallow Dark Surface (TF12)			
	d Layers (A5)		Loamy Gle	eyed Matrix (I	F2)			Other (Explain in Remarks)			
	uck (A10)		X Depleted N	•	•						
	d Below Dark Surface (A11)		k Surface (F	-						
	ark Surface (A12)			Dark Surface				cators of hydrophytic vegetation and			
	lucky Mineral (S1)		Redox Dep	oressions (F8	3)			etland hydrology must be present,			
5 cm Mu	ucky Peat or Peat (S3)							unless disturbed or problematic.			
Restrictive L	ayer (if observed):										
Type:											
Depth (in	iches):						Hydric Soil	Present? Yes X No			
TADBOI OC	·v										
YDROLOG Wetland Hyd	drology Indicators:										
-	ators (minimum of one	is required: c	heck all that apply)				Seco	ondary Indicators (minimum of two required)			
	Water (A1)	1		ned Leaves	(B9)			Surface Soil Cracks (B6)			
High Wa	ater Table (A2)		Aquatic Fa					Drainage Patterns (B10)			
Saturation				tic Plants (B	14)			Dry-Season Water Table (C2)			
·	larks (B1)			Sulfide Odor	-			Crayfish Burrows (C8)			
	nt Deposits (B2)			Rhizospheres		a Roots (C		Saturation Visible on Aerial Imagery (C9)			
	posits (B3)			of Reduced I	_	9 . 10010 (0		Stunted or Stressed Plants (D1)			
	at or Crust (B4)			n Reduction	. ,	ls (C6)		Geomorphic Position (D2)			
	posits (B5)			Surface (C7		13 (00)		FAC-Neutral Test (D5)			
	on Visible on Aerial Ima	ngory (P7)		-	•			FAC-Neutral Test (D3)			
			_	Well Data (D							
Sparsely	y Vegetated Concave S	uriace (B8)	Other (Exp	olain in Rema	irks)						
Field Observ											
Surface Water			o X Depth (in	· -							
Water Table I		es N	· ·								
Saturation Pr		es N	o X Depth (in	ches):		Wetla	nd Hydrology	Present? Yes NoX			
(includes cap	oillary fringe)										
Describe Red	corded Data (stream ga	uge, monitori	ng well, aerial photos	s, previous in	spections),	if available) :				
Remarks:											
. tomanto.											

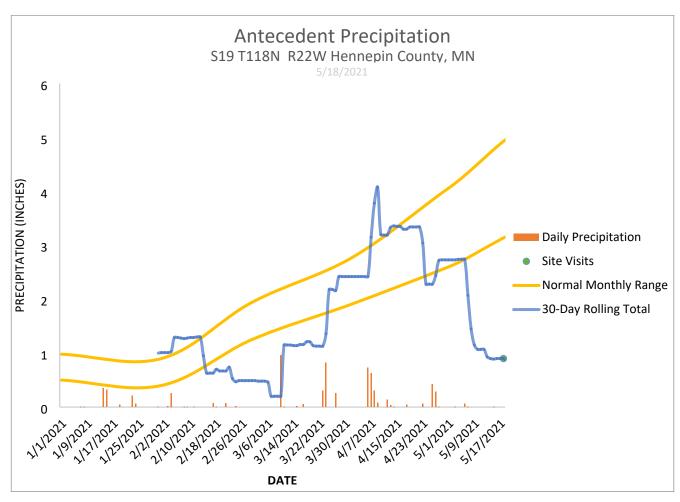
US Army Corps of Engineers

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Appendix C

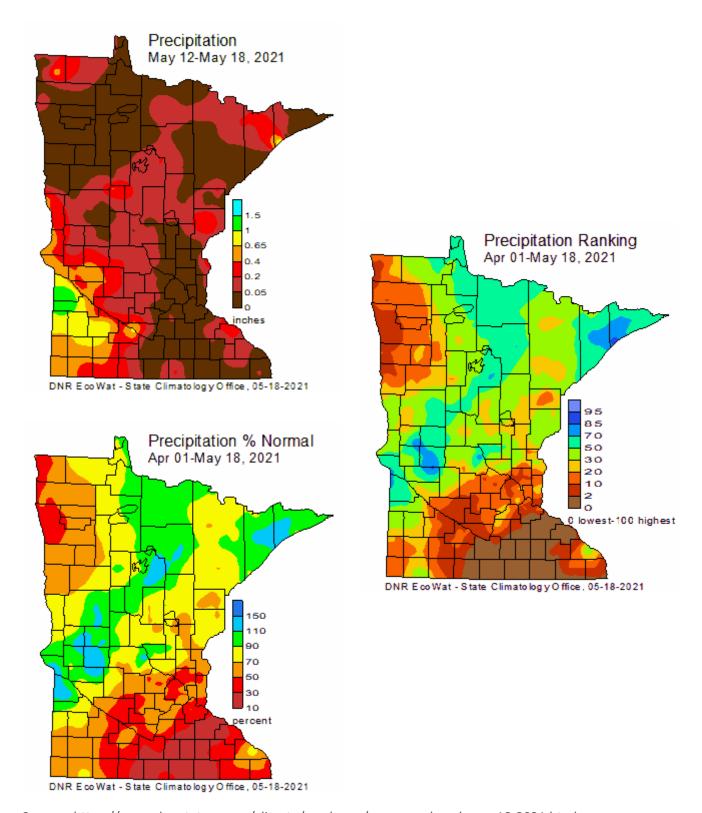
ANTECEDENT PRECIPITATION RECORD

Appendix C, Figure 1. Graph of recent precipitation in comparison with the normal range of precipitation in the general site location. Daily precipitation data is plotted independently and as a 30-day rolling total up to the date of the site visit. The normal range is plotted from precipitation data recorded from 1981 to 2010. The normal range is represented in this graph with two lines, the 30th percentile and the 70th percentile of the period-of-record data distribution.



Source: http://climate.umn.edu/

Appendix C, Figure 2. Minnesota State Climatology Office map depicting total precipitation for the week of the site visit.



Source: https://www.dnr.state.mn.us/climate/weekmap/maps-produced-may-18-2021.html

Appendix D

MINNESOTA ROUTINE ASSESSMENT METHODOLOGY (MnRAM)

Management Classification Report for 16497 Nederhoff 1

16497 Nederhoff Property

ID: 270

HENNEPIN County Mississippi (Metro) Watershed, #20 Corps Bank Service Area 7

Salf defined electification value

Based on the MnRAM data input from field and office review and using the classification settings as shown below, this wetland is classified as Manage 2

Functional rank of this w		Self-defined classification value				
based on MnRAM data	Functional Category S	ettings for this management le				
Not Applicable	Vegetative Diversity/Integrity	Moderate				
Moderate	Habitat Structure (wildlife)	Moderate				
Not Applicable	Amphibian Habitat	Low				
Not Applicable	Fish Habitat	Moderate				
Not Applicable	Shoreline Protection	Low				
Low	Aesthetic/Cultural/Rec/Ed and Habitat	Moderate / Low				
Moderate	Stormwater/Urban Sensitivity and Vegetative Diversi	ity -/-				
Moderate	Wetland Water Quality and Vegetative Diversity	-/-				
Moderate	Characteristic Hydrology and Vegetative Diversity	-/-				
High	Flood/Stormwater Attenuation*	-				
Not Applicable	Commericial use*	-				
Moderate	Downstream Water Quality*	-				

The critical function that caused this wetland to rank as **Manage 2** was **Maintenance of Characteristic Wildlife Habitat Structure**

Details of the formula for this action are shown below:

Maintenance of Characteristic Wildlife Habitat Str (Q3e*2+Q39+Q40+Q41+(Q23+Q24+Q25)/3+Q13+Q20)/8

Question	Value	Description
13	1	Outlet: hydrologic regime
20	0.5	Stormwater runoff
23	0.5	Buffer width
24	0.71	Adjacent area Management
25	0.61	Adjacent area diversity
39	0.5	Detritus
3e	0	<no description="" found=""></no>
40	0.1	Wetland interspersion/landscape

 $[\]ensuremath{^{*}}$ The classification value settings for these functions are not adjustable

Management Classification Report for 16497 Nederhoff 1

ID: 270

16497 Nederhoff Property

HENNEPIN County Mississippi (Metro) Watershed, #20 Corps Bank Service Area 7

41 0.1 Wildlife barriers

This report was printed on: Thursday, May 20, 2021

^{*} The classification value settings for these functions are not adjustable

Appendix E

CREDENTIALS

ANDERSON

Benjamin Hodapp, PWS

Environmental Specialist

CERTIFICATIONS

Professional Wetland Scientist #1832
MN Certified Wetland Delineator #1016

EDUCATION

MS Water Resources Management University of Wisconsin-Madison

BS Biology; Ecology Minnesota State University- Mankato

SPECIALIZED TRAINING

Wetland Delineation & Management Training Richard Chinn Environmental Training, Inc.

Wetland Plant Identification Biotic Consultants Inc.

Plant Identification for Wetland Delineation University of Wisconsin-La Crosse

Watershed Academy Web Certificate
United States Environmental Protection Agency

PROFESSIONAL ASSOCIATIONS

Society of Wetland Scientists
MN Wetland Professionals Association (WPA)
MN WPA President 2010
Wisconsin Wetlands Association
Association of State Wetland Managers
Minnesota Native Plant Society
Ecological Society of America

TOTAL EXPERIENCE

19 years

YEARS WITH CURRENT FIRM

2004 to Present

PUBLICATIONS & PRESENTATIONS

The Future of Rowan Creek Watershed: Connecting Land Use and Management with Water Quality. 2003. Water Resources Management Workshop 2002, Gaylord Nelson Institute for Environmental Studies, University of Wisconsin, Madison.

The Tumultuous World of Drainage Districts: An Analysis of Existing Management Arrangements, with Recommendations. Working Paper Series 2002-1. Water Resources Institutions and Policies, Department of Urban and Regional Planning, University of Wisconsin, Madison.

South Shore Lake Bemidji Remediation & Restoration, Society of American Military Engineers meeting June 22, 2016, St Paul, MN.

SUMMARY OF EXPERIENCE

Benjamin Hodapp, an Environmental Specialist and Senior Project Manager, brings a broad background of knowledge and experience in the environmental field to the Anderson Engineering team. Benjamin has a unique combination of multi-disciplinary academic training and work experience at various levels of federal, state and local government and private consulting.

Benjamin's project experience includes natural resource inventory and assessment; wetland delineation, mitigation design and monitoring; regulatory permitting; agency and stakeholder coordination; environmental impact assessment, environmental document preparation and public outreach.

REPRESENTATIVE PROJECTS

Southwest Light Rail Transit- Metropolitan Council – Minneapolis, MN: Project manager for wetland delineation and permitting efforts in support of multidisciplinary consultant team for preparation of Final Environmental Impact Statement for proposed 16 mile light rail alignment. Project tasks included completion of wetland delineations, preparation of all federal, state and local wetland permits and wetland mitigation plans, quality assurance and quality control of all deliverable products.

Harriet Island to South St. Paul Regional Trail – City of St Paul, City of South St. Paul and Dakota County – St Paul, MN: Project manager for wetland delineation, mapping and assessment efforts in support of multi-disciplinary consultant team responsible for preliminary engineering and final design. Project tasks included project management oversight and coordination, supervising field staff in completion of both off-site and on-site wetland determinations, boundary delineations, GPS mapping and functional assessments. Oversaw preparation of and responsible for quality assurance and quality control of all deliverable products.

Crosstown Blvd. Pedestrian Trail – City of Andover – Andover, MN: Project Manager for wetland delineation associated with proposed City trail improvements. Services included a wetland delineation, GPS mapping and functional assessment document findings and coordination and approval of findings with federal, state and local regulatory agencies.

Bennett Family Park Improvements – Minnetonka, MN: Project Manager for wetland delineation associated with proposed baseball complex improvements. Services included a wetland delineation, GPS mapping and functional assessment document findings and coordination and approval of findings with federal, state and local regulatory agencies.

Section 401/404 Wetland Permitting – Fort McCoy Commemorative Park Expansion – Fort McCoy, WI: Provided project management services for Section 401/404 permitting associated with proposed wetland impacts resulting from the Commemorative Park Expansion Project at the Fort McCoy U.S. Army installation. Project tasks included project management, developing a wetland mitigation strategy in compliance with Section 401/404 and state wetland permitting requirements and oversight and quality control in preparing Section 401/404 permit application.

ANDERSON

Alex H. Yellick

Senior Environmental Scientist

EDUCATION

MS Environmental & Conservation Sciences North Dakota State University

BS Biological Sciences North Dakota State University

CERTIFICATIONS

MN Wetland Delineator Certified #1354

MnDNR Tree Inspector #201005102

Erosion and Stormwater

Management Construction Site

Management

HAZWOPER 40-hour Training

TOTAL EXPERIENCE

7 years

YEARS WITH CURRENT FIRM

2018 to present

SUMMARY OF EXPERIENCE

Alex H. Yellick, a Senior Environmental Scientist, brings a broad range of knowledge and experience in the environmental field to the Anderson Engineering team. Prior to his employment with Anderson Engineering of MN, LLC, Alex worked as a certified wetland delineator and has background in biologic assessments and threatened and endangered species review, regulatory review/permitting and Phase I Environmental Site Assessments. The skills that Alex developed through his biological and conservation sciences advanced educational background and experience make him proficient in assessing and addressing a range of environmental issues, and clearly communicating solutions to clients and various regulatory agencies.

Alex's project experience includes biological assessments of urban and rural wetlands, environmental permitting, assistance with preparing Wetland Bank Plans, environmental compliance oversight, stormwater best management practices design and compliance, and Phase I Site Assessments. Alex has experience with Global Positioning Systems, Geographic Information Systems, and AutoCAD.

REPRESENTATIVE PROJECTS

National Environmental Policy Act Environmental Assessments – California, Illinois, Montana: Prepared National Environmental Policy Act-compliant Environmental Assessments for U.S Department of Veteran Affairs. Projects include cemetery expansion or hospital development at Sacramento Valley National Cemetery, Abraham Lincoln National Cemetery, and Fort Harrison Veteran Affairs Medical Center.

Minnesota Environmental Policy Act Categorical Exclusion Documentation and Wetland Delineation— Minnesota Department of Transportation Highway 63 and Interstate 90 Interchange Improvements. Through partnership with Short Elliott Hendrickson Inc. (SEH), and working with MnDOT District 6, a nonprogrammatic Long Form Categorical Exclusion document and supporting information was prepared and approval was obtained from the Federal Highway Administration. In addition, project area federal and state regulated water resources were inventoried and a wetland replacement plan was developed.

Wetland Delineation/Assessment – Various Locations: services included wetland delineation and assessment of permitting requirements in support of development and real-estate transactions. Project tasks included completion of wetland field delineations following the 1987 United States Army Corps of Engineers Wetland Manual and Regional Supplements, boundary delineations, GPS mapping, and preparation of reports to document findings and assess wetland impacts.

Permitting and Compliance Activities – Minnesota, Arkansas, Mississippi, Oklahoma, and Texas: Services included federal, state, and local environmental permitting and operational compliance assistance associated with energy infrastructure construction and maintenance activities.

Rare Species and Rare Plant Communities Review – Blufflands State Trail, Olmsted and Wabasha Counties: served as lead field biologist for the reconnaissance of rare species, rare plant communities, and protected animals along the proposed state trail alignment. Deliverables included an observations memo and rare features location data.

ANDERSON

Dylan J. Kruzel

Environmental Scientist

EDUCATION

Bachelor of Science: Wildlife Biology Minor: Wetlands Ecology and Biology

Bemidji State University – Bemidji

SPECIALIZED TRAINING

S-130 Basic Wildland Firefighter

S-190 Introduction to Fire Behavior

L-180 Human Factors in the Wildland Fire Service

Certified Open Water Diver

OSHA 10 Hour Training

PROFESSIONAL ASSOCIATIONS

MN Wetland Professionals Association (WPA)

The Wildlife Society (TWS)

TOTAL EXPERIENCE

2 years

YEARS WITH CURRENT FIRM

2020 to present

SUMMARY OF EXPERIENCE

Dylan Kruzel, an Environmental Scientist, brings a broad background of knowledge and experience in the environmental field to the Anderson Engineering team. Prior to his employment with Anderson Engineering of MN, LLC, Dylan worked for the Soil and Water Conservation District (SWCD) of Becker County as a Conservation Technician. He conducted field evaluations for conservation plans, monitored conservation easements, and provided available natural resource program information to landowners with conservation concerns. He has also assisted in the design and installation of various native habitat, shoreline restoration, rain garden, and storm water mitigation projects. The skills that Dylan has developed through his educational background and experience make him proficient in assessing and addressing a range of ecological indications and environmental issues.

Dylan's project and educational experience includes conservation management practices, habitat management evaluations, species identification, regulatory permitting, environmental document preparation, wetland delineation and classifications. Dylan has experience with Collector for ArcGIS, Geographic Information Systems, Global Positioning Systems, and Realtime Landscape Architect.

REPRESENTATIVE PROJECTS

Wetland Delineation/Reporting – Various Locations: Services included wetland delineation and reporting in support of linear construction projects and real-estate transactions for federal, state, and local agencies, as well as private companies. Project tasks included completion of wetland field delineations following the 1987 Corps of Engineers Wetland Delineation Manual and Regional Supplement: Midwest Region, and Northcentral and Northeast Region, GPS mapping, and preparation of reports to document findings and assess wetland impacts.

Permitting Specialist – MN: Services include preparation of permit applications in accordance with the Minnesota Wetland Conservation Act to support the planning, design, and mitigation for residential, commercial, and state land development projects.

NEPA Documentation – MN: Services include preparation of Categorical Exclusion Determination documents in accordance with the Minnesota Department of Transportation Highway Project Development Process and the Department of Veteran Affairs (VA) NEPA Interim Guidance for Projects. Tasks include evaluation, coordination, and responding to assist project managers in environmental documentation for Minnesota highways and VA health care facilities.

Project Book – US Department of Veteran Affairs (VA) – Dallas VA Medical Center, TX: Project Coordinator to guide a multidisciplinary team in development of a project book for expansion of and upgrades to the Dallas VA Medical Center. The project consists of organizing and collection of pre-design information that will serve as the foundation of all future design work by defining project requirements and refining cost elements. Efforts involve close coordination with members of the design team

Land Alterations and Field Monitoring – Becker County SWCD – MN: Services include performing the following general activities in compliance with federal, state, and local regulations: assisting in site evaluations and installing for various cost share projects like conservation easements, management practices, and shoreland alterations.

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: Marlys Nederhoff

Mailing Address: 3 Quarry Road, Mason City, Iowa 50401

Phone: (641) 424-2375

E-mail Address: Nederhoff2003@yahoo.com

Agent Name: Anderson Engineering of Minnesota, LLC, Ben Hodapp

Mailing Address: 13605 1st Avenue North, Suite 100, Plymouth, MN 55441

Phone: (763) 412-4000

E-mail Address: bhodapp@ae-mn.com

PART TWO: Site Location Information

County: Hennepin City/Township: Plymouth

Parcel ID and/or Address: 18005 30th Avenue North/PID: 1911822420035

Legal Description (Section, Township, Range): Section 19, Township 118 North, Range 22 West

Lat/Long (decimal degrees): 45.01196298, -93.50847204

Attach a map showing the location of the site in relation to local streets, roads, highways. See figure 1, Appendix A

Approximate size of site (acres) or if a linear project, length (feet): 0.46-Acre Lot

PART FIVE: Applicant Signature

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: Marly Mederhays Date: May 27, 2021

I hereby authorize Anderson Engineering of Minnesota, LLC 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.

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

(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 <i>Guidelines for Submitting Wetland Delineations in Minnesota</i> (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 4, 2021

Regulatory File No. MVP-2021-01045-SSC

Marlys Nederhoff 3 Quarry Road Mason City, Iowa 50401

Dear Mr./Ms. Nederhoff:

We are responding to your request, submitted by Anderson Engineering of Minnesota, LLC on your behalf, for Corps of Engineers (Corps) concurrence with the delineation of aquatic resources completed on the Nederhoff Property site. The project site is in Section 19, Township 118 North, Range 22 West, Hennepin County, Minnesota.

We have conducted a preliminary review of the Nederhoff Property delineation report, dated May 20, 2021 and generally concur that Figure 5 (Delineation) 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 Corps permitting purposes. However, this "reasonable approximation" concurrence may not fulfill state or local delineation requirements. 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 St. Paul office at (651) 290-5268 or Samantha.S.Coungeris@usace.army.mil. In any correspondence or inquiries, please refer to the Regulatory file number shown above.

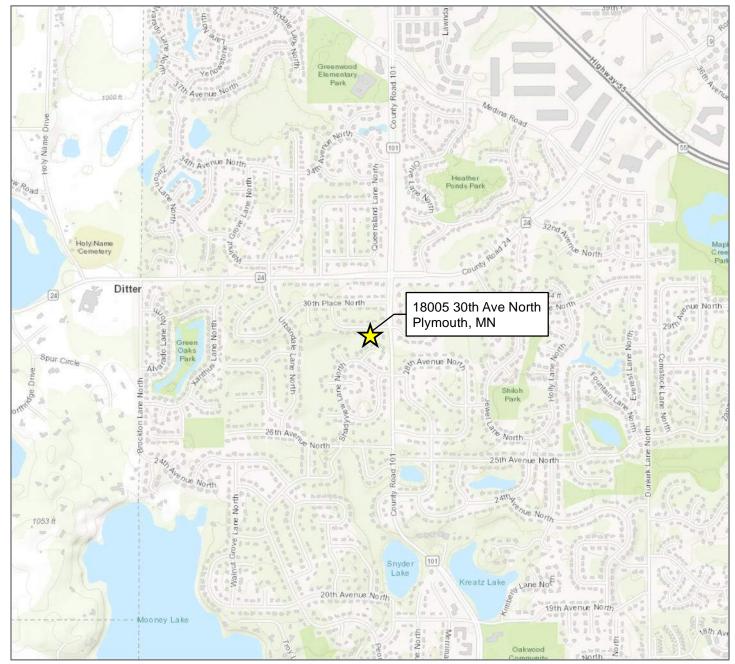
Sincerely,

Samantha Coungeris Project Manager

Aamantha Coungerie

cc:

Ben Hodapp, Anderson Engineering of Minnesota Ben Carlson, BWSR Ben Scharenbroich, City of Plymouth

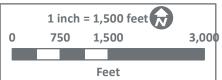


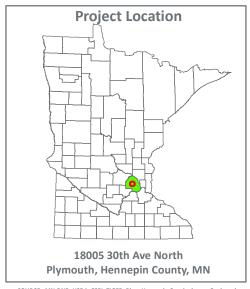
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Project Location

PID: 1911822420035 Project No: 16497 Date: 5.17.2021



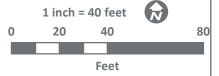




Legend

- Project Parcel
- Hennepin Co. Parcels
- Wetland Field Delineated May 18th, 2021
- Sample Point

PID: 1911822420035 Project No: 16497 Date: 5.19.2021



ANDERSON

