WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough	n/City:	Matanusk	a-Susitna Borough Sampling Date:03-Aug-12
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW12_T37_09
	gator(s): CTS, EKJ		Landfo	orm (hill	side, terrac	e, hummocks etc.): Flat
	elief (concave, convex, none): flat		_			° Elevation: 274
	ion : Southcentral Alaska	l at ·	— · : 62.818			Long.: -149.562759966 Datum: WGS84
_		Lat	02.010	429900	50	•
	p Unit Name:				No ○	NWI classification: Upland
Are V Are V	natic/hydrologic conditions on the site typical for this egetation , Soil , or Hydrology egetation , Soil , or Hydrology .	significal naturally owing sa	ntly distur	bed? atic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No deded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No No deded, explain any answers in Remarks.)
	Hydrophytic Vegetation Present? Yes O No			Is	the Sam	pled Area
	Hydric Soil Present? Yes No				thin a W	-
	Wetland Hydrology Present? Yes O No	ledow		***	tilli a vv	olulia.
	arks: Riverine Fbop, boderline to closed TATION -Use scientific names of plants.	List all s	pecies i	n the	plot.	Dominance Test worksheet:
T	Shorton	Absolu % Cov		ninant cies?	Indicator Status	Number of Dominant Species
	Stratum Populus balsamifera	<u>98 COV</u>		✓	FACU	That are OBL, FACW, or FAC: 2 (A)
2.			_		TACO	Total Number of Dominant
3.			_			Species Across All Strata:6 (B)
4.			_			Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
5.						
J.	Total Cov		_			Prevalence Index worksheet:
Can	ling/Shrub Stratum 50% of Total Cover:		— 0% of Tota	d Cover	12	Total % Cover of: Multiply by:
Зар	mig/siliub stratum 30% of Total cover.		070 01 1000	_	12	OBL Species
1.	Alnus viridis ssp. sinuata				FAC	FACW Species 0.1 x 2 = 0.200
	Viburnum edule	4	_	V	FACU	FACUS pecies 85.1 x 3 = 255.3
	Oplopanax horridus		_	✓	FACU	FACU Species 160.2 x 4 = 640.8
	Rosa acicularis	1			FACU	UPL Species <u>0</u> x 5 = <u>0</u>
5.)			Column Totals: <u>245.4</u> (A) <u>896.3</u> (B)
6.			<u> </u>			Prevalence Index = B/A =3.652_
7.)			
8.)			Hydrophytic Vegetation Indicators:
9.			_			☐ Dominance Test is > 50%
10.			_			☐ Prevalence Index is ≤3.0
Her	Total Cov b Stratum 50% of Total Cover:		 20% of Tot		30.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Streptopus amplexifolius		_	V	FACU	Problematic Hydrophytic Vegetation (Explain)
2.	Cornus canadensis	5	_		FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Orthilia secunda		_		FACU	be present, unless disturbed or problematic.
4.	Galium aparine		_		FACU	Plot size (radius, or length x width)
5.	Actaea rubra		_	Y	FAC	% Cover of Wetland Bryophytes 0
6.	Aconitum delphinifolium		_		FACU	(Where applicable)
7.	Mertensia paniculata		_		FACW	% Bare Ground
8.	Equisetum pratense	$ \frac{0}{2}$	_		FACW	Total Cover of Bryophytes 0
9.	Calamagrostis canadensis	$- \frac{2}{0}$	_		FACU	
10.	Pyrola asarifolia Total Cov.		_		TACU	Hydrophytic Vegetation
	50% of Total Cover:			l Cover:	6.88	Present? Yes No No
Rem	arks: Bare ground is leaf covered, does it still cour			ii Cover:	6.88	rieseit: ies C itu C

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SOIL Sampling Point: SW12_T37_09

(inches)	Color (m	niet)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	Color (III)	/ISC/	100	Color (Illoist)	-70	Туре	LUC	Fibric Organics	
2-3	2.5Y	3/2	90					Sand	10% roots
3-4			100					Fibric Organics	
4-5	2.5Y	4/2	90					Sand	10% roots
	2.5Y	4/2	85					Sandy Loam	15% roots, thin organic layers
9-20	2.5Y	4/2	100					Sand	
9-20	2.51							Sand	few roots
Type: C=Conce	entration. D	 =Depletior	n. RM=Reduce	d Matrix ² Locatio	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
ydric Soil Ind	licators:			Indicators for P	roblematic	Hvdric Sc	oils: ³		
Histosol or F				Alaska Color C		4		Alaska Gleyed Withou	ıt Hue 5Y or Redder
Histic Epiped				Alaska Alpine	swales (TA5)		Underlying Layer	
Hydrogen Su	ulfide (A4)			Alaska Redox	With 2.5Y H	ue		Other (Explain in Rer	marks)
Thick Dark S	Surface (A12	.)		30	e la				ad bodoslaso.
Alaska Gleye				and an appropria				nary indicator of wetlar esent	na nyarology,
☐ Alaska Redo ☐ Alaska Redo	. ,	->		4 Give details of o	color change	in Remark	.s		
☐ Alaska Gleye	•	•							
estrictive Layer	(if present)								0 0
Type:								Hydric Soil Prese	ent? Yes O No 💿
Denth (inches	۷).								
Depth (inchesemarks: hydric soil indi	<u>, </u>								
emarks:	<u>, </u>								
emarks:	icators								
emarks: hydric soil indi	icators	itors:						_Secondary :	Indicators (two or more are required)
emarks: hydric soil indi YDROLOG etland Hydro imary Indicato	icators SY blogy Indicors (any one		ıt)						Indicators (two or more are required) Stained Leaves (B9)
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