

Wetland Delineation Report

June 29, 2026

OSCAR MUNSON SUB LOT 50

Unassigned Street Number Lake Street

Homer, Alaska

POA-XXXX-XXXX

1.0 Introduction

On Wednesday, June 24, and Friday, June, 26, 2026 Bishop Engineering visited Oscar Munson Sub Lot 50, KPB Parcel ID 17717805, Unassigned Number Lake Street, Homer, Alaska to do an initial assessment of the property for wetland conditions. The objective was to identify wetland boundaries, if any. Weather on Wednesday was partly cloudy following several days of light showers, totaling at 0.14 inch of rain. Weather on Friday was sunny, following 2 days of partly cloudy. We walked the site boundaries and within the body of the 0.43-acre parcel and found that the property is wholly a wetland. The surrounding lots are developed with gravel pad fills and are elevated relative to the existing grade on this parcel. The parcel is only slightly sloped down to the northwest and appears to drain slowly in that direction to the easterly roadside ditch along Lake Street. This ditch drains into Beluga Slough and ultimately, Kachemak Bay. The lot was cleared of vegetation in March while the ground was frozen. There has been a short, 28-foot-long by 24-foot-wide gravel driveway entrance and culvert installed in the right-of-way and extends approximately 5 feet into the subject parcel. There has been surface soil disturbance but appears to be limited to the top 6 inches with the vegetation removal. Vegetation has begun recovering and Blue Joint Reed Grass and Field Horsetail are prevalent in the disturbed ground.

2.0 Methods

Office research was conducted following field work. We found the Kenai Watershed Forum (KWF) the lot is mostly categorized as a kettle wetland contiguous with a discharge slope. See Appendix A for a printout of the KWF mapping. In the field, we assessed the current conditions, took photos, and excavated two test pits for a full data point with soil layering, groundwater depth, and vegetation.

See Appendix A for data sheet, photos and test pit data.

3.0 Results

Vegetation is disturbed and it appears many trees were removed. There is a regrowth of herbaceous plants including Blue Joint Reed Grass (*Cacanadensis*) and Field Horsetail (*Equisetum arvense*). The ground is spongy underfoot and audible water displacement sounds are heard over the whole parcel to the boundaries. Conditions appeared slightly drier along the southern lot boundary where Sitka Spruce (*Picea sitchensis*) and Sitka Alders (*Alnus viridis*) were undisturbed, however, we still determined this zone to be part of the overall wetland. The ground underfoot was spongy, dense with bryophytes, and

saturation was found just below the surface, without requiring a full test pit. The surface soil on site is completely organic, peat.

There are no visible local depressions with the entire lot appearing substantially flat to slightly sloping to the northwest. The adjacent parcels are raised relative to the ground on the subject parcel with fill pads.

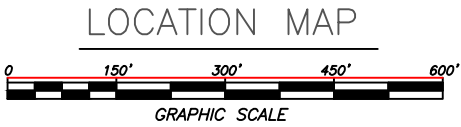
These findings indicate that the KWF assessed wetland boundaries were quite accurate to slightly underreporting the limits of the wetland in the southern portion of the parcel where we find the wetland boundary extending to the boundary and into a City of Homer right-of-way "alley". We can confirm the drainage on this project site connects to Beluga Slough and ultimately, Kachemak Bay through a series of roadside ditches and culverts.

4.0 Conclusion

We found the project site to contain one continuous wetland polygon spanning all 0.43 acre. Hydrology flows to the northwest. Wetland impacts are anticipated to include a granular fill driveway connecting the residence to Lake Street and a contiguous granular building pad fill for the residence itself. The proposed driveway will bisect the existing wetland, however, there appears to be continuity provided by the incoming subsurface water from the discharge slope at the eastern boundary of the fill and a new culvert under the driveway near Lake Street. Therefore, overall hydrology on site should continue to feed both segments of the wetland and not be impounded. Overall impacts on site are expected to be about 11,750 square feet, or 0.27 acre.

Appendix A:

Wetland Maps

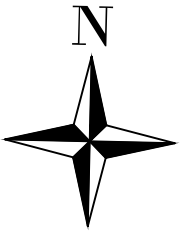
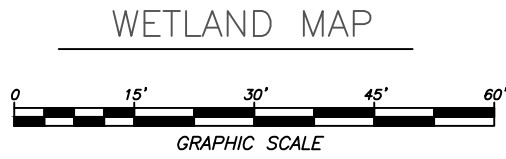
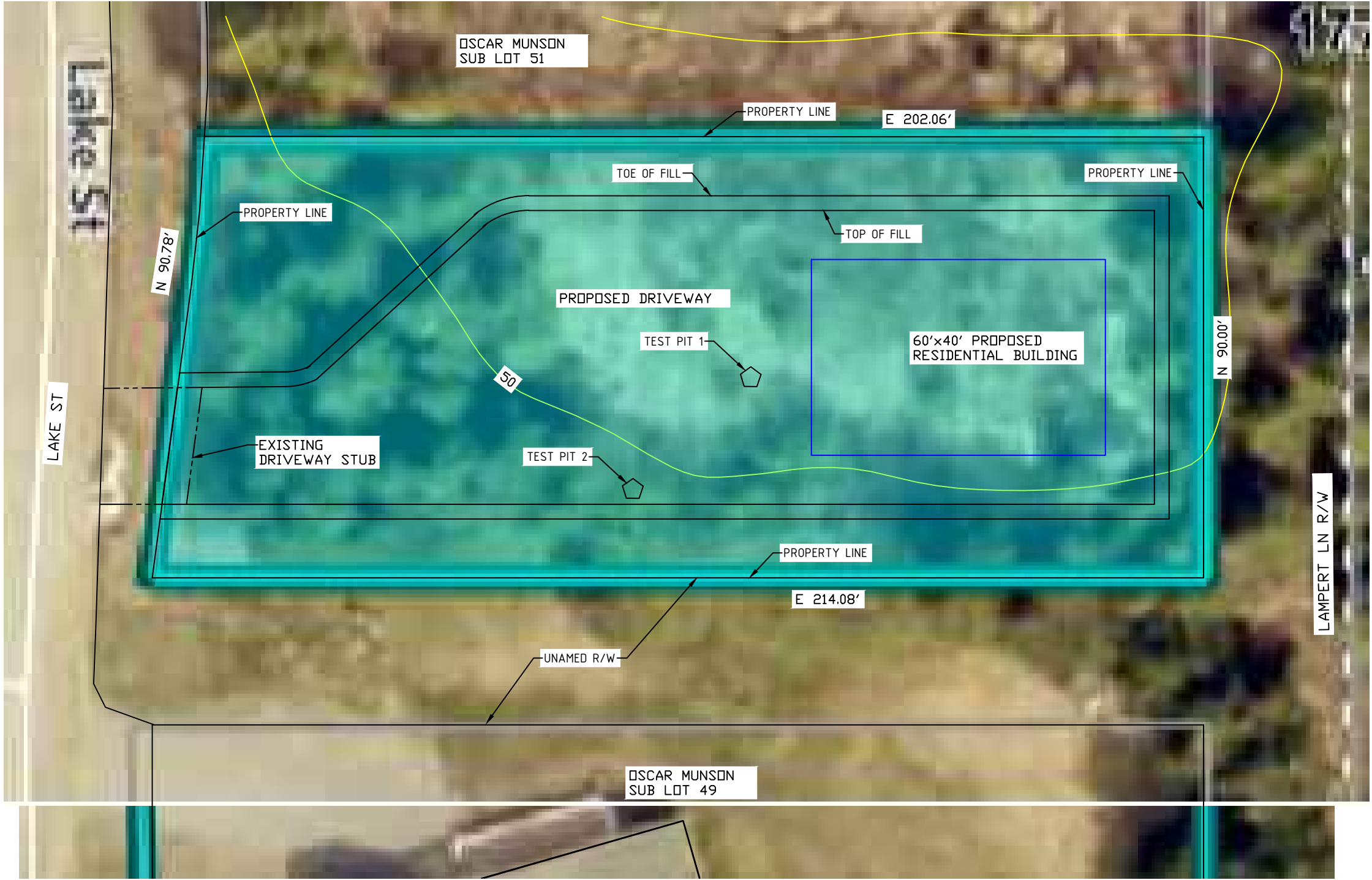


OSCAR MUNSON SUB LOT 50
LAKE ST, HOMER, AK 99603
OWNER: MELISSA COLLINS
LOCATION MAP

BISHOP ENGINEERING, LLC
PO BOX 2501 HOMER, ALASKA 99603
(907) 299-7609

DATE: 6/29/2026
CHK'D: JSB
SCALE: AS NOTED
PROJ. NO.: 2026036

SHEET NO.:
C-1



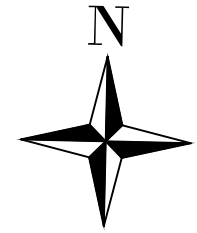
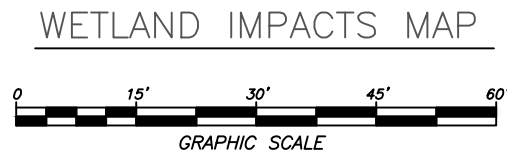
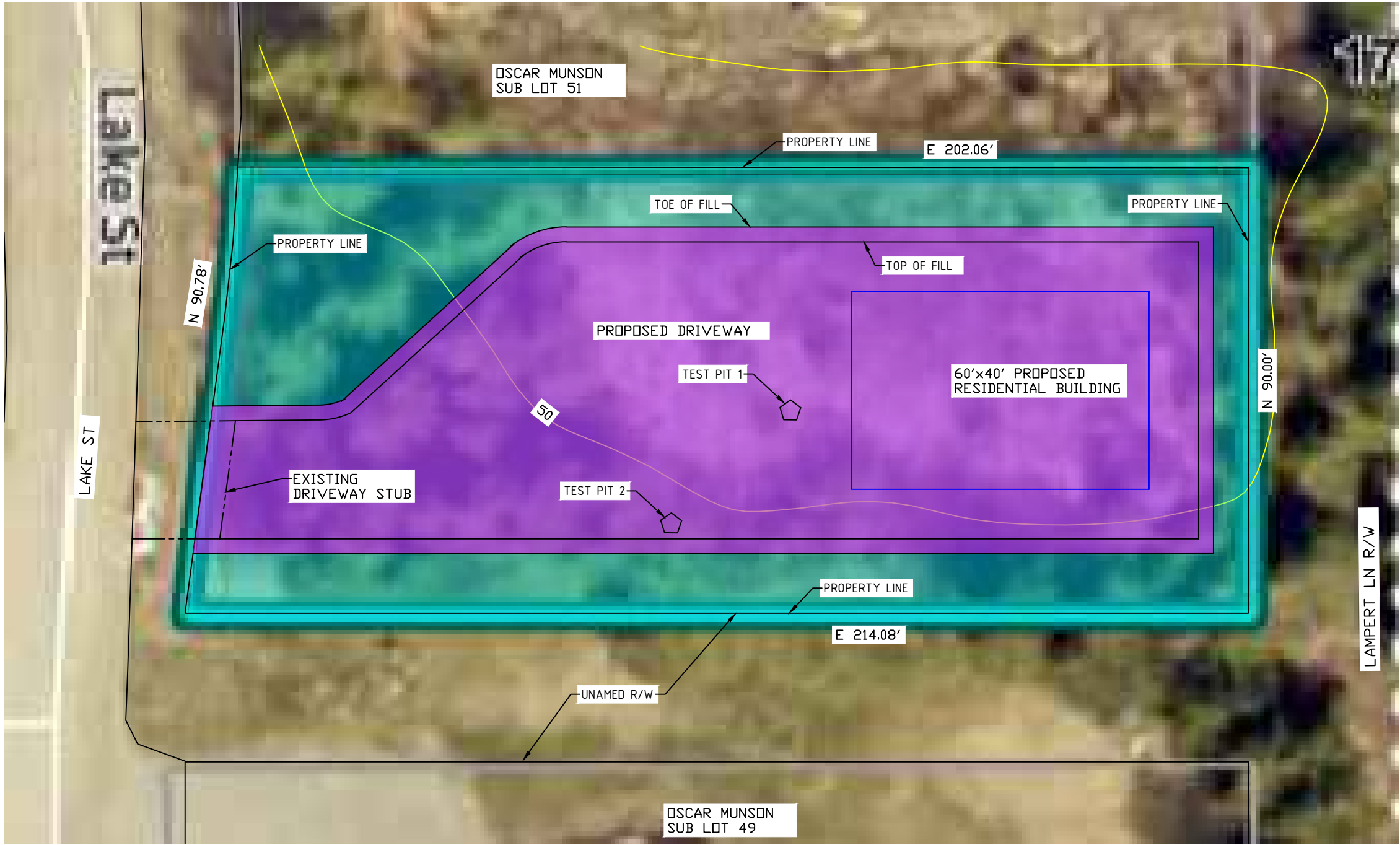
- LEGEND & SYMBOLS
- KETTLE WETLAND (0.43 ACRES)
 - DIRECTION OF DITCH
 - GPS POINTS
 - TEST PITS

OSCAR MUNSON SUB LOT 50
LAKE ST, HOMER, AK 99603
MELISSA COLLINS
WETLAND MAP

BISHOP ENGINEERING, LLC
PO BOX 2501 - HOMER, ALASKA 99603
(907) 299-7609

DATE: 6/29/2026
CHK'D: JSB
SCALE: AS NOTED
PROJ. NO.: 2026036

SHEET NO.:
C-2



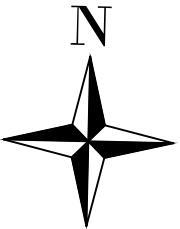
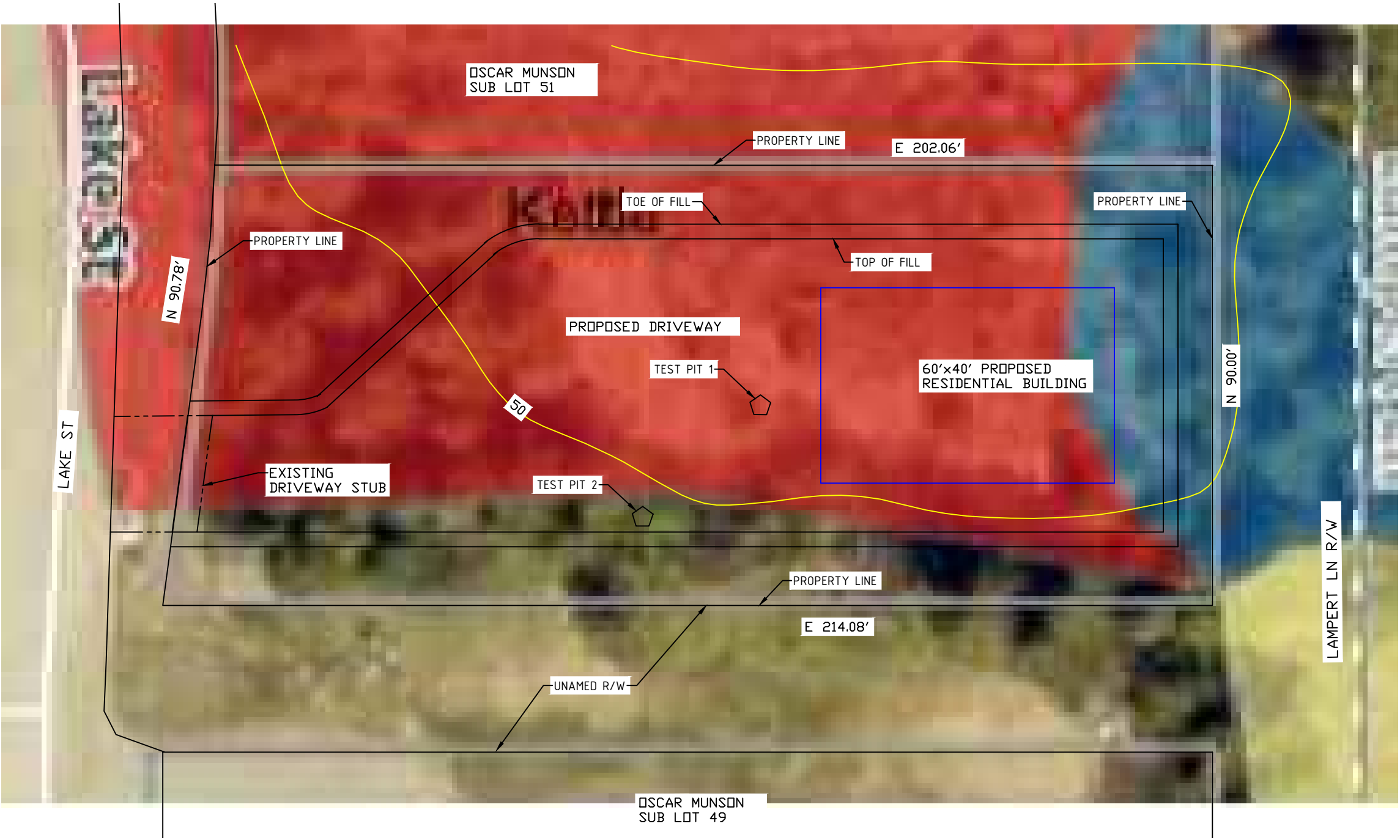
- LEGEND & SYMBOLS
- WETLAND IMPACTS
(10,300 SQFT OR 0.24 ACRES)
 - KETTLE WETLAND (0.43 ACRES)
 - TEST PITS

OSCAR MUNSON SUB LOT 50
LAKE ST, HOMER, AK 99603
MELISSA COLLINS
WETLAND IMPACTS MAP

BISHOP ENGINEERING, LLC
PO BOX 2501 HOMER, ALASKA 99603
(907) 299-7609

DATE: 6/29/2026
CHK'D: JSB
SCALE: AS NOTED
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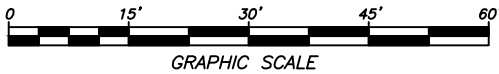
SHEET NO.:
C-3



LEGEND & SYMBOLS

- KWF ASSESSMENT KETTLE WETLAND
- KWF ASSEMENT DISCHARGE SLOPE WETLAND
- TEST PITS

KWF WETLAND MAP



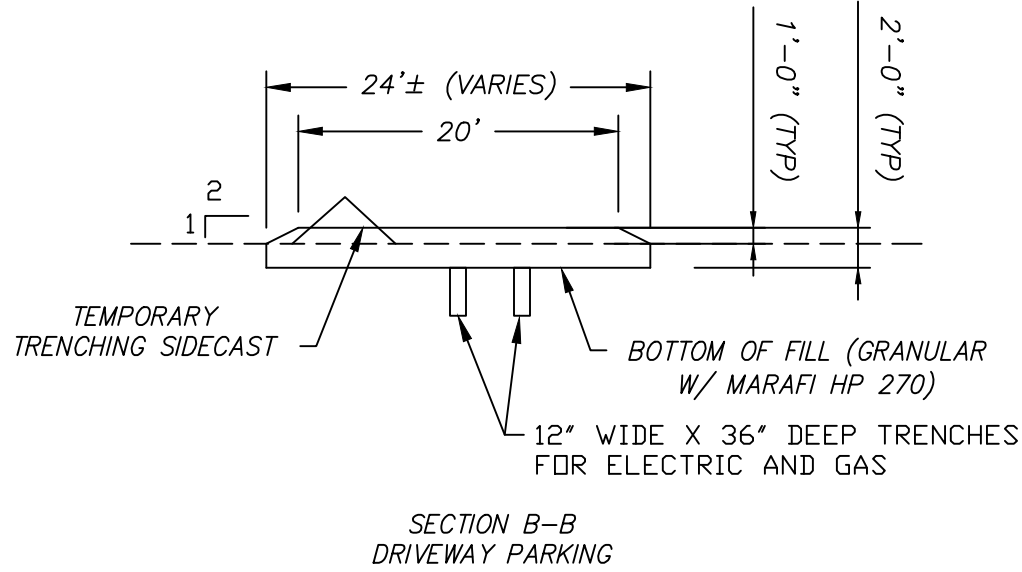
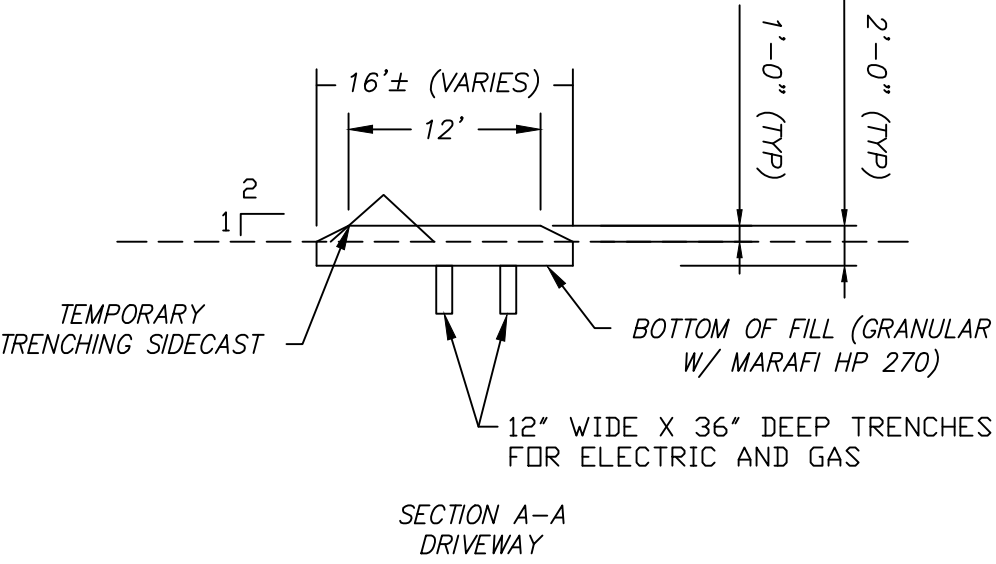
OSCAR MUNSON SUB LOT 50
LAKE ST, HOMER, AK 99603
MELISSA COLLINS
KWF WETLAND MAP

BISHOP ENGINEERING, LLC
PO BOX 2501 HOMER, ALASKA 99603
(907) 299-7609

DATE: 6/29/2026
CHK'D: JSB
SCALE: AS NOTED
PROJ. NO.: 2026036

SHEET NO.:

C-4



OSCAR MUNSON SUB LOT 50
LAKE ST, HOMER, AK 99603
MELISSA COLLINS
SECTIONS

BISHOP ENGINEERING, LLC
PO BOX 2501 HOMER, ALASKA 99603
(907) 299-7609

DATE: 6/29/2026
CHK'D: JSB
SCALE: AS NOTED
PROJ. NO.: 2026036

SHEET NO.:
C-5



PHOTO FROM TEST PIT 1,
FACING NORTH-WEST



PHOTO FROM TEST PIT 1,
FACING WEST



TEST PIT 1 PHOTO A.



TEST PIT 1 PHOTO B.

OSCAR MUNSON SUB LOT 50
LAKE ST, HOMER, AK 99603
OWNER: MELISSA COLLINS
SITE PHOTOS

BISHOP ENGINEERING, LLC
PO BOX 2501 HOMER, ALASKA 99603
(907) 299-7609

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PROJ. NO.: 2026036

SHEET NO.:

C-6



PHOTO FROM DRIVEWAY,
FACING EAST



PHOTO FROM TEST PIT 2,
FACING NORTH-EAST



TEST PIT 2 PHOTO A.



TEST PIT 2 PHOTO B.

OSCAR MUNSON SUB LOT 50
LAKE ST, HOMER, AK 99603
MELISSA COLLINS
SITE PHOTOS

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DATE: 6/29/2026
CHK'D: JSB
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PROJ. NO.: 2026036

SHEET NO.:

C-7

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Alaska Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: <u>Oscar Munson Sub Lot 50</u>	Borough/City: <u>Homer</u>	Sampling Date: <u>6/24/2026</u>
Applicant/Owner: <u>Melissa Collins</u>	Sampling Point: <u>TP1</u>	
Investigator(s): <u>John Bishop - Bishop Engineering</u>	Landform (hillside, terrace, hummocks, etc.): <u>field</u>	
Local relief (concave, convex, none): <u>none</u>	Slope (%): <u><1</u>	
Subregion: <u>LRR W1, MLRA 224 (Cook Inlet Lowlands)</u>	Lat: <u>N59° 38' 11"</u>	Long: <u>W151° 30' 59"</u> Datum: <u>NAD 83</u>
Soil Map Unit Name: <u>651 – Salamatof Peat, 0-4% Slopes</u>	NW1 classification: <u>Uplands</u>	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u> </u> (If no, explain in Remarks.)		
Are Vegetation <u>X</u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u> </u> No <u>X</u>		
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> 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 <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: All vegetation was cleared from site in March 2026. Herbaceous plant growth has grown enough to identify	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 35%;"></th> <th style="width: 15%; text-align: center;">Absolute % Cover</th> <th style="width: 15%; text-align: center;">Dominant Species?</th> <th style="width: 15%; text-align: center;">Indicator Status</th> </tr> <tr><td>1. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td colspan="4" style="text-align: right;">=Total Cover</td></tr> <tr> <td style="text-align: right;">50% of total cover: _____</td> <td colspan="3">20% of total cover: _____</td> </tr> </table> <u>Sapling/Shrub Stratum</u> <table style="width: 100%; border-collapse: collapse;"> <tr><td>1. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>6. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td colspan="4" style="text-align: right;">=Total Cover</td></tr> <tr> <td style="text-align: right;">50% of total cover: _____</td> <td colspan="3">20% of total cover: _____</td> </tr> </table> <u>Herb Stratum</u> <table style="width: 100%; border-collapse: collapse;"> <tr><td>1. <u>Calamagrostis canadensis</u></td><td style="text-align: center;">100</td><td style="text-align: center;">Yes</td><td style="text-align: center;">FAC</td></tr> <tr><td>2. <u>Equisetum arvense</u></td><td style="text-align: center;">80</td><td style="text-align: center;">Yes</td><td style="text-align: center;">FAC</td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>6. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>7. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>8. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>9. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>10. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td colspan="4" style="text-align: right;">180 =Total Cover</td></tr> <tr> <td style="text-align: right;">50% of total cover: <u>90</u></td> <td colspan="3">20% of total cover: <u>36</u></td> </tr> </table> Plot Size (radius, or length x width) <u>10</u> % Bare Ground _____ % Cover of Wetland Bryophytes _____ Total Cover of Bryophytes _____ (Where applicable)		Absolute % Cover	Dominant Species?	Indicator Status	1. _____	_____	_____	_____	2. _____	_____	_____	_____	3. _____	_____	_____	_____	4. _____	_____	_____	_____	=Total Cover				50% of total cover: _____	20% of total cover: _____			1. _____	_____	_____	_____	2. _____	_____	_____	_____	3. _____	_____	_____	_____	4. _____	_____	_____	_____	5. _____	_____	_____	_____	6. _____	_____	_____	_____	=Total Cover				50% of total cover: _____	20% of total cover: _____			1. <u>Calamagrostis canadensis</u>	100	Yes	FAC	2. <u>Equisetum arvense</u>	80	Yes	FAC	3. _____	_____	_____	_____	4. _____	_____	_____	_____	5. _____	_____	_____	_____	6. _____	_____	_____	_____	7. _____	_____	_____	_____	8. _____	_____	_____	_____	9. _____	_____	_____	_____	10. _____	_____	_____	_____	180 =Total Cover				50% of total cover: <u>90</u>	20% of total cover: <u>36</u>			<u>Dominance Test worksheet:</u> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Number of Dominant Species That Are OBL, FACW, or FAC:</td> <td style="text-align: right;"><u>2</u> (A)</td> </tr> <tr> <td>Total Number of Dominant Species Across All Strata:</td> <td style="text-align: right;"><u>2</u> (B)</td> </tr> <tr> <td>Percent of Dominant Species That Are OBL, FACW, or FAC:</td> <td style="text-align: right;"><u>100.0%</u> (A/B)</td> </tr> </table> <u>Prevalence Index worksheet:</u> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; text-align: right;">Total % Cover of:</td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: right;">Multiply by:</td> <td style="width: 40%;"></td> </tr> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 2 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>180</u></td> <td style="text-align: center;">x 3 =</td> <td style="text-align: center;"><u>540</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 4 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 =</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;"><u>180</u> (A)</td> <td></td> <td style="text-align: center;"><u>540</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A =</td> <td></td> <td style="text-align: center;"><u>3.00</u></td> </tr> </table> <u>Hydrophytic Vegetation Indicators:</u> <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0¹ <u> </u> Morphological Adaptations¹(Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. <u>Hydrophytic Vegetation Present?</u> Yes <u>X</u> No <u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</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>100.0%</u> (A/B)	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>180</u>	x 3 =	<u>540</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>180</u> (A)		<u>540</u> (B)	Prevalence Index = B/A =			<u>3.00</u>
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SOIL

Sampling Point: TP1

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		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: ☐ Histosol or Histel (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☒ Hydrogen Sulfide (A4) ☐ Thick Dark Surface (A12) ☐ Alaska Gleyed (A13) ☐ Alaska Redox (A14) ☐ Alaska Gleyed Pores (A15)	Indicators for Problematic Hydric Soils³: ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Red Parent Material (F21) ☐ Very Shallow Dark Surface (F22)	☐ Alaska Color Change (TA4) ⁴ ☐ Alaska Alpine Swales (TA5) ☐ Alaska Redox With 2.5Y Hue ☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer ☐ Other (Explain in Remarks)
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³One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present unless disturbed or problematic.
⁴Give details of color change in Remarks.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes ☒ No _____
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Remarks:
Hydrogen sulfide smell found within 10" of surface

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (any one indicator is sufficient)</u> ☐ Surface Water (A1) ☐ Inundation Visible on Aerial Imagery (B7) ☒ High Water Table (A2) ☐ Sparsely Vegetated Concave Surface (B8) ☒ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☒ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Dry-Season Water Table (C2) ☐ Drift Deposits (B3) ☐ Other (Explain in Remarks) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6)	<u>Secondary Indicators (2 or more required)</u> ☐ Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Salt Deposits (C5) ☐ Stunted or Stressed Plants (D1) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4) ☐ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes _____ No ☒ Depth (inches): _____ Water Table Present? Yes ☒ No _____ Depth (inches): 6 Saturation Present? Yes ☒ No _____ Depth (inches): 2 (includes capillary fringe)	Wetland Hydrology Present? Yes ☒ No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Alaska Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Oscar Munson Sub Lot 50
 Applicant/Owner: Melissa Collins
 Investigator(s): John Bishop - Bishop Engineering
 Local relief (concave, convex, none): none
 Subregion: LRR W1, MLRA 224 (Cook Inlet Lowlands)
 Soil Map Unit Name: 651 – Salamatof Peat, 0-4% Slopes
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation X, Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No X
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Borough/City: Homer
 Sampling Date: 6/26/2026
 Sampling Point: TP2
 Landform (hillside, terrace, hummocks, etc.): field
 Slope (%): <1
 Lat: N59° 38' 10.4" Long: W151° 30' 59" Datum: NAD 83
 NWI classification: Uplands

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
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Remarks:
 All vegetation was cleared from site in March 2026. Herbaceous plant growth has grown enough to identify

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status																																	
1. <u>Picea sitchensis</u>	<u>20</u>	Yes	FACU	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>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B)																																
2. <u> </u>																																				
3. <u> </u>																																				
4. <u> </u>																																				
50% of total cover: <u>10</u> 20% of total cover: <u>4</u>																																				
Sapling/Shrub Stratum																																				
1. <u>Alnus viridis</u>	<u>15</u>	Yes	FAC	Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <th style="width:40%;">Total % Cover of:</th> <th style="width:20%;">Multiply by:</th> <th style="width:20%;"></th> <th style="width:20%;"></th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FAC species <u>195</u></td> <td>x 3 =</td> <td><u>585</u></td> <td></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>x 4 =</td> <td><u>80</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>215</u> (A)</td> <td></td> <td><u>665</u> (B)</td> <td></td> </tr> <tr> <td colspan="4">Prevalence Index = B/A = <u>3.09</u></td> </tr> </table>	Total % Cover of:	Multiply by:			OBL species <u>0</u>	x 1 =	<u>0</u>		FACW species <u>0</u>	x 2 =	<u>0</u>		FAC species <u>195</u>	x 3 =	<u>585</u>		FACU species <u>20</u>	x 4 =	<u>80</u>		UPL species <u>0</u>	x 5 =	<u>0</u>		Column Totals: <u>215</u> (A)		<u>665</u> (B)		Prevalence Index = B/A = <u>3.09</u>			
Total % Cover of:	Multiply by:																																			
OBL species <u>0</u>	x 1 =	<u>0</u>																																		
FACW species <u>0</u>	x 2 =	<u>0</u>																																		
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FACU species <u>20</u>	x 4 =	<u>80</u>																																		
UPL species <u>0</u>	x 5 =	<u>0</u>																																		
Column Totals: <u>215</u> (A)		<u>665</u> (B)																																		
Prevalence Index = B/A = <u>3.09</u>																																				
2. <u> </u>																																				
3. <u> </u>																																				
4. <u> </u>																																				
50% of total cover: <u>8</u> 20% of total cover: <u>3</u>																																				
Herb Stratum																																				
1. <u>Calamagrostis canadensis</u>	<u>100</u>	Yes	FAC	Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u> </u> Prevalence Index is ≤3.0 ¹ <u> </u> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
2. <u>Equisetum arvense</u>	<u>80</u>	Yes	FAC																																	
3. <u> </u>																																				
4. <u> </u>																																				
5. <u> </u>																																				
6. <u> </u>																																				
7. <u> </u>																																				
8. <u> </u>																																				
9. <u> </u>																																				
50% of total cover: <u>90</u> 20% of total cover: <u>36</u>																																				
Plot Size (radius, or length x width) <u>10</u>		% Bare Ground <u> </u>		Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																																
% Cover of Wetland Bryophytes <u> </u>		Total Cover of Bryophytes <u> </u>																																		
Remarks:																																				

SOIL

Sampling Point: TP2

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		
0-5	5YR 2.5/2	100					Peat	Organic Layer
5-9	2.5YR 2.5/2	100					Peat	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
☐ Histosol or Histel (A1)	☐ Depleted Below Dark Surface (A11)	☐ Alaska Color Change (TA4) ⁴	
☐ Histic Epipedon (A2)	☐ Depleted Matrix (F3)	☐ Alaska Alpine Swales (TA5)	
☐ Black Histic (A3)	☐ Redox Dark Surface (F6)	☐ Alaska Redox With 2.5Y Hue	
☒ Hydrogen Sulfide (A4)	☐ Depleted Dark Surface (F7)	☐ Alaska Gleyed Without Hue 5Y or Redder	
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)	☐ Underlying Layer	
☐ Alaska Gleyed (A13)	☐ Red Parent Material (F21)	☐ Other (Explain in Remarks)	
☐ Alaska Redox (A14)	☐ Very Shallow Dark Surface (F22)		
☐ Alaska Gleyed Pores (A15)			

³One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present unless disturbed or problematic.
⁴Give details of color change in Remarks.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes ☒ No ☐
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Remarks:
Only dug to 9" due to shallow ground water and smell of hydrogen sulfide. Did not need to dig deeper

HYDROLOGY

Wetland Hydrology Indicators:				Secondary Indicators (2 or more required)	
Primary Indicators (any one indicator is sufficient)					
☐ Surface Water (A1)	☐ Inundation Visible on Aerial Imagery (B7)	☐ Water-Stained Leaves (B9)			
☒ High Water Table (A2)	☐ Sparsely Vegetated Concave Surface (B8)	☐ Drainage Patterns (B10)			
☒ Saturation (A3)	☐ Marl Deposits (B15)	☐ Oxidized Rhizospheres along Living Roots (C3)			
☐ Water Marks (B1)	☒ Hydrogen Sulfide Odor (C1)	☐ Presence of Reduced Iron (C4)			
☐ Sediment Deposits (B2)	☐ Dry-Season Water Table (C2)	☐ Salt Deposits (C5)			
☐ Drift Deposits (B3)	☐ Other (Explain in Remarks)	☐ Stunted or Stressed Plants (D1)			
☐ Algal Mat or Crust (B4)		☐ Geomorphic Position (D2)			
☐ Iron Deposits (B5)		☐ Shallow Aquitard (D3)			
☐ Surface Soil Cracks (B6)		☐ Microtopographic Relief (D4)			
		☐ FAC-Neutral Test (D5)			

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): _____ Water Table Present? Yes ☒ No ☐ Depth (inches): 7 Saturation Present? Yes ☒ No ☐ Depth (inches): 2 (includes capillary fringe)	Wetland Hydrology Present? Yes ☒ No ☐
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Soil was saturated just below surface vegetation. Ground water found 7" down and continued to fill hole during test