WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 07-Aug-12			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T15_04			
	igator(s): CTS, EKJ	side, terrac	ce, hummocks etc.): Channel (abandoned)					
	relief (concave, convex, none): concave	% / 7.6 ° Elevation: 815						
Subre	gion : Interior Alaska Mountains	Lat.:	63.355088200					
	ap Unit Name:		00.000000200	NWI classification: R3USC				
	imatic/hydrologic conditions on the site typical for this tin	mo of vo	or? Ves	No ○	(If no, explain in Remarks.)			
		•	tly disturbed?		Iormal Circumstances" present? Yes No			
		Ū	problematic?		eded, explain any answers in Remarks.)			
		-						
SUM	MARY OF FINDINGS - Attach site map show		mpling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes ● No C		le.	the Com	wood Area			
	Hydric Soil Present? Yes ○ No ●			Is the Sampled Area within a Wetland? Yes ○ No ●				
	Wetland Hydrology Present? Yes No C				otidiid i			
Rem	arks: Bpv in abandoned creek channel, but use (browse	e, lots of	scat) by moose,	esp on frir	nges of channel w more willow			
VEG	ETATION - Use scientific names of plants. Li	st all sp	ecies in the	plot.				
		Absolut			Dominance Test worksheet:			
	ee Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)			
1.		0			Total Number of Dominant			
2.		0	_ 📙		Species Across All Strata: 4 (B)			
3.			_		Percent of dominant Species			
4.		0	-		That Are OBL, FACW, or FAC: 75.0% (A/B)			
5.		0	_		Prevalence Index worksheet:			
	Total Cover:		_		Total % Cover of: Multiply by:			
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species x 1 =			
1.	Alnus viridis	10	✓	FAC	FACW Species 0 x 2 = 0			
2.	Salix alaxensis	5	_	FAC	FAC Species 21.2 x 3 = 63.60			
3.	Vaccinium uliginosum	2	_	FAC	FACU Species 2.1 x 4 = 8.4			
4.	Vaccinium vitis-idaea			FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
5.	Empetrum nigrum			FAC	Column Totals: <u>23.3</u> (A) <u>72.00</u> (B)			
6.					Prevalence Index = B/A = 3.090			
7.		0	-					
8.		0	- H		Hydrophytic Vegetation Indicators: Dominance Test is > 50%			
9. 10.		0	- =		Prevalence Index is ≤ 3.0			
10.	Total Cover:				Morphological Adaptations ¹ (Provide supporting data in			
			3.62	Remarks or on a separate sheet)				
He	rb Stratum 50% of Total Cover:		_					
_	Chamanarian latifalium	3	✓	FAC	Problematic Hydrophytic Vegetation (Explain)			
_	Chamaenerion latifolium			FACU	Problematic Hydrophytic Vegetation (Explain) 1 Indicators of hydric soil and wetland hydrology must			
1.	Chamaenerion latifolium	2	✓		Problematic Hydrophytic Vegetation (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
1. 2.	Chamaenerion latifolium Chamaenerion angustifolium	2		FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
1. 2. 3.	Chamaenerion latifolium Chamaenerion angustifolium Cornus canadensis Calamagrostis canadensis	0.1 0.1		FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width)			
1. 2. 3. 4. 5.	Chamaenerion latifolium Chamaenerion angustifolium Cornus canadensis Calamagrostis canadensis	0.1 0.1 0		FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
1. 2. 3. 4. 5. 6. 7.	Chamaenerion latifolium Chamaenerion angustifolium Cornus canadensis Calamagrostis canadensis	0.1 0.1 0 0 0		FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes 1			
1. 2. 3. 4. 5. 6. 7. 8.	Chamaenerion latifolium Chamaenerion angustifolium Cornus canadensis Calamagrostis canadensis	0.1 0.1 0 0 0		FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes 1 (Where applicable)			
1. 2. 3. 4. 5. 6. 7. 8. 9.	Chamaenerion latifolium Chamaenerion angustifolium Cornus canadensis Calamagrostis canadensis	0.1 0.1 0 0 0 0 0		FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable) Bare Ground 80			
1. 2. 3. 4. 5. 6. 7. 8. 9.	Chamaenerion latifolium Chamaenerion angustifolium Cornus canadensis Calamagrostis canadensis	2 0.1 0.1 0 0 0 0 0		FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m			
1. 2. 3. 4. 5. 6. 7. 8. 9.	Chamaenerion latifolium Chamaenerion angustifolium Cornus canadensis Calamagrostis canadensis	2 0.11 0 0 0 0 0 0 0 0 0		FACU FACU FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m			

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SOIL Sampling Point: SW12_T15_04

·	on: (Describe to the depth needed to doc Matrix			cument the indicator or confirm the absence of indicators) Redox Features							
Depth (inches)	Color (mois	r)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
0-12	2.5Y	5/2	65	Color (moist)		Турс	LUC	Coarse Sand	rounded-semirounded course sand to boul		
									s		
1				21				I.M. Mari	. —		
Type: C=Cond	centration. D=D	epletion. F		d Matrix ² Locatio				innel. M=Matrix			
Hydric Soil In	dicators:			Indicators for Problematic Hydric Soils:							
Histosol or	Histosol or Histel (A1)			Alaska Color C				Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	Histic Epipedon (A2)			Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen S	Sulfide (A4)			☐ Alaska Redox With 2.5Y Hue							
Thick Dark	Surface (A12)			3 One indicator o	f buduanbud	ia vaaatatia		nam, indicator of watland b	nudvolo av		
Alaska Gley	/ed (A13)			and an appropria				nary indicator of wetland hesent	iyarology,		
Alaska Red	` '					•	•				
Alaska Gley	ed Pores (A15)			⁴ Give details of o	color change	e in Kemari	KS .				
Restrictive Layer	r (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inche	es):										
HYDROLOG	GY										
Wetland Hydro		rs:						Secondary Indi	cators (two or more are required)		
Primary Indicat	ors (any one is	sufficient)						Water Stai	ned Leaves (B9)		
Surface Wa	ater (A1)			Inundation	visible on A	erial Image	ry (B7)	✓ Drainage I	Patterns (B10)		
High Water Table (A2)				Sparsely Ve	getated Cor	cave Surfa	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
☐ Saturation	(A3)			Marl Deposi	ts (B15)			Presence of	of Reduced Iron (C4)		
☐ Water Mar	ks (B1)			Hydrogen S	ulfide Odor	(C1)		☐ Salt Depos	sits (C5)		
Sediment [Deposits (B2)			☐ Dry-Season	Water Table	e (C2)			Stressed Plants (D1)		
Drift Depos	sits (B3)			Other (Expla	ain in Rema	rks)		✓ Geomorph	ic Position (D2)		
Algal Mat o	or Crust (B4)							Shallow Ad	quitard (D3)		
Iron Depos	sits (B5)							Microtopo	graphic Relief (D4)		
Surface So	oil Cracks (B6)							FAC-neutra	al Test (D5)		
Field Observa	tions:										
Surface Water	Present?	Yes O		Depth (inch	es):						
Water Table Pr	resent?	Yes 🔾	No 💿	Depth (inch	es):		Wetla	nd Hydrology Presen	it? Yes 🏵 No 🔾		
Saturation Pres		Yes 🔾	No •	Depth (inch	es).						
(includes capill				· ` `			- 11 - 1- 1 -				
Describe Record	ied Data (strear	n gauge, n	nonitor well,	, aerial photos, pre	evious inspe	ction) ir ava	aliable:				
Remarks:											
channel, current	tly dry. Bed/ban	k morphol	ogy.								
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