Project/Site: Rich Harris - 4700 Glacier Hwy Site Borough	n/City: CBJ Sampling Date: 7/21/2015
Applicant/Owner Rich Harris	Sampling Point:
Investigator(s): Koren Bosworth - BBC	laciomarine deposits
Local relief (concave, convex, none):	Slope (%): 2 %
Subregion: SE Alaska Lat: Lor	ng: Datum: NAD83
	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	Nox (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "I	Normal Circumstances" present? YesNo/_
Are Vegetation, Soil, or Hydrology naturally problematic? (If r	
SUMMARY OF FINDINGS – Attach site map showing sampling point loca	ations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Is the Sample	
within a Wetl	and? Yes No
Wetland Hydrology Present? Yes No. Remarks: Higher than average rainfall for the month. Heavy rains in the two days before the control of the month.	ore the survey. Large road cut below
VEGETATION – Use scientific names of plants. List all species in the plo	t.
Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum % Cover Species? Status	Number of Dominant Species
1. Pisi - Picea sitchensis 15 V FU	That Are OBL, FACW, or FAC: (A)
2. Tahe Tauga heterophylla 20 V F	Total Number of Dominant
3	Species Across All Strata: (B)
4	Descent of Descinant Cossiss 0.000
50% of total cover: 16.5 20% of total cover: 7	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum	Prevalence Index worksheet:
1. Vaov - Vaccinium ovalitalium 40% / F	Total % Cover of: Multiply by:
2. Mefe - Menzisia feruginea 2096 / FU	OBL species x1=
3. Oplopanax horridum - Opto 5% FU	FACW species x 2 = FAC species x 3 = 186
4	FACU species 80 x4= 320
5	UPL species x5 = Column Totals: (A) 50 6 (B)
Total Cover: 65%	Prevalence Index = B/A = 3.02
50% of total cover: 32.5 20% of total cover: 3	Hydrophytic Vegetation Indicators:
Herb Stratum	The second section is a second
1. Gydr - Gymnocorpium dryopteris 30% / FU	Dominance Test is >50%
2. Ordi - Orgoplevis di latata 16% / FU	Prevalence Index is ≤3.0
3. Stam - Streptopus amplexitatius 290 F	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5.	Problematic Hydrophytic Vegetation ¹ (Explain)
6.	¹ Indicators of hydric soil and wetland hydrology must
8.	be present unless disturbed or problematic.
9	
10	
Total Cover: 4290	100-U (W 697
50% of total cover: 2 20% of total cover: 8.4	Hydrophytic
Plot size (radius, or length x width) 5 diam % Bare Ground	Vegetation
% Cover of Wetland Bryophytes Total Cover of Bryophytes (Where applicable)	Present? YesNo
Remarks:	(A)

nvestigator(s): Koren Bosworth - BBC	Project/Site: Rich Harris - 4700 Glacier Hwy Site Borough	n/City: CBJ Sampling Date: 7/21/2015
Sope (%): 2-0 Lubregion: SE Alaska Lat: Long: Datum: NAD33	Applicant/Owner Rich Harris	Sampling Point:
Lat: Long: Datum: NAD83 Individual Schild Cover of Bysony to Sapling Shrub Stratum 1. Cover of Westand Individual Cover of Bysony to Sapling Shrub Stratum 1. Cover of Mental Cover of Bysony to Sapling Shrub Stratum 1. Cover of Sapling Shrub Stratum 1. Cove	Investigator(s): Koren Bosworth - BBC	laciomarine deposits
Lat: Long: Datum: NAD83 Individual Schild Cover of Bysony to Sapling Shrub Stratum 1. Cover of Westand Individual Cover of Bysony to Sapling Shrub Stratum 1. Cover of Mental Cover of Bysony to Sapling Shrub Stratum 1. Cover of Sapling Shrub Stratum 1. Cove	Local relief (concave, convex, none):	Slope (%): 25/0
we climate / hydrologic conditions on the site typical for this time of year? Yes	Subregion: SE Alaska Lat: Lo	ng: Datum: NAD83
ver climatic / hydrologic conditions on the site typical for this time of year? Yes		
ve Vegetation	Are climatic / hydrologic conditions on the site typical for this time of year? Yes	Nox (If no, explain in Remarks.)
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No within a Wetland? Yes No Within a Wetland Prophytic Vegetation in Indicators: Only on the Adam of	Are Vegetation, Soil, or Hydrology/ significantly disturbed? Are "	Normal Circumstances" present? YesNo/
Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland Bryophytic Vegetation In the two days before the survey. Absolute Daminant Indicator % Cover Species? Satus For Fore Stratum 1. Post Present of Dominant Species That Are OBL FACW, or FAC. Total Number of Dominant Species That Are OBL FACW, or FAC. Total Number of Dominant Species That Are OBL FACW, or FAC. Total Number of Dominant Species That Are OBL FACW, or FAC. Total Species That Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are Yes No Wetland Hydrology Present? Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover: Septing/Shrub Stratum 1. In Are OBL FACW, or FAC. Total Cover:	Are Vegetation, Soil, or Hydrology naturally problematic? (If r	needed, explain any answers in Remarks.)
Supplied Area Within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Bryophytic Yes No Wetland Bryophytes Total Cover: 24 Yes Yes No Wetland Bryophytes Total Cover: 24 Yes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No	SUMMARY OF FINDINGS – Attach site map showing sampling point loca	ations, transects, important features, etc.
Supplied Area Within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Bryophytic Yes No Wetland Bryophytes Total Cover: 24 Yes Yes No Wetland Bryophytes Total Cover: 24 Yes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No Wetland Bryophytes Yes No	Lludraphytia Vagatation Procent?	
Wetland Hydrology Present? Remarks: Higher than average rainfall for the month. Heavy rains in the two days before the survey. ### Absolute Deminant Indicator Absolute Deminant Indicator Absolute Deminant Species	Is the Sample	
Remarks: Higher than average rainfall for the month. Heavy rains in the two days before the survey. ### Proof of the control	within a Wetl	and? Yes No
Absolute National Indicator Species? Status 1. Process and the properties of total cover. Species? Status 1. Process and the properties of total cover. Species? Status 1. Process and the properties of total cover. Species Across All Strata: Total Cover. Species Across All Strata: Total Cover. Species Across All Strata: 1. Vacy - Vaccinative publications and species of total cover. Species Across All Strata: 1. Vacy - Vaccinative publications and species of total cover. Species Across All Strata: 2. Meeter - Manage for a species of total cover. Species Across All Strata: 1. Vacy - Vaccinative publications and species of total cover. Species Across All Strata: 2. Meeter - Manage for a species of total cover.	Remarks: Higher than average rainfall for the month. Heavy rains in the two days bef	ore the survey. Large road cut below
Tree Stratum Species Status Sta	VEGETATION – Use scientific names of plants. List all species in the plo	t.
1. Provided Statements 15		Dominance Test worksheet:
That Are OBL, FACW, or FAC: (A) Total Cover: 35 % of total cover: 4 Sapling/Shrub Stratum 1. YaoV - Vaccinium Dial (A)		Number of Dominant Species
A. Total Cover: 35 % of total cover: 16 5 20% of total cover: 7 Sapling/Shrub Stratum 1. Vov Vacanum ovalifolium 40% Frequency 20% VEV Sapling/Shrub Stratum 1. Vov Vacanum ovalifolium 40% VEV Sapling/Shrub Stratum 1. Vov Vacanum ovalifolium 40% VEV Sapling/Shrub Stratum 1. Sapecies Across All Strata: (B) 2. Mefe Menzifolia ferucinea 20% VEV Sapling Sapl		
Species Across All Strata: (B) Total Cover: 35 % of total cover: 7 Sapling/Shrub Stratum 1. Voo V VocCinium Dual folium 40% Frequence Index worksheet: Total Cover of Multiply by: OBL species X 1 = Total % Cover of: Multiply by: OBL species X 2 = FAC species X 3 = 1	2. Ishe Isuga Neterophylly 20 V P	Total Number of Dominant
Total Cover: 35 % of total cover: 16.5 20% of total cover: 7 Sapling/Shrub Stratum 1. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4.	
That Are OBL_FACW, or FAC: A/B Sapling/Shrub Stratum 1. 1. 1. 1. 1. 1. 1. 1		Percent of Dominant Species
1		
2. Merfe Menzista ferudinea 2096 FU 3. Optoparex horridum - Opto 576 FU 4. Secies 12		Prevalence Index worksheet:
3. Optopanax horridum - Opto 576 FU 4.	1. Vaov - Vaccinium Ovalitalium 40% V	
4		
5.	3. Opippanax normalin - opito 598 Fo	FAC species 62 x3 = 186
6	5.	
Total Cover: 65% 50% of total cover: 32.5 20% of total cover: 3 2.5 20% of total cover: 4 2.2		· · · · · · · · · · · · · · · · · · ·
Herb Stratum 1. Gy dr — Gym no or promotypoptens 3.00 / FV 2. Drd — Orypopens and language 10% / FV 4. Stand — Orypopens and language 10% / FV 6. Problematic Hydrophytic Vegetation¹ (Explain) 7. Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. 10. Total Cover: 4200 / FV Flot size (radius, or length x width) 15 diam. % Bare Ground (Where applicable) 15. Say of total cover: 4200 / FV Hydrophytic Vegetation Indicators: Dominance Test is >50% 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. Hydrophytic Vegetation Present? Yes No (Where applicable)		Provolence Index = P/A = 3 00
Dominance Test is >50%	50% of total cover: 32.5 20% of total cover: 1.3	
Prevalence Index is ≤3.0 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. Total Cover: 4220 50% of total cover: 20% of total cover: 3.4 Plot size (radius, or length x width) 15 diam. % Bare Ground % Cover of Wetland Bryophytes Total Cover of Bryophytes Present? Yes No (Where applicable)		Land to the second of the seco
Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) — 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. 9		Language Control of Co
4		
6. 7. 8. 9. 10. Total Cover: 4200 50% of total cover: 21 20% of total cover: 3.4 Plot size (radius, or length x width) 15 olary % Bare Ground % Cover of Wetland Bryophytes Total Cover of Bryophytes Total Cover of Bryophytes Yes No (Where applicable)	4	
7		Problematic Hydrophytic Vegetation ¹ (Explain)
8. 9. 10. Total Cover: 4200 50% of total cover: 21 20% of total cover: 7. Plot size (radius, or length x width) 50 diam % Bare Ground Wetland Bryophytes Total Cover of Bryophytes Yes No (Where applicable)		1 Indicators of hydric soil and watland hydrology must
9		
Total Cover: 4200 50% of total cover: 21 20% of total cover: 9,4 Plot size (radius, or length x width) 5 diam % Bare Ground Vegetation % Cover of Wetland Bryophytes Total Cover of Bryophytes Present? Yes No (Where applicable)		
Total Cover: 4200 50% of total cover: 20% of total cover: 9.4 Plot size (radius, or length x width) 50 diam 8 Bare Ground Wegetation Present? Yes No (Where applicable)		Pupe Per President - Yes Per March 1972 Visited Per President - Yes Per
50% of total cover: 2 20% of total cover: 9, 4 Plot size (radius, or length x width) 5 0 a m 8 Bare Ground Vegetation % Cover of Wetland Bryophytes Total Cover of Bryophytes Present? Yes No (Where applicable)		tracie Present? You No Depr
Plot size (radius, or length x width) 5 diam % Bare Ground Vegetation % Cover of Wetland Bryophytes Total Cover of Bryophytes Present? Yes No (Where applicable)	50% of total cover: 20% of total cover: 9.4	Hydronhytic
% Cover of Wetland Bryophytes Total Cover of Bryophytes Present? Yes No (Where applicable)		Vegetation /
Remarks:		

Project/Site: Rich Harris - 4700 Glacier Hwy S	ite	Borough	/City: CBJ	Sampling Date	7/21/20)15
Applicant/Owner Rich Harris				Sampling	Point: 2	
Investigator(s): Koren Bosworth - BBC Lar	ndform: Hillside/ toe	of slope - gl	aciomarine de	posits		
Local relief (concave, convex, none):					Slope (%):	0%
Subregion: SE Alaska	Lat:	Lon	ıg:		Datum: NAD	83
Soil Map Unit Name:			NWI	classification: _	PF04	
Are climatic / hydrologic conditions on the site typica						
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "N	Normal Circumstar	nces" present?	YesN	0
Are Vegetation, Soil, or Hydrology	naturally problematic	? (If n	eeded, explain an	y answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach site m	nap showing sampli	ng point loca	tions, transect	s, important	features, etc.	
Hydrophytic Vegetation Present? Yes	No		John & Decute Plant	and according		
Hydric Soil Present? (Yes)	No	Is the Sample		Yes	terousalbu	
Wetland Hydrology Present? (Yes)	No	within a Wetla		Yes	No	
Remarks: Higher than average rainfall for the mo	onth. Heavy rains in the	e two days befo	ore the survey.		(SA) role qu (BR) obblice o	gel ebety senstari
VEGETATION – Use scientific names of p	plants. List all speci	es in the plot	-		TALESENSE 1	
Trac Stratum	Absolute Domir		Dominance Tes	st worksheet:		
Tree Stratum 1. Tsle	% Cover Spec	les? Status	Number of Dom		Zana	
2			That Are OBL, F	FACW, or FAC:		(A)
3.			Total Number of	f Dominant	4	
4.			Species Across	All Strata:		(B)
Total	Cover: 30		Percent of Domi	inant Species	75%	
Annual control of the second control of the	20% of total of	cover:	That Are OBL, F	THE RESIDENCE OF THE PARTY OF T	15 10	(A/B)
Sapling/Shrub Stratum	10	/ -	Prevalence Ind	ex worksneet:		
1. Vaov 2. Mete		FU		over of:		
3. Take (sapling)	2	E	OBL species FACW species	**************************************	x 1 =	Resignations
4. Opho - Oplopanak horridu	m 2	FU	FAC species		x 3 =	
5	parameter and the second secon		FACU species UPL species		x 4 = x 5 =	- brot
6.	Amendment Amendm		Column Totals:	. Les el retection	(A)	(B)
	Cover: 18	ristaine re, era	Provolono	a Inday - P/A -		
50% of total cover:	20% of total	cover: 3.6	Hydrophytic Ve		ators:	-
Herb Stratum		1	1	e Test is >50%	(24) 40	
1. Lyam - Lysichiton americ	anum 30 V		Land and the state of the state			
2. Gy A :	10 V	FU	anaged and	e Index is ≤3.0	nt Deposits (Bix)	
4.	10				of (Provide suppose separate sheet)	
5.			Problemati			
6					Fe Cit will be	
7			¹ Indicators of hy be present unles			must
8.			So procent amos	30 010101000 01 1	problematio.	
9			099			
10	Cover: 60		10,40			
	30 20% of total of	cover: 12	1090011			
Plot size (radius, or length x width) 15 diam			Hydrophytic Vegetation		/ Harris Maria	
% Cover of Wetland Bryophytes T (Where applicable)			Present?	Yes	No	- 1
			1			
Remarks:						

SOIL	noine	84841A - 381					Sampling Point: _	
Profile Description: (Describe	to the depth			dicator	or confirm	n the absence of i	ndicators.)	
Depth Matrix (inches) Color (moist)	%	Color (moist)	x Features %	Type ¹	Loc ²	Texture	Remarks	ALCON BICKLE
0-8 104R 2/	/	COIC! (IIIOIO!)		1,400		OM	Kemarks	+
2/ 10:			-			1111	- Ja	1
8-12+ 2.544/			MA retirestasjanstasjanstasjanstasjanstasjans			sittaan	w/sand	Sal.
Seekal distribution of the Contract of the Con								ernekt finkt i
			and an analysis and a second an					
					.	M150	bet iniue	nofizh
		nonent ennite						
				hardrage trade construction of the constructio		Separate de como como como como como como como com		ha utragen and complementation are considered to the constraint of
Type: C=Concentration, D=Dep	oletion, RM=Re	educed Matrix. C	S=Covered	or Coated	d Sand G	rains. ² Location	PL=Pore Lining, M	=Matrix
Hydric Soil Indicators:	personal construction of the second construction and the second construction of the second constructio	Indicators for I						
Histosol or Histel (A1)		Alaska Colo	- ,			Alaska Gle	eyed Without Hue 5Y	or Redder
√ Histic Epipedon (A2)		Alaska Alpi				Underlyi		
Hydrogen Sulfide (A4)		Alaska Red	lox With 2.5	Y Hue		Other (Exp	lain in Remarks)	
Thick Dark Surface (A12)		30no indicator a	المراجع المراجع المراجع المراجع	iawanata	tion one			
Alaska Gleyed (A13) Alaska Redox (A14)		and an appro					f wetland hydrology,	
Alaska Redox (A14)		⁴ Give details of				t be present.		
Restrictive Laver (if present):		4						
Type: glacio ma	rine Se	diment					,	
Depth (inches):	3	Spacer veno				Hydric Soil Pres	ent? Yes √	No
Remarks:		70 le samuel						
to optotic web arred has lifted the	:4454		U- 41-1- 1-	roo latel t			d to 280°	
Isostatic rebound has lifted thi redox features.	s site out of the	ne influence of t	ine tides, le	eaving a	relatively	impermeable silt	layer that has som	e remenant
1/2201001/				and referenced accommodation, was defined as defi				
YDROLOGY			***************************************					
Wetland Hydrology Indicators:		eniosop "PG."					ors (2 or more requir	red)
Primary Indicators (any one indic		***************************************				Water-staine	d Leaves (B9)	
Surface Water (A1)	Management .	Inundation Visib				Drainage Pa		
High Water Table (A2)	-	Sparsely Vegeta		e Surface	e (B8)	Oxidized Rhi:	zospheres along Livi	ing Roots (C3
Saturation (A3)	Fr 1 120	Marl Deposits (E	315)			Presence of	Reduced Iron (C4)	
Water Marks (B1)		Hydrogen Sulfid	e Odor (C1))		Salt Deposits	(C5)	
Sediment Deposits (B2)	Section 1990	Dry-Season Wat	ter Table (C	2)		Stunted or St	ressed Plants (D1)	
Drift Deposits (B3)	propagation of	Other (Explain in	n Remarks)			Geomorphic	Position (D2)	
Algal Mat or Crust (B4)						Shallow Aqu	itard (D3)	
Iron Deposits (B5)						Microtopogra	phic Relief (D4)	
Surface Soil Cracks (B6)						FAC-Neutral	Test (D5)	
Field Observations:		/						
	/		nches):	7				
Vater Table Present?			inches):	T				
Saturation Present? includes capillary fringe)	Yes No	Depth (i	inches):	0_	Wetlai	nd Hydrology Pres	sent? Yes	No
Describe Recorded Data (stream	gauge, monito	oring well, aerial i	photos, prev	vious insp	ections),	if available:		to alternatives and describe the second seco
	- epY	Threadnil		cenydge	vo 8 to 16			
Remarks:								A CONTRACTOR OF THE CONTRACTOR

Project/Site: Rich Harris - 4700 Glacier Hwy Site	and the second state of th		borougi	/City: CBJ Sampling Date: 7/21	-0
Applicant/Owner Rich Harris				Sampling Point:	3
nvestigator(s): Koren Bosworth - BBC Landfor	rm: Hillsic	de/ toe of	slope - g	laciomarine deposits	
ocal relief (concave, convex, none):				Slope (%):	109/0
Subregion: SE Alaska Lat:			Loi	ng: Datum: N	AD83
Soil Map Unit Name:					
Are climatic / hydrologic conditions on the site typical for					
Are Vegetation, Soil, or Hydrology sig					No V
Are Vegetation, Soil, or Hydrology n					many annual many
tre vegetation, soil, or rivationary in	atarany probi	ciriatio:	(11.1		
SUMMARY OF FINDINGS – Attach site map	showing s	ampling p	ooint loca	itions, transects, important features, e	etc.
				6	
Hydrophytic Vegetation Present? Yes	No	pelso.	he Cample	A Anna	
Hydric Soil Present? Yes	No		he Sample		1
Wetland Hydrology Present? Yes	No	Wit	nin a weti	and? Yes No	
Remarks: Higher than average rainfall for the month	. Heavy rain	s in the tw	o days bef	ore the survey.	
La Supposition and Park Suppos	+				
/EGETATION - Use scientific names of plan	ts. List all	species i	n the plo	t.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum	Account of the second second second second second second	Species?	And the second second second	Number of Dominant Species	
1. <u>Tske</u>			E	The second secon	(A)
2.		hweep desired and a series of the series of			7800 0 0 0 0 0 0
3.				Total Number of Dominant Species Across All Strata:	(B)
4.					
50% of total cover:	er: <u>50</u>	of total cove	per .	Percent of Dominant Species That Are OBL FACW or FAC:	(A/B)
Sapling/Shrub Stratum	20%	or total cove	Part 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	That Are OBL, FACW, or FAC: 2	(A/D)
1. Oplo pangx horridus-Opho	40		FU		estinat ro
2. V90	9	1/2	F	Total % Cover of: Multiply OBL species x 1 =	/ by:
3.		Surrey Constitution of the	-	FACW species x 2 =	
4.				FAC species	5
5.			Management	FACU species 105 x 4 = 47	60
6. (OCI) resume 1 has item and the			March Control of the	Column Totals: 170 (A)	15 (B)
Total Cove			00	Prevalence Index = B/A = 3,6	
50% of total cover: 2	£5 20% c	of total cove	r: <u>/00</u>	Hydrophytic Vegetation Indicators:	
Herb Stratum	7	/	F/18	Dominance Test is >50%	
1. Ordi			FU	1173 e	
2. Aydı	50		FU	Prevalence Index is ≤3.0	
3. Titt - Tierella Tritoliate 4 Cook Cooks Ospienita	1,5	REAL CONTRACTOR OF THE PARTY OF	-	Morphological Adaptations¹ (Provide su	pporting
4. (DO) COPIE (13) PENTO	119-2		+	data in Remarks or on a separate sh	
6.	Necessary in the contract of t	Authorities and an experience of the control of the		Problematic Hydrophytic Vegetation ¹ (E	xplain)
7.		Natival and desirations of the section of		¹ Indicators of hydric soil and wetland hydrole	ogy must
			probability of the control of the co	be present unless disturbed or problematic.	
8.					
8			_ (881654)	9995J V De 2017 - 17150001	
9		****			
9	er: 71		(alenom)	Cost sev Ymas	
9	er: 71 15 20% c			Hydrophytic	
9	er: 71 5 20% c	e Ground _		Hydrophytic Vegetation	/
9	er: 71 5 20% c	e Ground _			_

			onfirm the absence of indicators.)	
Depth Matrix Color (moist)	% Color (moist)	% Type ¹ L	oc ² Texture Remarks	
O // FUD 1 +	- /n	70 TYPE L	On Texture Nemarks	
0-4 598 25	0/1/2	Aconomic designation of the second se	DNI UNSCI	- 1
7-12 7,54R 2,5	13		Jam U/ DM U	hosel
2-14+ 7.54825	12	9,3	loam tracks u	nsal
<u></u>			Soil or Materiage sound order of the control of the	no le
	refrancii stagneri enote	r of trace prilament	Converte can also de can altoure	70.25
	epletion, RM=Reduced Matrix, C			latrix.
ydric Soil Indicators:		Problematic Hydric Soi		
Histosol or Histel (A1)		or Change (TA4) ⁴	Alaska Gleyed Without Hue 5Y or	Redder
_ Histic Epipedon (A2)		ine Swales (TA5)	Underlying Layer	
_ Hydrogen Sulfide (A4)	Alaşka Rec	dox With 2.5Y Hue	Other (Explain in Remarks)	
_ Thick Dark Surface (A12)	3	all spector in the plo	 Use scientific named of plants. List i 	
_ Alaska Gleyed (A13)			n, one primary indicator of wetland hydrology,	
_ Alaska Redox (A14)		priate landscape positio		
_ Alaska Gleyed Pores (A15)		color change in Remark	S.	
estrictive Layer (if present):				
			The state of the s	
Туре:	and the Control of th			
Depth (inches):		the tides, leaving a rela	Hydric Soil Present? Yes N	(
Depth (inches):		the tides, leaving a rela	19/00/00/19/00/19/00/19/00/19/00/19/00/19/00/19/00/19/00/19/	(
Depth (inches): Remarks: Sostatic rebound has lifted the dox features.	nis site out of the influence of	the tides, leaving a rela	atively impermeable silt layer that has some r	emenan
Depth (inches): emarks: costatic rebound has lifted the dox features. /DROLOGY /etland Hydrology Indicators	nis site out of the influence of	the tides, leaving a rela	Secondary Indicators (2 or more required)	emenan
Depth (inches): emarks: costatic rebound has lifted the dox features. /DROLOGY /etland Hydrology Indicators	nis site out of the influence of	the tides, leaving a rela	atively impermeable silt layer that has some r	emenan
Depth (inches):emarks: sostatic rebound has lifted the dox features. CDROLOGY Vetland Hydrology Indicators	nis site out of the influence of the inf	the tides, leaving a rela	Secondary Indicators (2 or more required) Water-stained Leaves (B9)	emenan
Depth (inches): emarks: costatic rebound has lifted the dox features. /DROLOGY /etland Hydrology Indicators rimary Indicators (any one indicators)	nis site out of the influence of the inf		Secondary Indicators (2 or more required Water-stained Leaves (B9) Drainage Patterns (B10)	emenan
Depth (inches):emarks: costatic rebound has lifted the dox features. /DROLOGY /etland Hydrology Indicators rimary Indicators (any one ind Surface Water (A1)	nis site out of the influence of the inf	ele on Aerial Imagery (B7 ated Concave Surface (B	Secondary Indicators (2 or more required Water-stained Leaves (B9) Drainage Patterns (B10)	emenan
Depth (inches):emarks: costatic rebound has lifted the dox features. //DROLOGY //etland Hydrology Indicators rimary Indicators (any one ind Surface Water (A1) High Water Table (A2)	s: icator is sufficient) Inundation Visib Sparsely Vegeta Marl Deposits (B	ele on Aerial Imagery (B7 ated Concave Surface (B B15)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living	emenan
Depth (inches):emarks: costatic rebound has lifted the dox features. DROLOGY Vetland Hydrology Indicators rimary Indicators (any one indexide and the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	s: icator is sufficient) Inundation Visib Sparsely Vegeta Marl Deposits (I	ele on Aerial Imagery (B7 ated Concave Surface (B B15) de Odor (C1)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Salt Deposits (C5)	emenan
Depth (inches):emarks: costatic rebound has lifted the dox features. /DROLOGY /etland Hydrology Indicators rimary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	s: icator is sufficient) Inundation Visib Sparsely Vegeta Marl Deposits (I Hydrogen Sulfid	ole on Aerial Imagery (B7 ated Concave Surface (B B15) de Odor (C1) tter Table (C2)	Secondary Indicators (2 or more required Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1)	emenan
Depth (inches):emarks: costatic rebound has lifted the dox features. DROLOGY Vetland Hydrology Indicators (inmary Indicators (any one indicators (any one indicators (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	s: icator is sufficient) Inundation Visib Sparsely Vegeta Marl Deposits (I	ole on Aerial Imagery (B7 ated Concave Surface (B B15) de Odor (C1) tter Table (C2)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1) Geomorphic Position (D2)	emenan
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Depth (inches):emarks: costatic rebound has lifted the dox features. /DROLOGY /etland Hydrology Indicators rimary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	s: icator is sufficient) Inundation Visib Sparsely Vegeta Marl Deposits (I Hydrogen Sulfid	ole on Aerial Imagery (B7 ated Concave Surface (B B15) de Odor (C1) tter Table (C2)	Secondary Indicators (2 or more required Water-stained Leaves (B9) Drainage Patterns (B10) S8) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)	emenan
Depth (inches): emarks: costatic rebound has lifted the dox features. /DROLOGY /etland Hydrology Indicators rimary Indicators (any one independent of the company of th	s: icator is sufficient) Inundation Visib Sparsely Vegeta Marl Deposits (I Hydrogen Sulfid	ole on Aerial Imagery (B7 ated Concave Surface (B B15) de Odor (C1) tter Table (C2)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)	emenan
Depth (inches): emarks: costatic rebound has lifted the dox features. POROLOGY Vetland Hydrology Indicators rimary Indicators (any one indexide and surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) ield Observations:	icator is sufficient) Inundation Visib Sparsely Vegeta Marl Deposits (I Hydrogen Sulfid Dry-Season Wa Other (Explain i	ele on Aerial Imagery (B7 ated Concave Surface (B B15) de Odor (C1) der Table (C2) n Remarks)	Secondary Indicators (2 or more required Water-stained Leaves (B9) Drainage Patterns (B10) S8) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)	emenan
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Depth (inches): demarks: sostatic rebound has lifted the dox features. FOROLOGY Vetland Hydrology Indicators rimary Indicators (any one indexided the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) ield Observations: surface Water Present? Vater Table Present?	icator is sufficient) Inundation Visib Sparsely Vegeta Marl Deposits (I Hydrogen Sulfid Dry-Season Wa Other (Explain i	ale on Aerial Imagery (B7 ated Concave Surface (B B15) de Odor (C1) der Table (C2) n Remarks)	Secondary Indicators (2 or more required Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living 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)	Roots (C
Depth (inches): emarks: costatic rebound has lifted the dox features. //DROLOGY //etland Hydrology Indicators rimary Indicators (any one independent of the common of the cost of the co	icator is sufficient) Inundation Visib Sparsely Vegeta Marl Deposits (I Hydrogen Sulfid Dry-Season Wa Other (Explain i	ole on Aerial Imagery (B7 ated Concave Surface (B815) de Odor (C1) tter Table (C2) n Remarks) inches):	Secondary Indicators (2 or more required Water-stained Leaves (B9) Drainage Patterns (B10) S8) Oxidized Rhizospheres along Living 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) Wetland Hydrology Present? Yes	emenan
Depth (inches): emarks: costatic rebound has lifted the dox features. //DROLOGY //etland Hydrology Indicators rimary Indicators (any one independent of the common of the cost of the common of the cost of the cos	icator is sufficient) Inundation Visib Sparsely Vegeta Marl Deposits (I Hydrogen Sulfid Dry-Season Wa Other (Explain i	ole on Aerial Imagery (B7 ated Concave Surface (B815) de Odor (C1) tter Table (C2) n Remarks) inches):	Secondary Indicators (2 or more required Water-stained Leaves (B9) Drainage Patterns (B10) S8) Oxidized Rhizospheres along Living 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) Wetland Hydrology Present? Yes	Roots (

Project/Site: Rich Harris - 4700 Glacier Hwy S	ite	Borough	n/City: CBJ	Sampling Date:	7/21/201	5
Applicant/Owner Rich Harris				Sampling	Point: 4	-
Investigator(s): Koren Bosworth - BBC Lar	dform: Hillside/ to	e of slope - g	laciomarine de	posits		
Local relief (concave, convex, none):				S	lope (%): 8	70
Subregion: SE Alaska	Lat:	Loi	ng:		Datum: NAD8:	3
Soil Map Unit Name:			NW	classification: _	PF04	
Are climatic / hydrologic conditions on the site typical						
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "I	Normal Circumsta	nces" present?	YesNo	-
Are Vegetation, Soil, or Hydrology			needed, explain ar	ny answers in Re	marks.)	
SUMMARY OF FINDINGS – Attach site m	ap showing sampli	ng point loca	ations, transect	ts, important f	eatures, etc.	
		apara de la seguido en prej de sun de sucuesa, adegração para sub desprêmença do como como en producir para p				
Hydrophytic Vegetation Present? (Yes)	No	Is the Sample	ed Area	/	0 95	
Hydric Soil Present? Yes	No	within a Wetla		Yes	No	
Wetland Hydrology Present? Remarks: Higher than average rainfall for the mo	No nth Hoavy rains in th					
Remarks: Higher than average rainfall for the inc	min. neavy rains in th	e two days ber	ore the survey.			producti
VEGETATION – Use scientific names of p	lants. List all snec	ies in the nlo	t			
VEGETATION — 636 3616111116 Harries of p	Absolute Domi		Dominance Te	st worksheet	<u> </u>	
Tree Stratum	% Cover Spec				(A) A) xobe %	
1. Tsle	50 V	F	Number of Dom	ninant Species FACW, or FAC:	2	(A)
2.			That Ale Obc, i	ACVV, OF FAC.		(/1)
3.			Total Number o		.3	(B)
4.			Species Across	All Strata.		(D)
	Cover:		Percent of Dom		677	(0.45)
	20% of total	cover:		FACW, or FAC: dex worksheet:	011	(A/B)
Sapling/Shrub Stratum 1. Doho	10 1	(FI)				
2			OBL species	over of:	$\frac{\text{Multiply by:}}{\text{x 1 = }}$	
3.			FACW species		x 2 =	
4			FAC species		x 3 =	0/2
5.			FACU species UPL species		x 4 =	- basi
6.			Column Totals:		(A)	(B)
	Cover:		Prevalenc	ce Index = B/A =		
	20% of total	cover:		egetation Indica		
Herb Stratum	20 1		Dominanc	e Test is >50%		
1. <u>- yam</u> 2. <u>- t + r</u>	- JU V		Printer and the second	e Index is ≤3.0		
2 /-1 /-					Carlesone Chris	Sadin
4. 6VAC	5	FU			1 (Provide suppor a separate sheet)	
5. Stro - Streetopus rose	35 2	F			egetation ¹ (Explai	
6.					1253 24maas	
7.					etland hydrology n	nust
8.			be present unie	ess disturbed or p	Problematic.	****
9.						
10						
	Cover: 35	7	and old			
	17.5 20% of total		Hydrophytic		, (spital mydigs	
Plot size (radius, or length x width) T % Cover of Wetland Bryophytes T			Vegetation Present?	Yes	No	
(Where applicable)	otal Covel of bryophyte	J	Fiesellt	169		
Remarks:						Jan 181

SOIL	noipa9 planta FORM - Alasta Radion	Sampling Point:
Profile Description: (Describe to	the depth needed to document the indicator or o	confirm the absence of indicators.)
Depth Matrix (inches) Color (moist)	Redox Features % Color (moist) % Type¹ L	_oc² Texture Remarks
	70 Color (moist) 70 Type L	_oc² Texture Remarks
0-16t 754R 2	(w)	UII sall
		entre of American States and Falling
**************************************	PARENT NA	2 Und Name
		<u> </u>
	ewere visitely a base of the jobsesser o	nedistation the least method and the least of the least o
1		2.
Type: C=Concentration, D=Deplet Hydric Soil Indicators:	ion, RM=Reduced Matrix, CS=Covered or Coated S Indicators for Problematic Hydric So	
Histosol or Histel (A1)	Alaska Color Change (TA4) ⁴	Alaska Gleyed Without Hue 5Y or Redder
Histic Epipedon (A2)	Alaska Jpine Swales (TA5)	Underlying Layer
Hydrogen Sulfide (A4)	Alaska Redox With 2.5Y Hue	Other (Explain in Remarks)
Thick Dark Surface (A12)	in the self or reserve the	THE CONTRACT OF THE PROPERTY O
Alaska Gleyed (A13)	³ One indicator of hydrophytic vegetation	n, one primary indicator of wetland hydrology,
Alaska Redox (A14)	and an appropriate landscape position	on must be present.
Alaska Gleyed Pores (A15)	⁴Give details of color change in Remark	KS.
Restrictive Layer (if present):		
Туре:	enimo Tin musi esti tateit	/
Depth (inches):	matic (a. Latro) a raccasso	Hydric Soil Present? Yes √ No
YDROLOGY	PRO9029 0 A R	
Wetland Hydrology Indicators:	empley (FD)	Secondary Indicators (2 or more required)
Primary Indicators (any one indicato	r is sufficient)	Water-stained Leaves (B9)
Surface Water (A1)	Inundation Visible on Aerial Imagery (B7	
High Water Table (A2)	Sparsely Vegetated Concave Surface (E	Oxidized Rhizospheres along Living Roots (C3)
✓ Saturation (A3)	Marl Deposits (B15)	Presence of Reduced Iron (C4)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Salt Deposits (C5)
Sediment Deposits (B2)	Dry-Season Water Table (C2)	Stunted or Stressed Plants (D1)
Drift Deposits (B3)	Other (Explain in Remarks)	Geomorphic Position (D2)
Algal Mat or Crust (B4)		Shallow Aquitard (D3)
Iron Deposits (B5)		Microtopographic Relief (D4)
Surface Soil Cracks (B6)	faction and the consequent and	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes		
	es No Depth (inches):	/
Saturation Present? Ye (includes capillary fringe)		Wetland Hydrology Present? Yes No
Describe Recorded Data (stream ga	auge, monitoring well, aerial photos, previous inspec	tions), if available:
		festssings in
Remarks:		37

Investigator(s): Koren Bosworth - BBC	Project/Site: Rich Harris - 4700 Glacier Hwy Site	Borough/City: CBJ Sampling Date: 7/21/2015
Local relief (concave_gon/go2hone): Subregion: SE Alaska Lat: Long: Datum: NADB3 Subregion: SE Alaska Lat: Long: NWI classification: Are defination / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology analysin filterative disturbed? Are Vegetation: Soil or Hydrology analysing filterative disturbed? Are Vegetation: Soil or Hydrology analysing filterative disturbed? Are Vegetation: Soil or Hydrology analysing filterative disturbed? Are Vegetation Present? Yes No Welthand Hydrologic Present? Yes No Welthand Hydrology Present? No Welthand Hydrology Present? No Welthand Hydrology Present? No Welthand Hydrology Present? No Welthand Hydrology Present?	Applicant/Owner Rich Harris	Sampling Point: 5
Solt Map Unit Name: Are degetation Soil and Unit Name: Are degetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Within a Wetland? Yes No Within a Wetland? Wetland Hydrology Present? Yes No Within a Wetland? Yes No Within a Wetland? Wetland Hydrology Present? Yes No Within a Wetland? Yes No With	Investigator(s): Koren Bosworth - BBC Landform: Hillside/ toe of	slope - glaciomarine deposits
Solt Map Unit Name: Are degetation Soil and Unit Name: Are degetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Within a Wetland? Yes No Within a Wetland? Wetland Hydrology Present? Yes No Within a Wetland? Yes No Within a Wetland? Wetland Hydrology Present? Yes No Within a Wetland? Yes No With	Local relief (concave, convex none):	Slope (%): 8 90
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	Subregion: SE Alaska Lat:	Long: Datum: NAD83
Are Vegetation		
Are Vegetation		
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 No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Byophytes No of total cover: 20% of total cover:		
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No within a Wetland Hydrology Present? Yes No within a Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology No Hydrology Present? Yes No Wetland Bryophytes No of total cover: 20 20% of total cover: 40 20 4 20 4 20 4 20 4 20 4 20 4 20 4		
Second Hydric Soil Present? Yes No		
Second Hydric Soil Present? Yes No		
Remarks: Higher than average rainfall for the month. Heavy rains in the two days before the survey. This stands are presented as the plot. The stratum Species of the survey. This species in the plot. Total Cover: Species Status Species That Are OBL, FACW, or FAC: (A)	lst	the Sampled Area
Remarks: Higher than average rainfall for the month. Heavy rains in the two days before the survey. This stands are presented as the plot. The stratum Species of the survey. This species in the plot. Total Cover: Species Status Species That Are OBL, FACW, or FAC: (A)	wit	thin a Wetland? Yes No
VEGETATION – Use scientific names of plants. List all species in the plot. Tree Stratum Absolute Dominant Indicators (A) Cover Species? Status (A) Total Number of Dominant Species That Are OBL, FACW, or FAC:		
Absolute % Cover Stratum Tree Stratum	This sample point ison a small ridge	in a mapped with and,
Test Stratum	VEGETATION – Use scientific names of plants. List all species i	in the plot.
Total Cover Co Co Co Co Co Co Co C		
2.	AND THE PROPERTY OF THE PROPER	Number of Descinant Consise
Total Cover: 60 Sapling/Shrub Stratum 1. On 0. 20 / FU 2. Vacv 20 / Forestand Cover: 60 / Forestand Strata (A) / Frevalence Index worksheet: Total Cover of Cover o		That Are OBL, FACW, or FAC:(A)
Species Across All Strata:		Total Number of Dominant
Total Cover: 50 Sapling/Shrub Stratum 1. Ophic 20		Species Across All Strata: (B)
Sapling/Shrub Stratum		Percent of Dominant Species
Total Cover: 55 Total Cover: 10 Total Cove	50% of total cover: 20% of total cove	r: That Are OBL, FACW, or FAC: (A/B)
2. Va o V 20		Prevalence Index worksheet:
3.		
FAC species 100 x3 = 300 FACU species 55 x4 = 220 UPL		EACIAI anacias
5		FAC species $100 \times 3 = 300$
Column Totals: 155 (A) 520 (B) Total Cover: 40 Solve of total cover: 20 20% of total cover: 3 Herb Stratum 1. Coca - Cocus canadensis 35 / Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index = B/A = 3 , 35 Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0 Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation' (Explain) 1 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. Total Cover: 557 Solve of total cover: 40 Total Cover: 557 Solve of total cover: 40 Flot size (radius, or length x width) 15 diam, 8 Bare Ground (Where applicable) Total Cover of Bryophytes Present? Yes No	Therefore the state of the stat	FACU species 55 x4= 320
Total Cover: 40 50% of total cover: 20 20% of total cover: 3 Hydrophytic Vegetation Indicators: Dominance Test is >50%		
Herb Stratum 1.		3.35
Herb Stratum 1. COCG - Colous Canadensis 35 2. Cocs - Coptis Casology (Prevalence Index is \$3.0) 3. After Athyruum Calculation 5 4. Gydr - Gymnocar pium (Ar. 5) 6. Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. Plot size (radius, or length x width) 15 diam		
Prevalence Index is ≤3.0 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. Plot size (radius, or length x width) 5 diam % Bare Ground Where applicable) Prevalence Index is ≤3.0 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. Hydrophytic Vegetation Ve		And the world hadd
Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	1. Coca - Cornus canadensis 35 V	
4. 6ydr - 6ymnocorpium (hr. 5 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.		Prevalence Index is ≤3.0
Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.	Management of the control of the con	Morphological Adaptations ¹ (Provide supporting
6		
7		Problematic Hydrophytic Vegetation (Explain)
8	A CONTRACTOR OF THE CONTRACTOR	
9		be present unless disturbed or problematic.
Total Cover:		- I see The see I see
50% of total cover: 27,5 20% of total cover:	10	
Plot size (radius, or length x width) 15 diam % Bare Ground Vegetation % Cover of Wetland Bryophytes Total Cover of Bryophytes Present? Yes No Wetland Bryophytes Yes No Wetla		
Plot size (radius, or length x width) 15 0 1200 % Bare Ground Vegetation Wegetation Wegetation Wegetation Present? Yes No Where applicable)		
(Where applicable)		Vegetation /
		Present? Yes No
Remains.		
	nomans.	

•	depth needed to document the indicator or confin	rm the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type ¹ Loc ²	Texture Remarks
0-2 754R 25	/ 1	OW Got
2 9 7-110 0-	1,	
2-1 FB 4K 25	/	om w/ rocks unsalo
9+ 2.545/3	Colluviu	m Rocks w/ OM unsal
(concret) at area	ene yes malows (bodeen h) y foromeldow y	maken volubouru 2 x sib
oto manifestifiction	mi sisasset saksisse elle esisees nee	arda cam sha weda
	RM=Reduced Matrix, CS=Covered or Coated Sand (Grains. ² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :	Alacka Claved Mith ant Hua TV as Badden
Histosol or Histel (A1) Histic Epipedon (A2)	Alaska Color Change (TA4) ⁴ Alaska Alpine Swales (TA5)	Alaska Gleyed Without Hue 5Y or Redder Underlying Layer
Hydrogen Sulfide (A4)	Alaska Redox With 2.5Y Hue	Other (Explain in Remarks)
Thick Dark Surface (A12)		
Alaska Gleyed (A13)	³ One indicator of hydrophytic vegetation, one	e primary indicator of wetland hydrology,
Alaska Redox (A14)	and an appropriate landscape position mu	st be present.
Alaska Gleyed Pores (A15)	⁴ Give details of color change in Remarks.	2.13
Restrictive Layer (if present):		
Type:	each to any drawn law T	
		Hydric Soil Present? Yes No
Depth (inches):Remarks:	out of the influence of the tides, leaving a relative	Hydric Soil Present? Yes No
	- 480 mg 180	
YDROLOGY Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
		Secondary Indicators (2 or more required) Water-stained Leaves (B9)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1)	Inundation Visible on Aerial Imagery (B7)	Water-stained Leaves (B9) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2)	Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3)
Vetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1)	Inundation Visible on Aerial Imagery (B7)	Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)
Vetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2)	 Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) 	Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3)	Inundation Visible on Aerial Imagery (B7)Sparsely Vegetated Concave Surface (B8)Marl Deposits (B15)	Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	 Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) 	Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Salt Deposits (C5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	 Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) 	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)

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

No

Yes_

Depth (inches):

Depth (inches):

Depth (inches):

the moss of top inch of om was well after heavy rain.

Surface Soil Cracks (B6)

Field Observations:
Surface Water Present?

Water Table Present?

(includes capillary fringe)

Saturation Present?

FAC-Neutral Test (D5)

Wetland Hydrology Present? Yes __

Project/Site: Rich Harris - 4700 Glacier Hwy Site	Borougi	h/City: CBJ Sampling Dat	e: 7/21/2015
Applicant/Owner Rich Harris		Samplin	ng Point:
Investigator(s): Koren Bosworth - BBC Landf	form: Hillside/ toe of slope - g		
Local relief (concave, convex, none):			Slope (%): flat
Subregion: SE Alaska La			
Soil Map Unit Name:		NWI classification:	PF04
Are climatic / hydrologic conditions on the site typical fo	or this time of year? Yes	No x (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology si			/
Are Vegetation, Soil, or Hydrology			
SUMMARY OF FINDINGS – Attach site map			
Hydrophytic Vegetation Present?	No	Operated brooks Related proteins	
Hydric Soil Present?	No Is the Sample		tennesited fip3 police
Wetland Hydrology Present? Yes	No within a Wetl	land? Yes	No
Remarks: Higher than average rainfall for the mont	th. Heavy rains in the two days bef	fore the survey.	
VEGETATION – Use scientific names of pla	ints. List all species in the plo	ot.	THIS DATE SWIFTER DATE:
100000	Absolute Dominant Indicator	Dominance Test worksheet:	
Tree Stratum	% Cover Species? Status	Number of Dominant Species	. 3 (A)
1. Tshe	_ 50	That Are OBL, FACW, or FAC	
3.		Total Number of Dominant	11
4.	5-24-1	Species Across All Strata:	(B)
	over:	Percent of Dominant Species	7501-
	20% of total cover:	That Are OBL, FACW, or FAC	
Sapling/Shrub Stratum	ingm viewitales a pervise, man est	Prevalence Index worksheet	
1. Vavo		Total % Cover of:	
2. Mete	_	OBL species	x 1 =
3. <u>Opho</u>			x 2 = x 3 =
4		FACU species	x 4 =
56		UPL species Column Totals:	x 5 =(B)
	ver: <u>33</u>		11 (6.1 (a.a.) (7.1 (a.c.) (6.1 (2.1
	6.5 20% of total cover: 6.6	Prevalence Index = B/A :	
Herb Stratum		Hydrophytic Vegetation India	
1. Lyam	30 V O	✓ Dominance Test is >50%	
2. Titr	5 F	Prevalence Index is ≤3.0	
3. <u>6ydr</u> 4. Cdca	$\frac{5}{3}$ FU	Morphological Adaptation data in Remarks or on	ns ¹ (Provide supporting n a separate sheet)
5		Problematic Hydrophytic	
6.		¹ Indicators of hydric soil and w	vetland hydrology must
7		be present unless disturbed or	
8 9			
10.	Andrea Andreas de Contracto de	Marie T. M. Marie College	
Total Co	ver: 43	Mad and a series are a series and a series and a series and a series and a series a	
50% of total cover:		Hydrophytic	Vingaer I noise
Plot size (radius, or length x width)		Vegetation /	
% Cover of Wetland Bryophytes Tota (Where applicable)		Present? Yes	No
Total Cov 50% of total cover: Plot size (radius, or length x width) % Cover of Wetland Bryophytes Total	ver: <u>43</u> 20% of total cover: <u>8.6</u> % Bare Ground		No

OIL		
	depth needed to document the indicator or confi	irm the absence of indicators.)
Depth <u>Matrix</u> (inches) Color (moist) %	Redox Features Color (moist) % Type ¹ Loc ²	Texture Remarks
0-14 1040 211		NM sat
0-11-10-118-01-1		
14+ 10412211		DNI Frocks sal.
	press IV/M	dni Nazire
	78. 7	
	<u> </u>	resident de la company de la c
	ena yna rus vaca, bobean till — Catamatagus, s	dansen ypolodyddine bei llod yn ddine
		was a second of the second of
Type: C=Concentration D=Depletion	RM=Reduced Matrix, CS=Covered or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :	
Histosol or Histel (A1)	Alaska Color Change (TA4) ⁴	Alaska Gleyed Without Hue 5Y or Redder
Histic Epipedon (A2)	Alaska Alpine Swales (TA5)	Underlying Layer
Hydrogen Sulfide (A4)	Alaska Redox With 2.5Y Hue	Other (Explain in Remarks)
Thick Dark Surface (A12)	' old antiny seroeds its tel	
Alaska Gleyed (A13)	³ One indicator of hydrophytic vegetation, on	
Alaska Redox (A14) Alaska Gleyed Pores (A15)	and an appropriate landscape position me ⁴ Give details of color change in Remarks.	ust be present.
Alaska Gleved Foles (A IS)	Give details of color change in Nemarks.	
Restrictive Layer (if present):		
Restrictive Layer (if present): Type: Depth (inches): Remarks: sostatic rebound has lifted this site	I NA second recorded The size of La fine of Second recorded recor	Hydric Soil Present? Yes No
Restrictive Layer (if present): Type: Depth (inches): Remarks: sostatic rebound has lifted this site	I NA second recorded The size of La fine of Second recorded recor	Hydric Soil Present? Yes No
Restrictive Layer (if present): Type: Depth (inches): Remarks: sostatic rebound has lifted this site edox features.	I NA second recorded The size of La fine of Second recorded recor	70. 0. 6/01/0 8/01
Restrictive Layer (if present): Type: Depth (inches): Remarks: Sostatic rebound has lifted this site edox features.	I NA second recorded The size of La fine of Second recorded recor	701 01 6101 0 8703
Restrictive Layer (if present): Type: Depth (inches): Remarks: Sostatic rebound has lifted this site edox features. YDROLOGY Vetland Hydrology Indicators:	out of the influence of the tides, leaving a relative	ely impermeable silt layer that has some remenant
Type:	out of the influence of the tides, leaving a relative	ely impermeable silt layer that has some remenant Secondary Indicators (2 or more required)
Type:	out of the influence of the tides, leaving a relative	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10)
Type:	out of the influence of the tides, leaving a relative sufficient) Inundation Visible on Aerial Imagery (B7)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10)
Type:	out of the influence of the tides, leaving a relative sufficient) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C
Restrictive Layer (if present): Type: Depth (inches): Remarks: Sostatic rebound has lifted this site edox features. YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	sufficient) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C
Type:	sufficient) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Salt Deposits (C5)
Restrictive Layer (if present): Type: Depth (inches): Remarks: Sostatic rebound has lifted this site edox features. YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	sufficient) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1)
Restrictive Layer (if present): Type: Depth (inches): Remarks: Re	sufficient) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (Compresence of Reduced Iron (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Restrictive Layer (if present): Type: Depth (inches): Remarks: Remarks: Resolved From the solution of the sol	sufficient) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (Compresence of Reduced Iron (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)
Restrictive Layer (if present): Type: Depth (inches): Remarks: Sostatic rebound has lifted this site edox features. Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	sufficient) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (Center of Reduced Iron (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Restrictive Layer (if present): Type:	sufficient) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (Center of Reduced Iron (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Restrictive Layer (if present): Type:	sufficient) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C 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)
Restrictive Layer (if present): Type:	sufficient) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (Compresence 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)
Restrictive Layer (if present): Type: Depth (inches): Remarks: Sostatic rebound has lifted this site redox features. YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Ves Vater Table Present? Ves Saturation Present? Yes	sufficient) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required) Water-stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C 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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