

LEVEL 2 WETLAND DELINEATION

October 28, 2019

1775 Fox Street
Orono, MN

ISG Project No. 19-23535



REPORT FOR:

Rick Hendel
Owner
Hendel Homes
15250 Wayzata Boulevard
Wayzata, MN 55391
952.404.7204
rick@hendelhomes.com

PREPARED BY:

Travis Fristed
Environmental Services Manager
ISG
7900 International Drive, Suite 550
Minneapolis, MN 55425
952.426.0699
travis.fristed@isginc.com

ISG

TABLE OF CONTENTS

Executive Summary	1
Project Description.....	1
Definitions + Methodology.....	2
Findings	5
Recommendations	7
Data Sources + Literature Cited	8

TABLES

Table 1. Delineated Wetland Summary.....	1
Table 2. Vegetation Indicator Status Delineated Wetland Summary	3

APPENDICES + FIGURES

Appendix A: Figure 1. Project Location	A
Figure 2. DNR Public Waters Inventory and National Wetlands Inventory	
Figure 3. Hennepin County Soil Survey	
Figure 4. LiDAR Elevations & Hillshade	
Figure 5. Aerial Photograph	
Appendix B: Figure 6. Wetland Delineation Map.....	B
Wetland Delineation Data Forms	
Appendix C: Antecedent Precipitation Data	C
Photo Log	
Appendix D: Joint Application Form for Activities Affecting Water Resources in Minnesota	D
MCWD Water Resource Permit Application	



Certification

1775 FOX STREET – ORONO, MN

LEVEL 2 WETLAND DELINEATION

ISG PROJECT NO. 19-23535

I hereby certify the above-described routine on-site Level 2 wetland delineation was performed on October 8, 2019. The wetland delineation meets standards and criteria specified in the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region.

Jeremy Groskreutz, MN WDIT (#5314)
Environmental Scientist

I hereby certify the quality assurance review of this wetland delineation report was completed by me or under my direct supervision, and that I am a Certified Wetland Delineator in the State of Minnesota.

Travis Fristed, PWS (#2360), MN WDC (#1169)
Senior Environmental Scientist/Environmental Services Group Manager

Executive Summary

ISG completed a wetland investigation within a 5.49 acre project area in Orono, MN on October 8, 2019 (as shown on the attached Figures).

This wetland investigation was performed in accordance with the 1987 US Army Corps of Engineers Wetland Delineation Manual and the 2010 Midwest Regional Supplement, and all applicable supporting documents for areas meeting wetland criteria for a routine wetland delineation in accordance to the MN Wetland Conservation Act and the US Army Corps of Engineers Section 404 Program.

Vegetation, soil and hydrology sampling have been completed on all potential wetland areas within the project area. Wetland determinations were based on the three required technical criteria: occurrence of hydric soil, predominance of hydrophytic vegetation, and the presence of one primary and/or two secondary indicators of wetland hydrology. Potential wetland areas (mapped hydric soils, NWI signatures, and low depressional areas) were investigated on-site and delineated as upland. Farmed wetlands that lacked a natural plant community were determined based on the presence of one primary and/or two secondary indicators of wetland hydrology (in accordance with the 87' Corps Manual Section F- Atypical Situations and Regional Supplement Chapter 5- Problematic Hydrophytic Vegetation). Potential wetland areas (mapped hydric soils, NWI signatures, and low depressional areas) were investigated on-site and delineated as upland.

Table 1. Delineated Wetland Summary

Wetland No.	Dominant Wetland Type(s)		Dominant Plant Community	Delineated Wetland Area	Soil Classification (Hydric Rating)	Mapped NWI	DNR Protected Waters Inventory
	Circ. 39	Cowardin Classification	Eggers & Reed				
A	Type 3	PEM1C	Shallow Marsh	3.35 Acres (145,954 Sq. Ft)	L16A (Hydric)/L36A (Partially Hydric)	PEM1C	27085900

Project Description

PROJECT PURPOSE

ISG was retained to identify and delineate all wetland areas that exist within the project boundaries. The wetland investigation boundary (or project area) encompasses approximately 5.49 acres near the intersection of Fox St. and CSAH 146 in Orono, Minnesota.

The purpose of the wetland investigation is to accurately identify wetland areas onsite so that they can be incorporated into plans for any future development of the property.

This report is intended to facilitate any regulatory discussions of Wetland Conservation Act and Clean Water Act Section 10/404 permitting for this project.

PROJECT LOCATION

The project area is located east of the intersection of Fox St. and CSAH 146 in Section 3, T117N, R23W, in the city of Orono, Minnesota (See Figure 1, Appendix A for a location map). The site is located within the Mississippi River – Twin Cities major watershed (20), and the Long Creek minor watershed (20092). The topography of the site slopes east towards an unnamed DNR public waters wetland. Site elevation ranges from approximately 930' to 952' above msl. At the time of this delineation, the investigation area was composed of grassland, forested upland, and wetland.

SURROUNDING PROPERTIES

The project site is located in the outskirts of Orono next to large spaced out lots. Some lots are heavily wooded and others partially wooded. Due to its location moderately spaced single family residences surround the project area.

Definitions + Methodology

This investigation was performed in accordance with the US Army Corps of Engineers 1987 Wetland Delineation Manual and the 2010 Midwest Regional Supplement, and all applicable supporting documents for areas meeting wetland criteria for a routine wetland delineation in accordance to the Minnesota Wetland Conservation Act and the US Army Corps of Engineers Section 404 Program. The following definitions, diagnostic environmental characteristics, and the methodology used is based on the mandatory technical criteria for the identification and delineation of wetlands.

WETLANDS DEFINITION

As defined in 33 CFR Part 328, Section 3, the term wetlands is defined as: Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. The frequency and duration of saturation may vary by geographical region, and is largely dependent upon climatic conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

Wetlands have the following general diagnostic environmental characteristics:

Hydrophytic Vegetation

The wetland vegetation criterion is satisfied when the prevalent vegetation consists of plant species adapted to inundation or substrates periodically deficient in oxygen as a result of prolonged saturation. Specifically, this includes plant communities that under normal circumstances have more than 50% of the composition of the dominant species from all strata ranked with an indicator status as obligate wetland (OBL), facultative wetland (FACW), and/or facultative (FAC) species.

The indicator status for individual plants as defined by the updated 2016 Minnesota National Wetland Plant List are identified and described in the following table:

Table 2. Vegetation Indicator Categories

Indicator Category	Occurrence in Wetlands
Obligate (OBL)	Almost always
Facultative Wetland (FACW)	Usually
Facultative (FAC)	Equally likely to occur in uplands
Facultative Upland (FACU)	Rarely
Upland (UPL)	Almost never

Hydric Soil

A hydric soil is a soil formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part. Examples of hydric soil indicators include: the accumulation of organic matter, low-chroma soil matrices, gleying, redox concentrations, redox depletions, and hydrogen sulfide odor.

Wetland Hydrology

According to the 1987 manual, wetland hydrology is present when the area is inundated either permanently or periodically at mean water depths less than or equal to 6.6 feet, or the soil is saturated to the surface at some time during the growing season. The Midwest Regional Supplement requires fourteen (14) or more consecutive days of flooding or ponding, or a water table of twelve (12) inches (30 cm) or less below the soil surface, during the growing season at a minimum frequency of five (5) years in ten (10) (50% or higher probability) to satisfy wetland hydrology.

The wetland hydrology criterion can be satisfied with observation of one (1) primary hydrology indicator or two (2) secondary hydrology indicators. Potential primary indicators of wetland hydrology may include, but are not limited to: inundation, saturation, water marks, drift lines, sediment deposits, and a thin muck surface. Potential secondary indicators of wetland hydrology may include, but are not limited to: surface soil cracks, drainage patterns, saturation visible on aerial imagery, and the FAC-neutral test.

OFF-SITE METHODOLOGY

Map Review

Prior to fieldwork, several mapping sources were consulted to identify potential wetland habitats. The sources consulted include the United States Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI), United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), formerly Soil Conservation Service (SCS) Soil Survey, Minnesota Department of Natural Resources (DNR) Public Waters Inventory (PWI), and United States Geological Survey (USGS) Topographic maps. Areas indicating evidence of potential wetland conditions were evaluated in greater detail through fieldwork.

Precipitation Data Analysis

Precipitation data from the Minnesota Climatology Working Group and Natural Resources Conservation Service WETS Tables were used in conjunction with the NRCS Method for Evaluating Antecedent Moisture Conditions to determine precipitation conditions under which the investigation was conducted.

ON-SITE METHODOLOGY

Field Sampling Procedures

Sample transects were established in representative transition zones between wetland and upland for each observed plant community. For potential wetland areas greater than five acres in size, a minimum of three transects were established along the baseline wetland boundary for lengths of up to one mile, three to five transects for one to two miles, five to eight transects for two to four miles, and eight or more transects for wetland baseline boundaries that exceed four miles in length. Transect intervals do not exceed 0.5 mile apart from each other.

Transects are comprised of two sample points, one sample in upland and one sample point in wetland. A field data sheet was completed describing the dominant soil characteristics (to a minimum of 24 inches below the soil surface), plant communities, and hydrology indicators at the sample point. The presence of water was observed after time (depending on soil characteristics) was allowed for movement of water through the soil substrate. Absolute percent areal cover was recorded for the species that were observed (which may exceed 100% total area due to overlap) and dominance was determined by using the 50/20 rule. Vegetation was sampled within each stratum present at a sample point using the following circular plot sizes:

- Trees – 30 ft radius
- Saplings and Shrubs – 15 ft radius

- Herbaceous – 5 ft radius
- Woody Vines – 30 ft radius

The sample points were marked with 4-foot lathe, photographed, and flagged with surveyor's tape (if not within an agricultural land use). Other samples were taken at unmarked locations to provide verification of the wetland edge, as needed.

Wetland Boundary Delineation

The wetland boundaries were determined using changes in topography, dominance of hydrophytic/non-hydrophytic vegetation, hydric soil indicators, and/or hydrology characteristics. Wetland edges were marked with pink "wetland delineation" flags. The wetland edge is considered to be the highest extent of the wetland basin. Areas below the flagged edge satisfy the three required wetland criteria while areas above were lacking in one or more of these criteria.

US Army Corps of Engineers Regulatory Guidance Letter 90-6 requires documentation sufficient to allow a reasonably accurate replication of the delineation at a future date. Reasonably accurate is defined as within 0-2 meters accuracy. Precise positions of sample points and the wetland edge have been located by a sub-meter GPS unit and have been included in the wetland delineation drawing or map for this property.

Wetland Type Classification

Wetlands were classified using *Wetland Plants and Plant Communities of Minnesota and Wisconsin* (Eggers & Reed 2007), *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin, et al, 1979) and *Wetlands of the United States* (Fish and Wildlife Service Circular 39, Shaw and Fredine 1971).

Findings

MAP REVIEW

The NWI map lists one NWI signature which encompasses a majority of the project area. This NWI signature is listed as a Palustrine Emergent Persistent Seasonally Flooded (PEM1C) wetland. The basin is shown in Figure 2, Appendix A.

There is one DNR Public Waters basin located within the investigation area. This basin is an unnamed Public Waters Wetland (27085900). The basin is shown in Figure 2, Appendix A.

Soils within the investigation boundary have been mapped by the NRCS along with their hydric classification. The location of each soil unit occurring within the investigation boundary is shown on the Hennepin County Soil Survey map (Figure 3, Appendix A).

The LiDAR map (Figure 4, Appendix B) illustrates the highest elevations near the western half of the site. Elevations vary within the project boundary, ranging from 952 feet above msl to 930 feet above msl where the public waters wetland.

ANTECEDENT PRECIPITATION DATA ANALYSIS

The precipitation received in the project area during the previous three months was above the normal range (30-70th percentile) for this area. Prior to the sample date of October 8, 2019, there was above normal precipitation in September, August, and July. Therefore the field work was completed under above normal conditions according to the precipitation worksheet for wetland delineations (Appendix C).

FIELD DELINEATION RESULTS

Based on the data reviewed and fieldwork conducted, one (1) area was examined for wetland characteristics within the project area. One (1) wetland was ultimately delineated and is further described within this report. The delineated wetland is identified as Wetland A, which includes sample points 1 & 2. One transect was taken along Wetland A's boundary.

Field data forms for each sample point are located in Appendix B. Refer to Figure 6 (Appendix B) for a map of the project boundary, wetland basin, sampling transect, and area. Photos of the wetland basin within the project boundary are included in Appendix C.

OTHER AQUATIC RESOURCES

The only prominent aquatic resource within the project boundaries is the aforementioned DNR Public Waters and NWI wetland (delineated as Wetland A) that is mapped in the eastern portion of the project area (Figure 2, Appendix A). Wetland A appears to extend off-site to the north, east, and south. Wetland A outlets into Tanger Lake .12 miles southeast of the project area.

WETLAND SUMMARY

Wetland A

Wetland A is a Type 3 Shallow Marsh wetland dominated primarily by cattail. Wetland A is located within the eastern half of the project area at the bottom of a steep hillslope. Wetland A was flagged and GPS'd primarily based off of topography, which was placed at the toe of the hillslope along the forested upland and several feet above the hillslope based off a change in dominant vegetation along the cleared upland area.

Recommendations

Activities impacting or potentially impacting the wetlands identified are regulated through several levels of government in Minnesota:

- **Federal:** US Army Corps of Engineers: Permit Programs under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act
- **Federal:** USDA NRCS: Wetland Conservation Provisions of the 1996 Farm Bill
- **State of Minnesota:** Minnesota Department of Natural Resources: Public Waters Work Permit Program
- **Local:** Local Units of Government (LGU) administer the Minnesota Wetland Conservation Act (WCA) of 1991.

Please note that grading, excavating, or filling is not allowed until all necessary permits have been obtained. If wetland impacts are proposed, ISG can assist in the proper steps to acquire the appropriate permit or exemption. By initiating the permit process as soon as possible, potential costly delays to the project may be avoided.

Data Sources + Literature Cited

Cowardin, L.M., V. Carter, F.C. Golet, and R.T. LA Roe. 1979. Classification of wetlands and deep water habitats of the United States. U.S. Fish and Wildlife Service, FWS/OBS-79/31.

Eggers, S.D., and Reed, D.M. 1997. Wetland Plants and Plant Communities of Minnesota and Wisconsin. U.S. Army Corps of Engineers, St. Paul District. 1997.

Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Wetlands Research Program Technical Report Y-87-1, US Army Engineers Waterways Experiment Station.

Environmental Laboratory. August 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region. ERDC/EL TR-10-16. U.S. Army Corps of Engineers.

Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. *The National Wetland Plant List: 2016 Wetland Ratings*. Phytoneuron 2016-30: 1-17

Minnesota Climatology Working Group. State Climatology Office – DNR Waters, Extension Climatology Office – MES and Academic Climatology – U of Minnesota. <http://climate.umn.edu/wetland/>

Minnesota Department of Natural Resources Protected Waters Inventory Map, Hennepin County.

Shaw, S.P., and C.G. Fredine. 1956. Wetlands of the United States. U.S. Fish and Wildlife Service, Circular 39. 67pp.

State of Minnesota Interagency Cooperative Agreement for Implementation of the Federal Wetland Delineation Memorandum of Agreement. Minnesota Wetland Mapping Conventions for 1985 Food Security Act (FSA) as Amended and Section 404 Clean Water Act (CWA), August 1994.

United States Army Corps of Engineers- St. Paul District and Minnesota Board of Water & Soil Resources. March 4, 2015. Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers and Wetland Conservation Act Local Governmental Units in Minnesota.

United States Department of Agriculture. Natural Resources Conservation Service. Climate Analysis for Wetlands. <http://www.wcc.nrcs.usda.gov/ftpref/support/climate/wetlands/>

United States Department of Agriculture. Natural Resources Conservation Service. Web Soil Survey. <http://websoilsurvey.nrcs.usda.gov/app/>

United States Fish and Wildlife Service National Wetland Inventory Map. May 2015 Update (April 30, 2015 metadata), Minnesota Department of Natural Resources

United States Geological Survey. 7.5 minute, 1:24,000 scale Topographic Quadrangle Map.

APPENDIX A:
Figure 1. Project Location
Figure 2. DNR Public Waters Inventory and National
Wetland Inventory
Figure 3. Hennepin County Soil Survey
Figure 4. LiDAR Elevations and Hillshade
Figure 5. Aerial Photograph

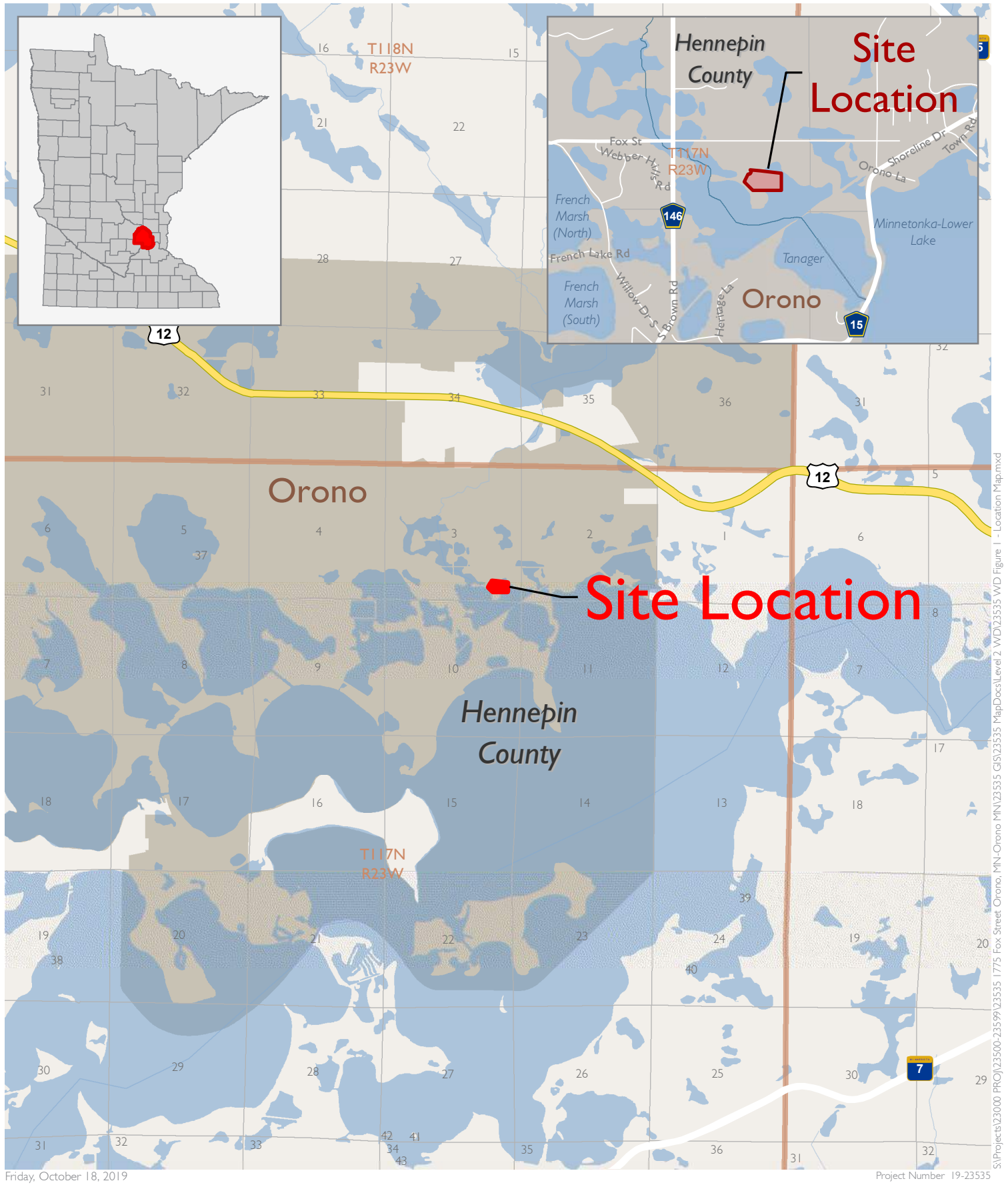


Figure 1
Project Location Map
1775 Fox Street
 Orono, Hennepin County, Minnesota

0 0.5 1
 Miles
 1 in = 1 miles



Source(s):
 Municipalities (MN DOT, 6/24/2016)
 Lakes (MN DNR, July, 2008)
 Counties (MN DNR, July 2013)
 PLSS (MnGeo/USGS)





Figure 2
 DNR Public Waters Inventory
 and National Wetlands Inventory
 1775 Fox Street
 Orono, Hennepin County, Minnesota

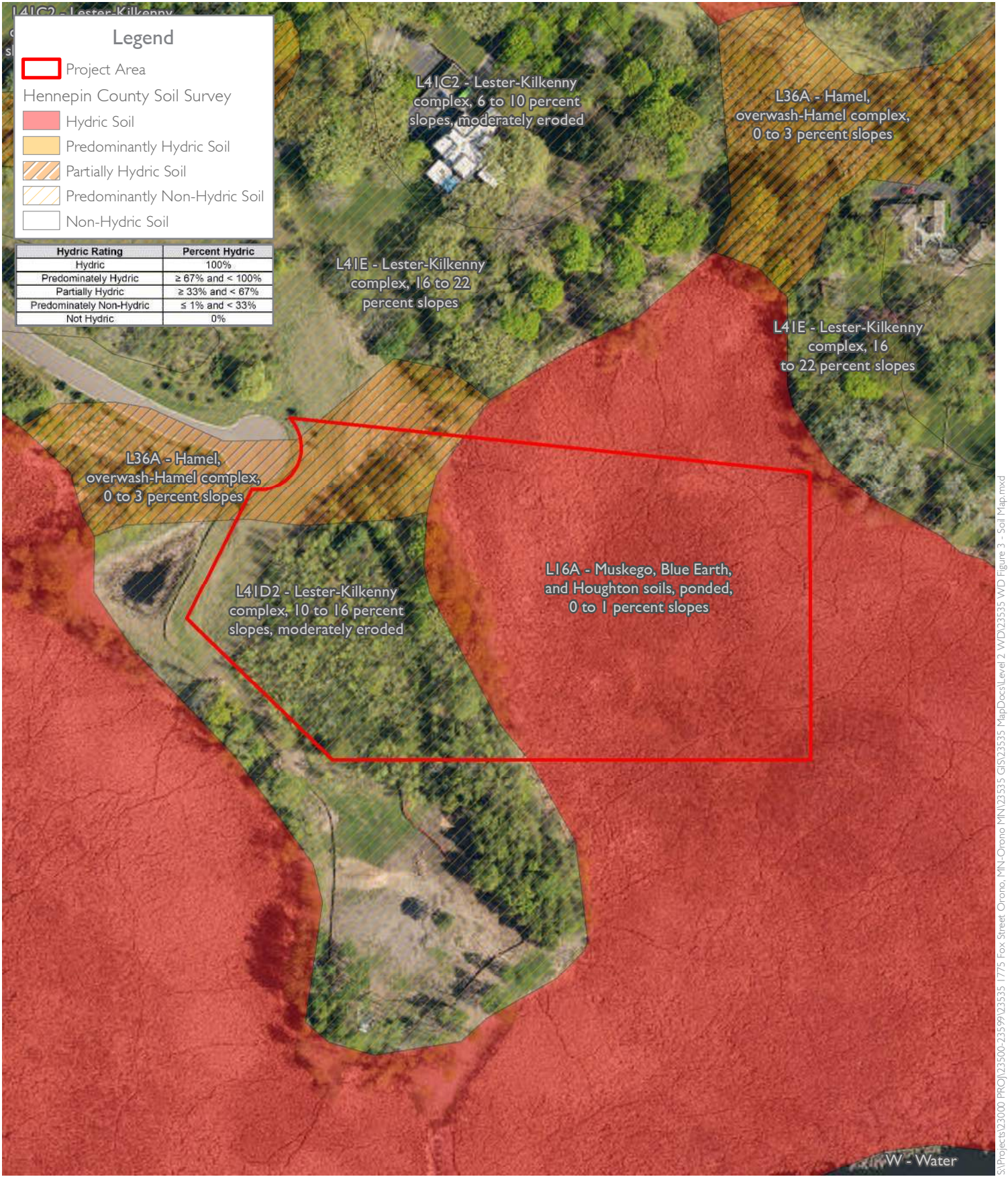


Figure 3
 Hennepin County Soil Survey
 1775 Fox Street
 Orono, Hennepin County, Minnesota

0 75 150
 Feet
 1 in = 150 ft



Source(s):
 Orthophoto (Hennepin County, 2018)
 Soil Survey (USDA NRCS, 2003)



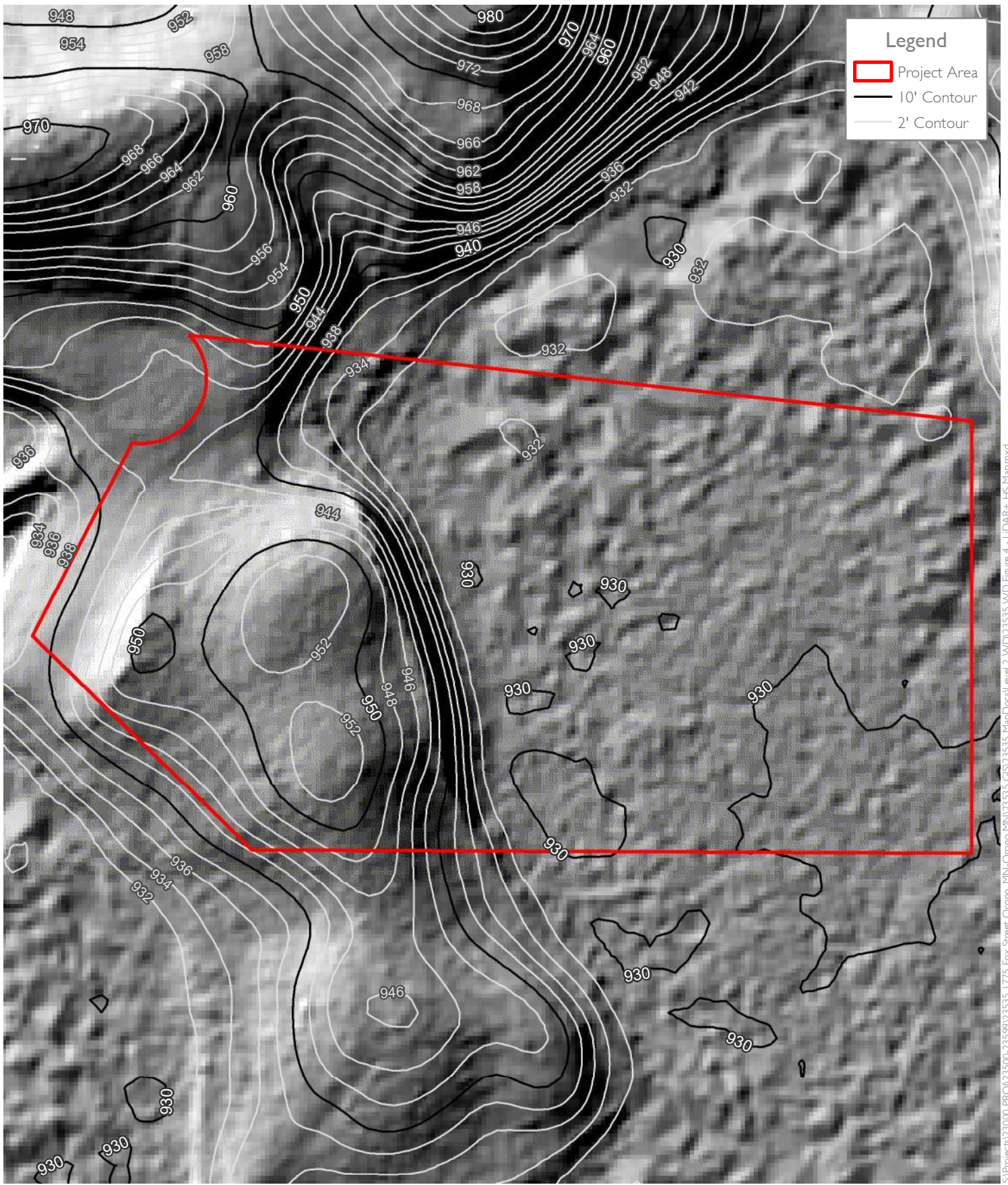


Figure 4
 LiDAR Elevations and Hillshade
 1775 Fox Street
 Orono, Hennepin County, Minnesota

Source(s):
 Contours/Hillshade (MnLiDAR, 2012)





Friday, October 18, 2019

Project Number 19-23535

S:\Projects\23000 PROJ\23500-23599\23535 1775 Fox Street Orono, MN\Orono MN\23535 GIS\23535 MapDocs\Level 2 WID\23535 WID Figure 5 - Aerial Photo Map.mxd

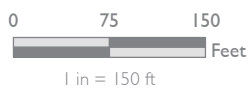


Figure 5
Aerial Photo Map
1775 Fox Street
 Orono, Hennepin County, Minnesota

Source(s):
 Orthophoto (Hennepin County, 2018)
 Parcels (Hennepin County, 2019)



APPENDIX B:

Figure 6. Wetland Delineation Map Wetland Determination Data Forms

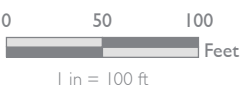
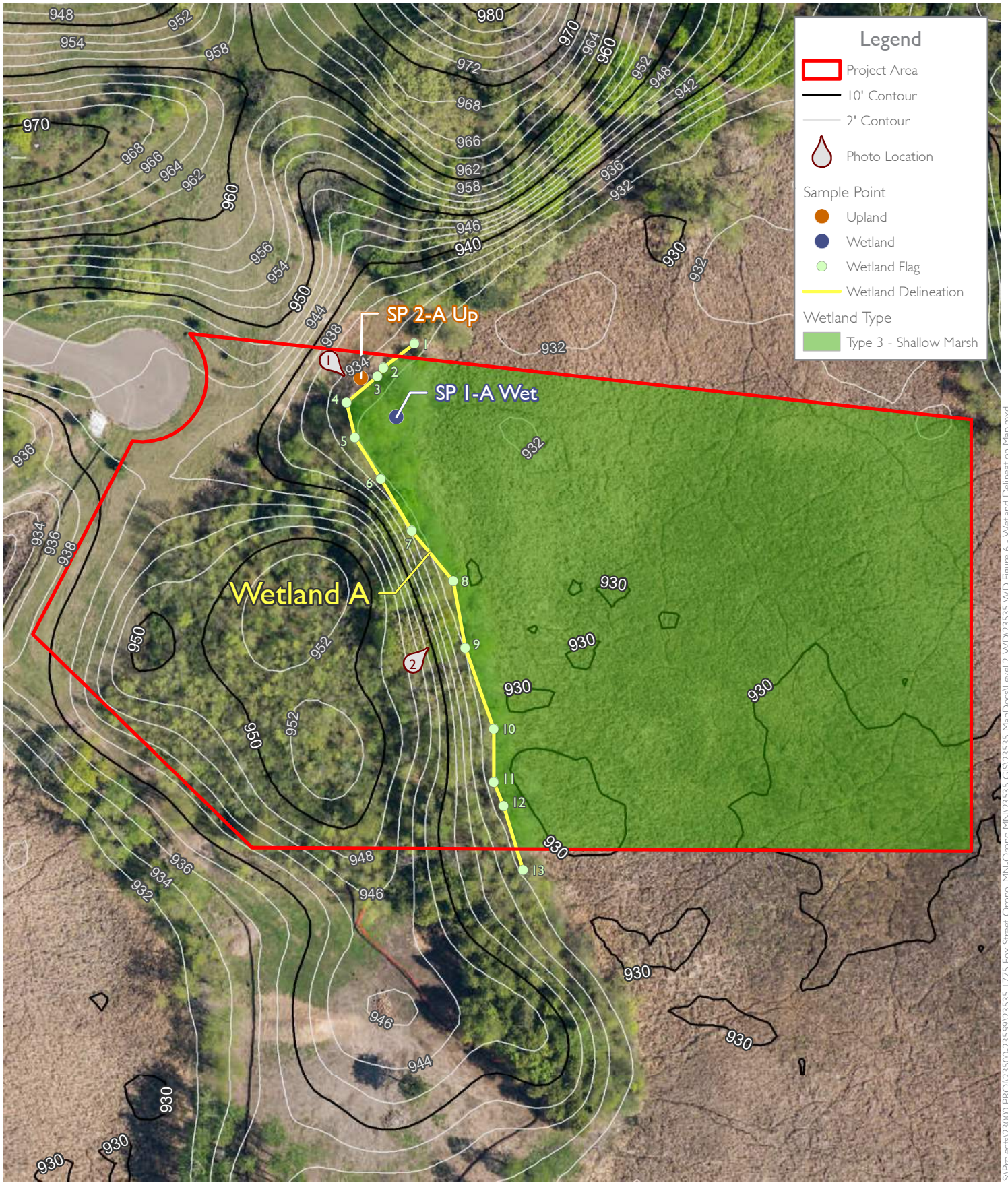


Figure 6
Wetland Delineation Map
1775 Fox Street
 Orono, Hennepin County, Minnesota

Source(s):
 Orthophoto (Hennepin County, 2018)
 Wetland Delineation (ISG, 2019)
 Contours (MnLiDAR, 2012)



S:\Projects\23000-PROJ\23500-23599\23535-1775 Fox Street Orono, MN\Orono MN\23535-MapDocs\Level 2-WD\23535 WD Figure 6 - Wetland Delineation Map.mxd

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: 1775 Fox Street City/County: Hennepin State: MN Sampling Date: 10/08/19
 Applicant/Owner: Hendel Homes State: MN Sampling Point: SP 1-A Wet
 Investigator(s): Jeremy Groskreutz Section, Township, Range: S3, T117N, R23W
 Landform (hillside, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave
 Slope (%): 1 Lat: 44.965676 Long: -93.567241 Datum: NAD 1983
 Soil Map Unit Name: L36A - Hamel, overwash-Hamel complex, 0 to 3 percent slopes NWI classification: None

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

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Above normal precip received.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Rhamnus cathartica</u>	<u>30</u>	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
<u>30</u> =Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15' Radius</u>)				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>25</u></td> <td>x 1 = <u>25</u></td> </tr> <tr> <td>FACW species <u>75</u></td> <td>x 2 = <u>150</u></td> </tr> <tr> <td>FAC species <u>35</u></td> <td>x 3 = <u>105</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>140</u> (A)</td> <td><u>300</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.14</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>25</u>	x 1 = <u>25</u>	FACW species <u>75</u>	x 2 = <u>150</u>	FAC species <u>35</u>	x 3 = <u>105</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>140</u> (A)	<u>300</u> (B)	Prevalence Index = B/A = <u>2.14</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>25</u>	x 1 = <u>25</u>																			
FACW species <u>75</u>	x 2 = <u>150</u>																			
FAC species <u>35</u>	x 3 = <u>105</u>																			
FACU species <u>5</u>	x 4 = <u>20</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>140</u> (A)	<u>300</u> (B)																			
Prevalence Index = B/A = <u>2.14</u>																				
1. <u>Rhamnus cathartica</u>	<u>5</u>	Yes	FAC																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
<u>5</u> =Total Cover																				
Herb Stratum (Plot size: <u>5' Radius</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Phalaris arundinacea</u>	<u>70</u>	Yes	FACW																	
2. <u>Carex atherodes</u>	<u>20</u>	No	OBL																	
3. <u>Solidago canadensis</u>	<u>5</u>	No	FACU																	
4. <u>Typha latifolia</u>	<u>5</u>	No	OBL																	
5. <u>Urtica dioica</u>	<u>5</u>	No	FACW																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
<u>105</u> =Total Cover																				
Woody Vine Stratum (Plot size: <u>30' Radius</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
_____ =Total Cover																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: SP 1-A Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-18	10YR 2/1	100					Mucky Loam/Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): 1
 Saturation Present? Yes No Depth (inches): 0
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

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

Remarks:

Hydrology sampled to 18". Surface water present <1" deep.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: 1775 Fox Street City/County: Hennepin Sampling Date: 10/08/19
 Applicant/Owner: Hendel Homes State: MN Sampling Point: SP 2-A Up
 Investigator(s): Jeremy Groskreutz Section, Township, Range: S3, T117N, R23W
 Landform (hillside, terrace, etc.): Backslope Local relief (concave, convex, none): Concave
 Slope (%): 3 Lat: 44.965748 Long: -93.567343 Datum: NAD 1983
 Soil Map Unit Name: L36A - Hamel, overwash-Hamel complex, 0 to 3 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Above normal precip received.	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																	
1.	_____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)																																
2.	_____	_____	_____	_____																																	
3.	_____	_____	_____	_____																																	
4.	_____	_____	_____	_____																																	
5.	_____	_____	_____	_____																																	
=Total Cover																																					
Sapling/Shrub Stratum	(Plot size: <u>15' Radius</u>)				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total % Cover of:</td> <td style="text-align: right;">Multiply by:</td> <td></td> <td></td> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 =</td> <td><u>10</u></td> <td></td> </tr> <tr> <td>FACW species <u>45</u></td> <td>x 2 =</td> <td><u>90</u></td> <td></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FACU species <u>65</u></td> <td>x 4 =</td> <td><u>260</u></td> <td></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>Column Totals: <u>120</u> (A)</td> <td></td> <td><u>360</u> (B)</td> <td></td> </tr> <tr> <td colspan="2">Prevalence Index = B/A =</td> <td><u>3.00</u></td> <td></td> </tr> </table>	Total % Cover of:	Multiply by:			OBL species <u>10</u>	x 1 =	<u>10</u>		FACW species <u>45</u>	x 2 =	<u>90</u>		FAC species <u>0</u>	x 3 =	<u>0</u>		FACU species <u>65</u>	x 4 =	<u>260</u>		UPL species <u>0</u>	x 5 =	<u>0</u>		Column Totals: <u>120</u> (A)		<u>360</u> (B)		Prevalence Index = B/A =		<u>3.00</u>	
Total % Cover of:	Multiply by:																																				
OBL species <u>10</u>	x 1 =	<u>10</u>																																			
FACW species <u>45</u>	x 2 =	<u>90</u>																																			
FAC species <u>0</u>	x 3 =	<u>0</u>																																			
FACU species <u>65</u>	x 4 =	<u>260</u>																																			
UPL species <u>0</u>	x 5 =	<u>0</u>																																			
Column Totals: <u>120</u> (A)		<u>360</u> (B)																																			
Prevalence Index = B/A =		<u>3.00</u>																																			
1.	_____	_____	_____	_____																																	
2.	_____	_____	_____	_____																																	
3.	_____	_____	_____	_____																																	
4.	_____	_____	_____	_____																																	
5.	_____	_____	_____	_____																																	
=Total Cover																																					
Herb Stratum	(Plot size: <u>5' Radius</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
1.	<u>Solidago canadensis</u>	<u>60</u>	<u>Yes</u>	<u>FACU</u>																																	
2.	<u>Phalaris arundinacea</u>	<u>40</u>	<u>Yes</u>	<u>FACW</u>																																	
3.	<u>Carex atherodes</u>	<u>10</u>	<u>No</u>	<u>OBL</u>																																	
4.	<u>Asclepias syriaca</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																																	
5.	<u>Verbena hastata</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																																	
6.	_____	_____	_____	_____																																	
7.	_____	_____	_____	_____																																	
8.	_____	_____	_____	_____																																	
9.	_____	_____	_____	_____																																	
10.	_____	_____	_____	_____																																	
120 =Total Cover																																					
Woody Vine Stratum	(Plot size: <u>30' Radius</u>)				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																																
1.	_____	_____	_____	_____																																	
2.	_____	_____	_____	_____																																	
=Total Cover																																					
Remarks: (Include photo numbers here or on a separate sheet.)																																					

SOIL

Sampling Point: SP 2-A Up

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-23	10YR 2/1	100					Loamy/Clayey	
23-26	10YR 3/1	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____
 Water Table Present? Yes X No _____ Depth (inches): 18
 Saturation Present? Yes X No _____ Depth (inches): 17
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

Hydrology sampled to 26".

APPENDIX C: Antecedent Precipitation Data Photo Log

1775 Fox Street

Wetland Delineation

Antecedent Precipitation Data Worksheet



Date: 10/8/2019
 Location: Orono, Hennepin County

		LONG TERM PRECIP CONDITIONS							
	MONTH	3 YRS IN 10 LESS THAN	AVERAGE	3 YRS IN 10 MORE THAN	PRECIP	CONDITION DRY, WET, NORMAL	CONDITION VALUE	MONTH WEIGHT VALUE	PRODUCT OF PREVIOUS TWO COLUMNS
1st Month Prior	September	1.97	3.11	3.90	5.13	Wet	3	3	9
2nd Month Prior	August	2.75	3.72	4.46	7.19	Wet	3	2	6
3rd Month Prior	July	2.54	3.87	4.60	6.88	Wet	3	1	3

Precipitation Data Source: <http://climateapps.dnr.state.mn.us>

SUM = 18

Condition Value: Dry = 1
 Normal = 2
 Wet = 3

Note - If sum is: 6 - 9 = Dry
 10 - 14 = Normal
 15 - 18 = Wet



Photo 1 - View of Wetland A facing southeast.



Photo 2 - View of Wetland A facing northeast.

APPENDIX D:

Joint Application Form for Activities Affecting Water Resources in Minnesota MCWD Water Resource Permit Application

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: Rick Hendel, Hendel Homes
Mailing Address: 15250 Wayzata Boulevard, Wayzata, MN 55391
Phone: 952.404.7204
E-mail Address: rick@hendelhomes.com

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

Mailing Address: 230 Tonka Ave, Orono, MN, 55356
Phone: 952-221-2005
E-mail Address: Casey@eandcssnacks.com

Agent Name: Travis Fristed, ISG
Mailing Address: 7900 International Drive, Suite 550, Minneapolis, MN 55425
Phone: 952.426.0699
E-mail Address: travis.fristed@isginc.com

PART TWO: Site Location Information

County: Hennepin **City/Township:** Orono
Parcel ID and/or Address: 1775 Fox Street, Orono, MN 55391, PID: 0311723440007
Legal Description (Section, Township, Range): S3, T117N, R23W
Lat/Long (decimal degrees): 44.965688, -93.567759
Attach a map showing the location of the site in relation to local streets, roads, highways. See attached Figure 1
Approximate size of site (acres) or if a linear project, length (feet): 5.49 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.

A wetland delineation was performed by ISG on October 8, 2019 to determine the location of any possible wetlands within the project area for future planning of development of the site.

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.)	Type of Impact (fill, excavate, drain, or remove vegetation)	Duration of Impact Permanent (P) or Temporary (T) ¹	Size of Impact ²	Overall Size of Aquatic Resource ³	Existing Plant Community Type(s) in Impact Area ⁴	County, Major Watershed #, and Bank Service Area # of Impact Area ⁵

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

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

³This is generally only applicable if you are applying for a de minimis exemption under MN Rules 8420.0420 Subp. 8, otherwise enter "N/A".

⁴Use *Wetland Plants and Plant Community Types of Minnesota and Wisconsin* 3rd Ed. as modified in MN Rules 8420.0405 Subp. 2.

⁵Refer to Major Watershed and Bank Service Area maps in MN Rules 8420.0522 Subp. 7.

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

No impacts have occurred.

PART FIVE: Applicant Signature

Check here if you are requesting a pre-application 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: Casey Webber Digitally signed by Casey Webber Date: 2019.10.28 11:45:09 -05'00' Sydney Anderson Digitally signed by Sydney Anderson Date: 2019.10.28 11:47:11 -05'00' Date:

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

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

Attachment A

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

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

Wetland Type Confirmation

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

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

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

In order for the Corps and LGU to process your request, the wetland delineation must be prepared in accordance with the 1987 Corps of Engineers Wetland Delineation Manual, any approved Regional Supplements to the 1987 Manual, and the *Guidelines for Submitting Wetland Delineations in Minnesota* (2013).

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

ER ESOU CE PERMIT APPLICA ION FORM

Use this form to notify/apply to the Minnehaha Creek Watershed District (MCWD) of a proposed project or work which may fall within their jurisdiction. Fill out this form completely and submit with your site plan, maps, etc. to the MCWD at:
15320 Minnetonka Blvd. Minnetonka, MN 55345.

Keep a copy for your records.

YOU MUST OBTAIN ALL REQUIRED AUTHORIZATIONS BEFORE BEGINNING WORK.

1. Name of each property owner: CC Webber, SM Anderson

Mailing Address: 230 Tonka Ave City: Orono State: MN Zip: 55356

Email Address: casey@eandcssnacks.com Phone: 952-221-2005 Fax: 952-300-9605

2. Property Owner Representative Information (not required) (licensed contractor, architect, engineer, etc...)

Business Name: Hendel Homes Representative Name: Rick Hendel

Business Address: 15250 Wayzata Blvd. City: Wayzata State: MN Zip: 55391

Email Address: rick@hendelhomes.com Phone: 952-404-7204 Fax: _____

3. Project Address: 1775 Fox Street City: Orono

State: MN Zip: 55391 Qtr Section(s): _____ Section(s): 3 Township(s): 117 Range(s): 23W

Lot: _____ Block: _____ Subdivision: _____ PID: 0311723440007

4. Size of project parcel (square feet or acres): 5.49 Acres

Area of disturbance (square feet): 0 Volume of excavation/fill (cubic yards): 0

Area of existing impervious surface: 0 Area of proposed impervious surface: 0

Length of shoreline affected (feet): 0 Waterbody (& bay if applicable): Minnetonka- Long Lake Creek

5. Type of permit being applied for (Check all that apply):

- | | |
|-------------------------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> EROSION CONTROL | <input type="checkbox"/> WATERBODY CROSSINGS/STRUCTURES |
| <input type="checkbox"/> FLOODPLAIN ALTERATION | <input type="checkbox"/> STORMWATER MANAGEMENT |
| <input checked="" type="checkbox"/> WETLAND PROTECTION | <input type="checkbox"/> APPROPRIATIONS |
| <input type="checkbox"/> DREDGING | <input type="checkbox"/> ILLICIT DISCHARGE |
| <input type="checkbox"/> SHORELINE/STREAMBANK STABILIZATION | |

6. Project purpose (Check all that apply):

- | | |
|-------------------------------------------------------------|----------------------------------------------------------------------------------|
| <input type="checkbox"/> SINGLE FAMILY HOME | <input type="checkbox"/> MULTI FAMILY RESIDENTIAL (apartments) |
| <input type="checkbox"/> ROAD CONSTRUCTION | <input type="checkbox"/> COMMERCIAL or INSTITUTIONAL |
| <input type="checkbox"/> UTILITIES | <input type="checkbox"/> SUBDIVISIONS (include number of lots) |
| <input type="checkbox"/> DREDGING | <input type="checkbox"/> LANDSCAPING (pools, berms, etc.) |
| <input type="checkbox"/> SHORELINE/STREAMBANK STABILIZATION | <input checked="" type="checkbox"/> OTHER (DESCRIBE): <u>Wetland Delineation</u> |

7. NPDES/SDS General Stormwater Permit Number (if applicable): NA

8. Waterbody receiving runoff from site: Minnetonka- Long Lake Creek

9. Project Timeline: Start Date: T.B.D. Completion Date: T.B.D.

Permits have been applied for: City County MN Pollution Control Agency DNR COE

Permits have been received: City County MN Pollution Control Agency DNR COE

By signing below, I hereby request a permit to authorize the activities described herein. I certify that I am familiar with MCWD Rules and that the proposed activity will be conducted in compliance with these Rules. I am familiar with the information contained in this application and, to the best of my knowledge and belief, all information is true, complete and accurate. I understand that proceeding with work before all required authorizations are obtained may be subject to federal, state and/or local administrative, civil and/or criminal penalties.

Sydney
Anderson

Digitally signed by Sydney
Anderson
Date: 2019.10.28 11:51:23 -05'00'

Casey Webber

Digitally signed by Casey
Webber
Date: 2019.10.28 11:51:42 -05'00'

Signature of Each Property Owner

Date