

WETLAND DETERMINATION DATA FORM – Alaska Region

Project/Site: Point Hope Airport Improvements Borough/City: North Slope Borough Sampling Date: 7.14.14
 Applicant/Owner: Alaska Department of Transportation & Public Facilities Sampling Point: 1
 Investigator(s): Kacy Hillman & Daniel De Bord Landform (hillside, terrace, hummocks, etc.): coastal plain
 Local relief (concave, convex, none): convex Slope (%): 0
 Subregion: North Slope Lat: N 68.3519° Long: W -166.7861° Datum: WGS 84
 Soil Map Unit Name: Not Available NWI classification: Upland
 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"/>	Is the Sampled Area within a Wetland? 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"/>	

Remarks: Upland coastal plain area west of cemetery on raised beach dune.

VEGETATION – Use scientific names of plants. List all species in the plot.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)	
2. _____				Total Number of Dominant Species Across All Strata:	<u>2</u> (B)	
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0%</u> (A/B)	
4. _____				Prevalence Index worksheet:		
Total Cover: <u>0</u>				Total % Cover of:	Multiply by:	
50% of total cover: <u>0</u>	20% of total cover: <u>0</u>			OBL species <u>0</u>	x 1 = <u>0</u>	
Sapling/Shrub Stratum				FACW species <u>0</u>	x 2 = <u>0</u>	
1. <u>salarc</u>	<u>Salix arctica</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>	FAC species <u>11</u>	x 3 = <u>33</u>
2. _____					FACU species <u>20</u>	x 4 = <u>80</u>
3. _____					UPL species <u>18</u>	x 5 = <u>90</u>
4. _____					Column Totals: <u>49</u> (A)	<u>203</u> (B)
5. _____					Prevalence Index = B/A = <u>4.14</u>	
6. _____				Hydrophytic Vegetation Indicators:		
Total Cover: <u>20</u>				No Dominance Test is >50%		
50% of total cover: <u>10</u>	20% of total cover: <u>4</u>			No Prevalence Index is ≤3.0		
Herb Stratum				___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1. <u>flaniv</u>	<u>Flavocetraria nivalis</u>	<u>10</u>	<u>Yes</u>	<u>UPL</u>	___ Problematic Hydrophytic Vegetation ¹ (Explain)	
2. <u>erinan</u>	<u>Eritrichium nanaum</u>	<u>5</u>	<u>No</u>	<u>UPL</u>	¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	
3. <u>saxopp</u>	<u>Saxifraga oppositifolia</u>	<u>5</u>	<u>No</u>	<u>FAC</u>		
4. <u>papgor</u>	<u>Papaver gorodkovii</u>	<u>3</u>	<u>No</u>	<u>UPL</u>		
5. <u>luzcon</u>	<u>Luzula confusa</u>	<u>2</u>	<u>No</u>	<u>FAC</u>		
6. <u>chalat</u>	<u>Chamerion latifolium</u>	<u>2</u>	<u>No</u>	<u>FAC</u>		
7. <u>potnan</u>	<u>Potentilla nana</u>	<u>2</u>	<u>No</u>	<u>FAC</u>		
8. <u>oxynig</u>	<u>Oxytropis nigrescens</u>	<u>Tr</u>	<u>No</u>	<u>UPL</u>		
9. _____						
10. _____						
Total Cover: <u>29</u>				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
50% of total cover: <u>14.5</u>	20% of total cover: <u>5.8</u>					
Plot size (radius, or length x width) <u>15 foot radius</u> % Bare Ground _____						
% Cover of Wetland Bryophytes _____ Total Cover of Bryophytes _____ (Where applicable)						

Remarks: Sparse vegetation cover with exposed gravel throughout test plot.

SOIL

Sampling Point: 1

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		
0-10	10 YR 3/1							gravely/sand

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 :
<input type="checkbox"/> Histosol or Histel (A1)	<input type="checkbox"/> Alaska Color Change (TA4) ⁴
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Alaska Alpine Swales (TA5)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Alaska Redox With 2.5Y Hue
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Alaska Gleyed (A13)	<input type="checkbox"/> Alaska Gleyed Without Hue 5Y or Redder Underlying Layer
<input type="checkbox"/> Alaska Redox (A14)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Alaska Gleyed Pores (A15)	

Restrictive Layer (if present):
 Type: permafrost
 Depth (inches): 10
 Hydric Soil Present? Yes No

Remarks: No indications of hydric soil observed at sample location.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<u>Primary Indicators (any one indicator is sufficient)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Salt Deposits (C5)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Microtopographic Relief (D4)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:
 Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? (includes capillary fringe) Yes No Depth (inches): _____
 Wetland Hydrology Present? Yes No

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

Remarks: No field indication of hydrology.

WETLAND DETERMINATION DATA FORM – Alaska Region

Project/Site: Point Hope Airport Improvements Borough/City: North Slope Borough Sampling Date: 7.14.14
 Applicant/Owner: Alaska Department of Transportation & Public Facilities Sampling Point: 2
 Investigator(s): Kacy Hillman & Daniel De Bord Landform (hillside, terrace, hummocks, etc.): coastal plain
 Local relief (concave, convex, none): concave Slope (%): 2
 Subregion: North Slope Lat: N 68.3517° Long: W -166.7864° Datum: WGS 84
 Soil Map Unit Name: Not Available NWI classification: Upland
 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 type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks: Upland coastal plain area west of cemetery on the linear depression of a beach dune.

VEGETATION – Use scientific names of plants. List all species in the plot.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
Total Cover: <u>0</u>			
50% of total cover: <u>0</u>	20% of total cover: <u>0</u>		
Sapling/Shrub Stratum	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>salarc</u> <u>Salix arctica</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
Total Cover: <u>20</u>			
50% of total cover: <u>10</u>	20% of total cover: <u>4</u>		
Herb Stratum	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>poarc</u> <u>Poa arctica</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>
2. <u>equarv</u> <u>Equisetum arvense</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>
3. <u>petfri</u> <u>Petasites frigidus</u>	<u>5</u>	<u>No</u>	<u>FACW</u>
4. <u>flaniv</u> <u>Flavocetraria nivalis</u>	<u>5</u>	<u>No</u>	<u>UPL</u>
5. <u>erilon</u> <u>Erigeron lonchophyllus</u>	<u>3</u>	<u>No</u>	<u>FACW</u>
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
Total Cover: <u>38</u>			
50% of total cover: <u>19</u>	20% of total cover: <u>7.6</u>		

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</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>67%</u> (A/B)
Prevalence Index worksheet:	
Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>8</u>	x 2 = <u>16</u>
FAC species <u>25</u>	x 3 = <u>75</u>
FACU species <u>20</u>	x 4 = <u>80</u>
UPL species <u>5</u>	x 5 = <u>25</u>
Column Totals: <u>58</u> (A)	<u>196</u> (B)
Prevalence Index = B/A = <u>3.38</u>	

Hydrophytic Vegetation Indicators:
 Y Dominance Test is >50%
 No Prevalence Index is ≤3.0
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.

Plot size (radius, or length x width) 15 foot radius % Bare Ground _____
 % Cover of Wetland Bryophytes _____ Total Cover of Bryophytes _____
 (Where applicable)

Hydrophytic Vegetation Present? Yes No

Remarks: Sparse vegetation cover with exposed gravel throughout test plot.

SOIL

Sampling Point: 2

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		
0-8	10 YR 2/2							sandy/organics
8-15	10 YR 2/1							sand

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 :
<input type="checkbox"/> Histosol or Histel (A1)	<input type="checkbox"/> Alaska Color Change (TA4) ⁴
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Alaska Alpine Swales (TA5)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Alaska Redox With 2.5Y Hue
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Alaska Gleyed Without Hue 5Y or Redder Underlying Layer
<input type="checkbox"/> Alaska Gleyed (A13)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Alaska Redox (A14)	
<input type="checkbox"/> 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 present):
 Type: rocks/gravel
 Depth (inches): 15

Hydric Soil Present? Yes No

Remarks: No indications of hydric soil observed at sample location.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<u>Primary Indicators (any one indicator is sufficient)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Salt Deposits (C5)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Microtopographic Relief (D4)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches):

Water Table Present? Yes No Depth (inches):

Saturation Present? Yes No Depth (inches):

(includes capillary fringe)

Wetland Hydrology Present? Yes No

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

Remarks: No field indication of hydrology.

WETLAND DETERMINATION DATA FORM – Alaska Region

Project/Site: Point Hope Airport Improvements Borough/City: North Slope Borough Sampling Date: 7.15.14
 Applicant/Owner: Alaska Department of Transportation & Public Facilities Sampling Point: 5
 Investigator(s): Kacy Hillman & Daniel De Bord Landform (hillside, terrace, hummocks, etc.): coastal plain
 Local relief (concave, convex, none): convex Slope (%): 2
 Subregion: North Slope Lat: N 68.3513° Long: W -166.7929° Datum: WGS 84
 Soil Map Unit Name: Not Available NWI classification: Upland
 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"/>	Is the Sampled Area within a Wetland? 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"/>	

Remarks: Upland coastal plain area.

VEGETATION – Use scientific names of plants. List all species in the plot.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
Total Cover: <u>0</u>			
50% of total cover: <u>0</u>		20% of total cover: <u>0</u>	

Sapling/Shrub Stratum	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>salarc</u> <u>Salix arctica</u>	<u>4</u>	<u>Yes</u>	<u>FACU</u>
2. <u>castet</u> <u>Cassiope tetragona</u>	<u>2</u>	<u>Yes</u>	<u>FACU</u>
3. _____			
4. _____			
5. _____			
6. _____			
Total Cover: <u>6</u>			
50% of total cover: <u>3</u>		20% of total cover: <u>1.2</u>	

Herb Stratum	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>chalat</u> <u>Chamerion latifolium</u>	<u>4</u>	<u>Yes</u>	<u>FAC</u>
2. <u>papgor</u> <u>Papaver gorodkovii</u>	<u>2</u>	<u>Yes</u>	<u>UPL</u>
3. <u>erinan</u> <u>Eritrichium nanaum</u>	<u>2</u>	<u>Yes</u>	<u>UPL</u>
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
Total Cover: <u>8</u>			
50% of total cover: <u>4</u>		20% of total cover: <u>1.6</u>	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 20% (A/B)

Prevalence Index worksheet:

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>4</u>	x 3 = <u>12</u>
FACU species <u>6</u>	x 4 = <u>24</u>
UPL species <u>4</u>	x 5 = <u>20</u>
Column Totals: <u>14</u> (A)	<u>56</u> (B)
Prevalence Index = B/A = <u>4.00</u>	

Hydrophytic Vegetation Indicators:

No Dominance Test is >50%

No Prevalence Index is ≤3.0

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.

Plot size (radius, or length x width) 15 foot radius % Bare Ground _____
 % Cover of Wetland Bryophytes _____ Total Cover of Bryophytes _____
 (Where applicable)

Remarks: Sparse vegetation cover with exposed gravel throughout test plot.

SOIL

Sampling Point: 5

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		
0-4	10YR 3/1							organics/sand/gravel
4-14	10YR 2/2							sand/gravel

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 :
<input type="checkbox"/> Histosol or Histel (A1)	<input type="checkbox"/> Alaska Color Change (TA4) ⁴
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Alaska Alpine Swales (TA5)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Alaska Redox With 2.5Y Hue
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Alaska Gleyed (A13)	<input type="checkbox"/> Alaska Gleyed Without Hue 5Y or Redder Underlying Layer
<input type="checkbox"/> Alaska Redox (A14)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Alaska Gleyed Pores (A15)	

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____
Hydric Soil Present? Yes _____ No X

Remarks: Gravel falling in on itself while attempting to excavate test hole deeper.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Salt Deposits (C5)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Microtopographic Relief (D4)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:
 Surface Water Present? Yes _____ No X Depth (inches): _____
 Water Table Present? Yes _____ No X Depth (inches): _____
 Saturation Present? Yes _____ No X Depth (inches): _____
 (includes capillary fringe)
Wetland Hydrology Present? Yes _____ No X

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

Remarks: No field indication of hydrology.

WETLAND DETERMINATION DATA FORM – Alaska Region

Project/Site: Point Hope Airport Improvements Borough/City: North Slope Borough Sampling Date: 7.15.14
 Applicant/Owner: Alaska Department of Transportation & Public Facilities Sampling Point: 6
 Investigator(s): Kacy Hillman & Daniel De Bord Landform (hillside, terrace, hummocks, etc.): coastal plain
 Local relief (concave, convex, none): concave Slope (%): 2
 Subregion: North Slope Lat: N 68.3511° Long: W -166.7908° Datum: WGS 84
 Soil Map Unit Name: Not Available NWI classification: PEM1B
 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"/>	Is the Sampled Area within a Wetland? 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"/>	

Remarks: Linear depressional area carries water within the beach dune area.

VEGETATION – Use scientific names of plants. List all species in the plot.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>50%</u> (A/B)
4. _____				Prevalence Index worksheet:	
Total Cover: <u>0</u>				Total % Cover of:	Multiply by:
50% of total cover: <u>0</u>	20% of total cover: <u>0</u>			OBL species <u>0</u>	x 1 = <u>0</u>
Sapling/Shrub Stratum				FACW species <u>5</u>	x 2 = <u>10</u>
1. <u>salarc</u> <u>Salix arctica</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>	FAC species <u>65</u>	x 3 = <u>195</u>
2. _____				FACU species <u>5</u>	x 4 = <u>20</u>
3. _____				UPL species <u>0</u>	x 5 = <u>0</u>
4. _____				Column Totals: <u>75</u> (A)	<u>225</u> (B)
5. _____				Prevalence Index = B/A = <u>3.00</u>	
6. _____				Hydrophytic Vegetation Indicators:	
Total Cover: <u>5</u>				No <input type="checkbox"/> Dominance Test is >50%	
50% of total cover: <u>2.5</u>	20% of total cover: <u>1</u>			Y <input type="checkbox"/> Prevalence Index is ≤3.0	
Herb Stratum				___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
1. <u>carbigo</u> <u>Carex bigelowii</u>	<u>60</u>	<u>Yes</u>	<u>FAC</u>	___ Problematic Hydrophytic Vegetation ¹ (Explain)	
2. _____ <u>Carex microchaeta</u>	<u>5</u>	<u>No</u>	<u>FAC</u>	¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	
3. <u>petfri</u> <u>Petasites frigidus</u>	<u>5</u>	<u>No</u>	<u>FACW</u>		
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
Total Cover: <u>70</u>				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
50% of total cover: <u>35</u>	20% of total cover: <u>14</u>				
Plot size (radius, or length x width) <u>15 foot radius</u> % Bare Ground _____					
% Cover of Wetland Bryophytes _____ Total Cover of Bryophytes _____ (Where applicable)					

Remarks: Carex bigelowii dominates vegetation in test plot area. Lack of surface gravel as seen in previous test plot areas.

SOIL

Sampling Point: 6

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		
0-20	10YR 3/1							organics/sandy

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 :
<input type="checkbox"/> Histosol or Histel (A1)	<input type="checkbox"/> Alaska Color Change (TA4) ⁴
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Alaska Alpine Swales (TA5)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Alaska Redox With 2.5Y Hue
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Alaska Gleyed (A13)	
<input type="checkbox"/> Alaska Redox (A14)	
<input type="checkbox"/> Alaska Gleyed Pores (A15)	

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____
Hydric Soil Present? Yes No

Remarks: Hydrogen sulfide odor apparent walking through test area without test pit excavation.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-stained Leaves (B9)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Salt Deposits (C5)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Microtopographic Relief (D4)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:
 Surface Water Present? Yes No Depth (inches): 0
 Water Table Present? Yes No Depth (inches): 0
 Saturation Present? (includes capillary fringe) Yes No Depth (inches): 0
Wetland Hydrology Present? Yes No

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

Remarks: Visible standing water through test plot area.

WETLAND DETERMINATION DATA FORM – Alaska Region

Project/Site: Point Hope Airport Improvements Borough/City: North Slope Borough Sampling Date: 7.15.14
 Applicant/Owner: Alaska Department of Transportation & Public Facilities Sampling Point: 7
 Investigator(s): Kacy Hillman & Daniel De Bord Landform (hillside, terrace, hummocks, etc.): coastal plain
 Local relief (concave, convex, none): convex Slope (%): 2
 Subregion: North Slope Lat: N 68.3494° Long: W -166.7934° Datum: WGS 84
 Soil Map Unit Name: Not Available NWI classification: Upland
 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"/>	Is the Sampled Area within a Wetland? 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"/>	

Remarks: Rolling beach dunes of coastal plain area. Gravel ground cover abundant.

VEGETATION – Use scientific names of plants. List all species in the plot.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)	
2. _____				Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25%</u> (A/B)	
4. _____				Prevalence Index worksheet:	
Total Cover: <u>0</u>				Total % Cover of:	
50% of total cover: <u>0</u>				Multiply by:	
20% of total cover: <u>0</u>				OBL species	<u>0</u> x 1 = <u>0</u>
Total Cover: <u>14</u>				FACW species	<u>0</u> x 2 = <u>0</u>
50% of total cover: <u>7</u>				FAC species	<u>4</u> x 3 = <u>12</u>
20% of total cover: <u>2.8</u>				FACU species	<u>14</u> x 4 = <u>56</u>
Total Cover: <u>8</u>				UPL species	<u>4</u> x 5 = <u>20</u>
50% of total cover: <u>4</u>				Column Totals:	<u>22</u> (A) <u>88</u> (B)
20% of total cover: <u>1.6</u>				Prevalence Index = B/A = <u>4.00</u>	
Total Cover: <u>8</u>				Hydrophytic Vegetation Indicators:	
50% of total cover: <u>4</u>				No Dominance Test is >50%	
20% of total cover: <u>1.6</u>				No Prevalence Index is ≤3.0	
Total Cover: <u>8</u>				___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
50% of total cover: <u>4</u>				___ Problematic Hydrophytic Vegetation ¹ (Explain)	
20% of total cover: <u>1.6</u>				¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	
Total Cover: <u>8</u>				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
50% of total cover: <u>4</u>					
20% of total cover: <u>1.6</u>					
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Total Cover: <u>8</u>					
50% of total cover: <u>4</u>					
20% of total cover: <u>1.6</u>					
Total Cover					

SOIL

Sampling Point: 7

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		
0-10								sandy/gravel

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 :
<input type="checkbox"/> Histosol or Histel (A1)	<input type="checkbox"/> Alaska Color Change (TA4) ⁴
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Alaska Alpine Swales (TA5)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Alaska Redox With 2.5Y Hue
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Alaska Gleyed (A13)	³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present unless disturbed or problematic.
<input type="checkbox"/> Alaska Redox (A14)	⁴ Give details of color change in Remarks.
<input type="checkbox"/> Alaska Gleyed Pores (A15)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
--	---

Remarks: Gravel falling in on itself while attempting to excavate test hole deeper.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<u>Primary Indicators (any one indicator is sufficient)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Salt Deposits (C5)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Microtopographic Relief (D4)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <u>X</u> Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No field indication of hydrology.

WETLAND DETERMINATION DATA FORM – Alaska Region

Project/Site: Point Hope Airport Improvements Borough/City: North Slope Borough Sampling Date: 7.15.14
 Applicant/Owner: Alaska Department of Transportation & Public Facilities Sampling Point: 9
 Investigator(s): Kacy Hillman & Daniel De Bord Landform (hillside, terrace, hummocks, etc.): coastal plain
 Local relief (concave, convex, none): convex Slope (%): 2
 Subregion: North Slope Lat: N 68.3447° Long: W -166.8008° Datum: WGS 84
 Soil Map Unit Name: Not Available NWI classification: Upland
 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 type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks: Old material site south of apron. Mostly exposed gravel with minimal vegetation.

VEGETATION – Use scientific names of plants. List all species in the plot.

<p><u>Tree Stratum</u></p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p align="right">Total Cover: <u>0</u></p> <p>50% of total cover: <u>0</u> 20% of total cover: <u>0</u></p> <p><u>Sapling/Shrub Stratum</u></p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>6. _____</p> <p align="right">Total Cover: <u>0</u></p> <p>50% of total cover: <u>0</u> 20% of total cover: <u>0</u></p> <p><u>Herb Stratum</u></p> <table border="0"> <tr> <td>1. <u>Chalchilat</u></td> <td><u>Chamerion latifolium</u></td> <td><u>2</u></td> <td><u>Yes</u></td> <td><u>FAC</u></td> </tr> <tr> <td>2. <u>Elyare</u></td> <td><u>Elymus arenarius</u></td> <td><u>Tr</u></td> <td><u>No</u></td> <td><u>UPL</u></td> </tr> <tr> <td>3. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>4. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>5. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>6. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>7. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>8. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>9. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>10. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </table> <p align="right">Total Cover: <u>2</u></p> <p>50% of total cover: <u>1</u> 20% of total cover: <u>0.4</u></p> <p>Plot size (radius, or length x width) <u>15 foot radius</u> % Bare Ground _____</p> <p>% Cover of Wetland Bryophytes _____ Total Cover of Bryophytes _____ (Where applicable)</p>	1. <u>Chalchilat</u>	<u>Chamerion latifolium</u>	<u>2</u>	<u>Yes</u>	<u>FAC</u>	2. <u>Elyare</u>	<u>Elymus arenarius</u>	<u>Tr</u>	<u>No</u>	<u>UPL</u>	3. _____	_____	_____	_____	_____	4. _____	_____	_____	_____	_____	5. _____	_____	_____	_____	_____	6. _____	_____	_____	_____	_____	7. _____	_____	_____	_____	_____	8. _____	_____	_____	_____	_____	9. _____	_____	_____	_____	_____	10. _____	_____	_____	_____	_____	<p>Dominance Test worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>1</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)</p> <p>Prevalence Index worksheet:</p> <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>2</u></td> <td>x 3 = <u>6</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>2</u> (A)</td> <td><u>6</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.00</u></td> </tr> </table> <p>Hydrophytic Vegetation Indicators:</p> <p><u>Y</u> Dominance Test is >50%</p> <p><u>Y</u> Prevalence Index is ≤3.0</p> <p>___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)</p> <p>___ Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.</p> <hr/> <p>Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	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>2</u>	x 3 = <u>6</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>2</u> (A)	<u>6</u> (B)	Prevalence Index = B/A = <u>3.00</u>	
1. <u>Chalchilat</u>	<u>Chamerion latifolium</u>	<u>2</u>	<u>Yes</u>	<u>FAC</u>																																																															
2. <u>Elyare</u>	<u>Elymus arenarius</u>	<u>Tr</u>	<u>No</u>	<u>UPL</u>																																																															
3. _____	_____	_____	_____	_____																																																															
4. _____	_____	_____	_____	_____																																																															
5. _____	_____	_____	_____	_____																																																															
6. _____	_____	_____	_____	_____																																																															
7. _____	_____	_____	_____	_____																																																															
8. _____	_____	_____	_____	_____																																																															
9. _____	_____	_____	_____	_____																																																															
10. _____	_____	_____	_____	_____																																																															
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>2</u>	x 3 = <u>6</u>																																																																		
FACU species <u>0</u>	x 4 = <u>0</u>																																																																		
UPL species <u>0</u>	x 5 = <u>0</u>																																																																		
Column Totals: <u>2</u> (A)	<u>6</u> (B)																																																																		
Prevalence Index = B/A = <u>3.00</u>																																																																			

Remarks: Mostly exposed gravel (90%) with minimal vegetation.

SOIL

Sampling Point: 9

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		
0-10								gravel/sand

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 :
<input type="checkbox"/> Histosol or Histel (A1)	<input type="checkbox"/> Alaska Color Change (TA4) ⁴
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Alaska Alpine Swales (TA5)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Alaska Redox With 2.5Y Hue
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Alaska Gleyed Without Hue 5Y or Redder Underlying Layer
<input type="checkbox"/> Alaska Gleyed (A13)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Alaska Redox (A14)	
<input type="checkbox"/> 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 present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u> X </u>
--	--

Remarks: Gravel falling in on itself while attempting to excavate test hole deeper.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<u>Primary Indicators (any one indicator is sufficient)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Salt Deposits (C5)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Microtopographic Relief (D4)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No <u> X </u> Depth (inches): _____ Water Table Present? Yes _____ No <u> X </u> Depth (inches): _____ Saturation Present? Yes _____ No <u> X </u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u> X </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No field indication of hydrology.

WETLAND DETERMINATION DATA FORM – Alaska Region

Project/Site: Point Hope Airport Improvements Borough/City: North Slope Borough Sampling Date: 7.15.14
 Applicant/Owner: Alaska Department of Transportation & Public Facilities Sampling Point: 11
 Investigator(s): Kacy Hillman & Daniel De Bord Landform (hillside, terrace, hummocks, etc.): coastal plain
 Local relief (concave, convex, none): convex Slope (%): 2
 Subregion: North Slope Lat: N 68.3434° Long: W -166.8100° Datum: WGS 84
 Soil Map Unit Name: Not Available NWI classification: Upland
 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"/>	Is the Sampled Area within a Wetland? 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"/>	

Remarks: Southwest edge of where vegetation begins growing from tidal area.

VEGETATION – Use scientific names of plants. List all species in the plot.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>1</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100%</u> (A/B)
4. _____				Prevalence Index worksheet:	
	Total Cover: <u>0</u>			Total % Cover of:	Multiply by:
	50% of total cover: <u>0</u>	20% of total cover: <u>0</u>		OBL species <u>0</u>	x 1 = <u>0</u>
				FACW species <u>0</u>	x 2 = <u>0</u>
				FAC species <u>27</u>	x 3 = <u>81</u>
				FACU species <u>0</u>	x 4 = <u>0</u>
				UPL species <u>0</u>	x 5 = <u>0</u>
				Column Totals: <u>27</u> (A)	<u>81</u> (B)
				Prevalence Index = B/A = <u>3.00</u>	
Sapling/Shrub Stratum				Hydrophytic Vegetation Indicators:	
1. _____				<input checked="" type="checkbox"/> Dominance Test is >50%	
2. _____				<input checked="" type="checkbox"/> Prevalence Index is ≤3.0	
3. _____				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. _____				¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
	Total Cover: <u>27</u>			Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
	50% of total cover: <u>13.5</u>	20% of total cover: <u>5.4</u>			
Plot size (radius, or length x width) <u>15 foot radius</u>	% Bare Ground _____				
% Cover of Wetland Bryophytes _____	Total Cover of Bryophytes _____				
(Where applicable)					

Remarks: Sparse vegetation coverage with 80% of ground cover comprised of gravel.

SOIL

Sampling Point: 11

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		
0-10								gravel/rock

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 :
<input type="checkbox"/> Histosol or Histel (A1)	<input type="checkbox"/> Alaska Color Change (TA4) ⁴
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Alaska Alpine Swales (TA5)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Alaska Redox With 2.5Y Hue
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Alaska Gleyed Without Hue 5Y or Redder Underlying Layer
<input type="checkbox"/> Alaska Gleyed (A13)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Alaska Redox (A14)	
<input type="checkbox"/> 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 present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
--	--

Remarks: Gravel falling in on itself while attempting to excavate test hole deeper.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<u>Primary Indicators (any one indicator is sufficient)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Salt Deposits (C5)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Microtopographic Relief (D4)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:	Wetland Hydrology Present? Yes _____ No <u>X</u>
Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____	
Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____	
Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	

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

Remarks: FALSE

WETLAND DETERMINATION DATA FORM – Alaska Region

Project/Site: Point Hope Airport Improvements Borough/City: North Slope Borough Sampling Date: 7.15.14
 Applicant/Owner: Alaska Department of Transportation & Public Facilities Sampling Point: 13
 Investigator(s): Kacy Hillman & Daniel De Bord Landform (hillside, terrace, hummocks, etc.): coastal plain
 Local relief (concave, convex, none): concave Slope (%): 2
 Subregion: North Slope Lat: N 68.3453° Long: W -166.8060° Datum: WGS 84
 Soil Map Unit Name: Not Available NWI classification: Upland
 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"/>	Is the Sampled Area within a Wetland? 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 checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: Linear beach dune depression between raised beach dune areas.

VEGETATION – Use scientific names of plants. List all species in the plot.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)	
2. _____				Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)	
4. _____				Prevalence Index worksheet:	
Total Cover: <u>0</u>				Total % Cover of:	Multiply by:
50% of total cover: <u>0</u>	20% of total cover: <u>0</u>			OBL species <u>0</u> x 1 = <u>0</u>	
Sapling/Shrub Stratum				FACW species <u>0</u> x 2 = <u>0</u>	
1. <u>salarc</u> <u>Salix arctica</u>	<u>3</u>	<u>Yes</u>	<u>FACU</u>	FAC species <u>13</u> x 3 = <u>39</u>	
2. _____				FACU species <u>3</u> x 4 = <u>12</u>	
3. _____				UPL species <u>10</u> x 5 = <u>50</u>	
4. _____				Column Totals: <u>26</u> (A) <u>101</u> (B)	
5. _____				Prevalence Index = B/A = <u>3.88</u>	
6. _____				Hydrophytic Vegetation Indicators:	
Total Cover: <u>3</u>				No Dominance Test is >50%	
50% of total cover: <u>1.5</u>	20% of total cover: <u>0.6</u>			No Prevalence Index is ≤3.0	
Herb Stratum				___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
1. <u>poarc</u> <u>Poa arctica</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	___ Problematic Hydrophytic Vegetation ¹ (Explain)	
2. <u>priexi</u> <u>Primula eximia</u>	<u>10</u>	<u>Yes</u>	<u>UPL</u>	¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	
3. <u>luzcon</u> <u>Luzula confusa</u>	<u>3</u>	<u>No</u>	<u>FAC</u>		
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
Total Cover: <u>23</u>					
50% of total cover: <u>11.5</u>	20% of total cover: <u>4.6</u>				
Plot size (radius, or length x width) <u>15 foot radius</u> % Bare Ground _____					
% Cover of Wetland Bryophytes <u>40</u> Total Cover of Bryophytes _____ (Where applicable)					

Remarks: Less gravel ground coverage than previous test area, more vegetation coverage, and addition of sphagnum cover.

SOIL

Sampling Point: 13

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		
0-4	10YR 3/1							sandy/organics
5-15								gravely/sand

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 :
<input type="checkbox"/> Histosol or Histel (A1)	<input type="checkbox"/> Alaska Color Change (TA4) ⁴
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Alaska Alpine Swales (TA5)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Alaska Redox With 2.5Y Hue
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Alaska Gleyed (A13)	<input type="checkbox"/> Alaska Gleyed Without Hue 5Y or Redder Underlying Layer
<input type="checkbox"/> Alaska Redox (A14)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 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 present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks: No indications of hydric soil observed at sample location.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Salt Deposits (C5)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Microtopographic Relief (D4)
	<input type="checkbox"/> FAC-Neutral Test (D5)

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

Wetland Hydrology Present? Yes X No _____

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

Remarks: Surface soil cracks indicate prolonged ponding during part of the year, but no other wetland indicators present within the test area.

WETLAND DETERMINATION DATA FORM – Alaska Region

Project/Site: Point Hope Airport Improvements Borough/City: North Slope Borough Sampling Date: 7.15.14
 Applicant/Owner: Alaska Department of Transportation & Public Facilities Sampling Point: 15
 Investigator(s): Kacy Hillman & Daniel De Bord Landform (hillside, terrace, hummocks, etc.): coastal plain
 Local relief (concave, convex, none): concave Slope (%): 2
 Subregion: North Slope Lat: N 68.344774802 Long: W -166.807623606 Datum: WGS 84
 Soil Map Unit Name: Not Available NWI classification: PEM1B

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: <u>Linear beach dune depression between raised beach dune areas.</u>	

VEGETATION – Use scientific names of plants. List all species in the plot.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)																
2. _____				Total Number of Dominant Species Across All Strata:	<u>3</u> (B)																
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>67%</u> (A/B)																
4. _____				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>80</u></td> <td>x 1 = <u>80</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>75</u></td> <td>x 3 = <u>225</u></td> </tr> <tr> <td>FACU species <u>2</u></td> <td>x 4 = <u>8</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>157</u> (A)</td> <td><u>313</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.99</u></td> </tr> </table>		Total % Cover of:	Multiply by:	OBL species <u>80</u>	x 1 = <u>80</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>75</u>	x 3 = <u>225</u>	FACU species <u>2</u>	x 4 = <u>8</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>157</u> (A)	<u>313</u> (B)	Prevalence Index = B/A = <u>1.99</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>80</u>	x 1 = <u>80</u>																				
FACW species <u>0</u>	x 2 = <u>0</u>																				
FAC species <u>75</u>	x 3 = <u>225</u>																				
FACU species <u>2</u>	x 4 = <u>8</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>157</u> (A)	<u>313</u> (B)																				
Prevalence Index = B/A = <u>1.99</u>																					
Total Cover: <u>0</u>																					
50% of total cover: <u>0</u>			20% of total cover: <u>0</u>																		
Sapling/Shrub Stratum	1. <u>salarc</u> <u>Salix arctica</u> <u>2</u> Yes <u>FACU</u>			Hydrophytic Vegetation Indicators: Y <input type="checkbox"/> Dominance Test is >50% Y <input type="checkbox"/> Prevalence Index is ≤3.0 ___ <input type="checkbox"/> 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.																	
2. _____																					
3. _____																					
4. _____																					
5. _____																					
6. _____																					
Total Cover: <u>2</u>																					
50% of total cover: <u>1</u>			20% of total cover: <u>0.4</u>																		
Herb Stratum	1. <u>cararc</u> <u>Carex arcta</u> <u>80</u> Yes <u>OBL</u>																				
2. <u>poarc</u> <u>Poa arctica</u> <u>60</u> Yes <u>FAC</u>																					
3. <u>chalat</u> <u>Chamerion latifolium</u> <u>10</u> No <u>FAC</u>																					
4. _____ <u>Carex microchaeta</u> <u>5</u> No <u>FAC</u>																					
5. _____																					
6. _____																					
7. _____																					
8. _____																					
9. _____																					
10. _____																					
Total Cover: <u>155</u>																					
50% of total cover: <u>77.5</u>			20% of total cover: <u>31</u>																		
Plot size (radius, or length x width) <u>15 foot radius</u> % Bare Ground _____ % Cover of Wetland Bryophytes _____ Total Cover of Bryophytes _____ (Where applicable)																					
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																					

Remarks: Wetland vegetation present at the bottom of linear depressional area.

SOIL

Sampling Point: 15

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		
0-4	10YR 3/1						sandy/organics
4-13							gravely/sand

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 :	
<input type="checkbox"/> Histosol or Histel (A1)	<input type="checkbox"/> Alaska Color Change (TA4) ⁴	<input type="checkbox"/> Alaska Gleyed Without Hue 5Y or Redder Underlying Layer
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Alaska Alpine Swales (TA5)	<input type="checkbox"/> Other (Explain in Remarks)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Alaska Redox With 2.5Y Hue	
<input type="checkbox"/> Thick Dark Surface (A12)		
<input type="checkbox"/> Alaska Gleyed (A13)	³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present unless disturbed or problematic.	
<input type="checkbox"/> Alaska Redox (A14)	⁴ Give details of color change in Remarks.	
<input type="checkbox"/> Alaska Gleyed Pores (A15)		

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: Hydrogen sulfide odor apparent walking through test area without test pit excavation.

HYDROLOGY

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

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>10</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>10</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Wetland hydrology observed at sample point.

WETLAND DETERMINATION DATA FORM – Alaska Region

Project/Site: Point Hope Airport Improvements Borough/City: North Slope Borough Sampling Date: 7.15.14
 Applicant/Owner: Alaska Department of Transportation & Public Facilities Sampling Point: 17
 Investigator(s): Kacy Hillman & Daniel De Bord Landform (hillside, terrace, hummocks, etc.): coastal plain
 Local relief (concave, convex, none): concave Slope (%): 2
 Subregion: North Slope Lat: N 68.346357846 Long: W -166.803958716 Datum: WGS 84
 Soil Map Unit Name: Not Available NWI classification: Upland
 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"/>	Is the Sampled Area within a Wetland? 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 checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: Upland coastal plain area on the raised area of a beach dune.

VEGETATION – Use scientific names of plants. List all species in the plot.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>3</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>33%</u> (A/B)
4. _____				Prevalence Index worksheet:	
Total Cover: <u>0</u>				Total % Cover of:	Multiply by:
50% of total cover: <u>0</u>				OBL species <u>0</u>	x 1 = <u>0</u>
20% of total cover: <u>0</u>				FACW species <u>3</u>	x 2 = <u>6</u>
Sapling/Shrub Stratum				FAC species <u>12</u>	x 3 = <u>36</u>
1. <u>salarc</u> <u>Salix arctica</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>	FACU species <u>5</u>	x 4 = <u>20</u>
2. _____				UPL species <u>5</u>	x 5 = <u>25</u>
3. _____				Column Totals: <u>25</u> (A)	<u>87</u> (B)
4. _____				Prevalence Index = B/A =	<u>3.48</u>
5. _____				Hydrophytic Vegetation Indicators:	
6. _____				No Dominance Test is >50%	
7. _____				No Prevalence Index is ≤3.0	
8. _____				___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
9. _____				___ Problematic Hydrophytic Vegetation ¹ (Explain)	
10. _____				¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	
Total Cover: <u>5</u>				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
50% of total cover: <u>2.5</u>					
20% of total cover: <u>1</u>					
Herb Stratum					
1. <u>poarc</u> <u>Poa arctica</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>		
2. <u>elyare</u> <u>Elymus arenarius</u>	<u>5</u>	<u>Yes</u>	<u>UPL</u>		
3. <u>petfri</u> <u>Petasites frigidus</u>	<u>3</u>	<u>No</u>	<u>FACW</u>		
4. <u>luzcon</u> <u>Luzula confusa</u>	<u>2</u>	<u>No</u>	<u>FAC</u>		
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
Total Cover: <u>20</u>					
50% of total cover: <u>10</u>					
20% of total cover: <u>4</u>					
Plot size (radius, or length x width) <u>15 foot radius</u>					
% Cover of Wetland Bryophytes _____					
Total Cover of Bryophytes _____					
(Where applicable)					

Remarks: Exposed gravel abundant with sparse vegetation coverage.

SOIL

Sampling Point: 17

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	10YR 4/3							sandy/organics
5-14								sandy/gravel

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 :
<input type="checkbox"/> Histosol or Histel (A1)	<input type="checkbox"/> Alaska Color Change (TA4) ⁴
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Alaska Alpine Swales (TA5)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Alaska Redox With 2.5Y Hue
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Alaska Gleyed (A13)	³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present unless disturbed or problematic.
<input type="checkbox"/> Alaska Redox (A14)	⁴ Give details of color change in Remarks.
<input type="checkbox"/> Alaska Gleyed Pores (A15)	

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks: No indications of hydric soil observed at sample location.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
<u>Primary Indicators (any one indicator is sufficient)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-stained Leaves (B9)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Salt Deposits (C5)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Microtopographic Relief (D4)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes X No _____ Depth (inches): 10

Saturation Present? (includes capillary fringe) Yes X No _____ Depth (inches): 10

Wetland Hydrology Present? Yes X No _____

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

Remarks: Wetland hydrology observed at sample point.