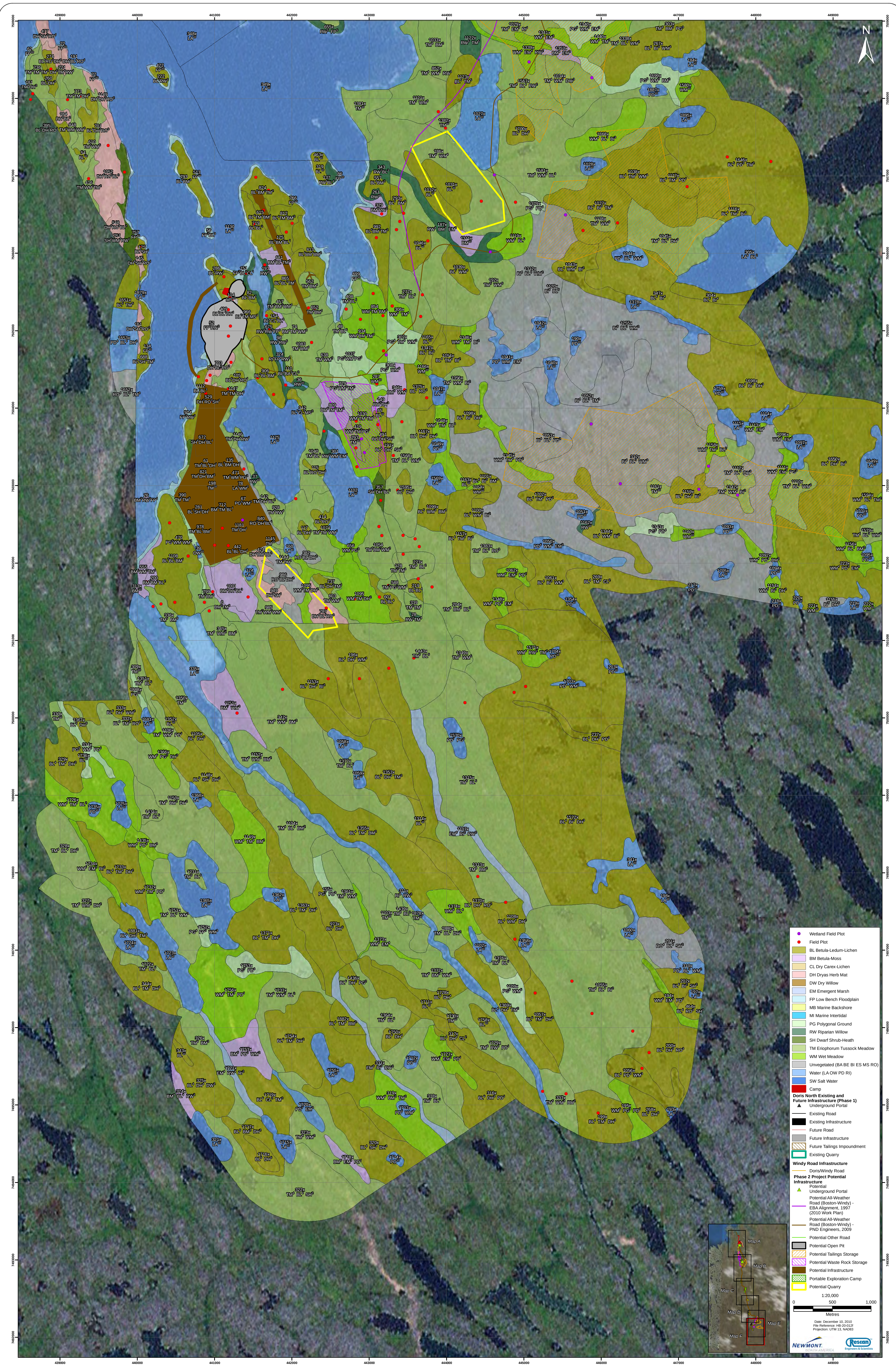




- Wetland Field Plot
- Field Plot
- BL Betula-Ledum-Lichen
- BM Betula-Moss
- CL Dry Carex-Lichen
- DH Dryas Herb Mat
- DW Dry Willow
- EM Emergent Marsh
- FP Low Bench Floodplain
- MB Marine Backshore
- MI Marine Intertidal
- PG Polygonal Ground
- RW Riparian Willow
- SH Dwarf Shrub-Heath
- TM Eriophorum Tussock Meadow
- WM Wet Meadow
- Unvegetated (BA BE BI ES MS RO)
- Water (LA OW PD RI)
- SW Salt Water
- Camp
- Doris North Existing and Future Infrastructure (Phase 1)
- Underground Portal
- Existing Road
- Existing Infrastructure
- Future Road
- Future Infrastructure
- Future Tailings Impoundment
- Existing Quarry
- Windy Road Infrastructure
- Doris/Windy Road
- Phase 2 Project Potential Infrastructure
- Potential Underground Portal
- Potential All-Weather Road (Boston-Windy) - EBA Alignment, 1997 (2010 Work Plan)
- Potential All-Weather Road (Boston-Windy) - PND Engineers, 2009
- Potential Other Road
- Potential Open Pit
- Potential Tailings Storage
- Potential Waste Rock Storage
- Potential Infrastructure
- Portable Exploration Camp
- Potential Quarry
- 1:20,000
- 0 500 1,000 Metres
- Date: December 10, 2010
File Reference: H0-200102
Projection: UTM 13, NAD83
- NEWMONT
MINING
Rescan
Engineers & Geoscientists

Appendix 8

2010 Terrestrial and Wetland Field Data

Appendix 8a. 2010 Terrestrial Field Data

Project Name	Plot #	Date	Surveyors	Photos	UTM zone	Northing	Easting	Slope	Aspect	Elevation	Slope Position	Surficial Material	Terrain	Microtopography	Mineral Soil Texture	Organic Soil Texture	Surface Sub Bedrock	Surface Sub Boulder	Surface Sub Rock	Surface Sub Mineral Soil	Surface Sub Water	Surface Sub Organic Soil	Permafros t Present	Permafros t Depth	Fragment Content	Soil Moisture Regime	Soil Nutrient Regime	ShrubTotal Cover (%)	Herb Total Cover (%)	Moss Total Cover (%)	Polygon Summary	Map Unit
Hope Bay Belt	001	11-Jul-10	ST, RD, BS, DK	40 - 54	13	7562225	431795	0	999		water receiving	moraine		hummocky	Silty Clay		0	0					TRUE	30	<20%	wet	medium	65	65	40		TM
Hope Bay Belt	002	11-Jul-10	ST, RD, BS, DK	68 - 83	13	7562513	431501	25	NE		water shedding	moraine	slope		Silty Loam	N/A	0	0			N/A	N/A	FALSE		35-70%	mesic-dry	poor	65	45	10		DH
Hope Bay Belt	003 - V	11-Jul-10	ST, RD, BS, DK	84 - 92	13			0	999		water shedding	rock	ridge crest	br. outcrop		N/A	95	0	0	5	0	0	FALSE			dry	very poor	80		35		CL
Hope Bay Belt		004	12-Jul-10	ST, RD, BS, TP	121 - 126	13	7557681	431600	2.5	SE	mid-slope-water shedding	moraine	slope	hummocky	Clayey		0	0	0		0	N/A	TRUE	36	<20%	mesic	rich - medium	90	25	25		BL
Hope Bay Belt	005	12-Jul-10	ST, RD, BS, TP	127 - 134	13	7557566	431712	0	999		level	lacustrine	valley bottom		Silty Clay Loam	Mesic	0	0	0		0		TRUE	28	<20%	moist	medium	1	5	10		BM
Hope Bay Belt	006	12-Jul-10	ST, RD, BS, TP	137 - 142	13	7557078	431717	0	999		crest-water shedding	rock	ridge crest	br. outcrop		N/A	100				0	0	FALSE			dry	very poor	70		10		CL
Hope Bay Belt	007	12-Jul-10	ST, RD, BS, TP	159 - 167	13	7556703	431919	10	N			moraine	bould field		Sandy Loam	N/A	0	15	20		0		FALSE		35-70%	mesic	medium	70	10	10		SH
Hope Bay Belt	008	12-Jul-10	ST, RD, BS, TP	168 - 174	13	7556490	431889	8	W		water shedding	lacustrine		hummocky	Silty Clay	Mesic	0	0	0		0		TRUE	32	<20%	moist	medium	75	30	30		TM
Hope Bay Belt	009	14-Jul-10	ST, RD, BS, TP	197 - 202	13	7507188	448193	2.5	S	111	neither shedding nor receiving	organic				Fibric	0	0	0		0		TRUE	20	<20%	moist	medium	64	50	30		TM
Hope Bay Belt	010	14-Jul-10	ST, RD, BS, TP	203 - 207	13	7507247	447631	0	999	122	water shedding	moraine	ridge crest	br. outcrop	Loamy	N/A	50	5	40		0	0	FALSE		35-70%	mesic-dry	medium	65	0.1	15		BL
Hope Bay Belt	011	14-Jul-10	ST, RD, BS, TP	208 -213	13	7506863	447111	0	999	116	level- neither receiving or shedding	moraine		br. outcrop	Loamy	Fibric	0	10	50		0		FALSE		20-35%	mesic-mesic-dry	medium	70	0.1	20		BL
Hope Bay Belt	012	14-Jul-10	ST, RD, BS, TP	214 - 219	13	7506395	446209	0	999	113	level-water receiving	moraine			Sandy Loam	Fibric - Humic	0	0	0		0		TRUE	41	35-70%	wet-moist	medium	45	55	40		TM
Hope Bay Belt	013	14-Jul-10	ST, RD, BS, TP	220 - 223	13	7506296	445764	8	N	94	upper slope-water shedding	moraine	slope		Sandy Loam	N/A	40	0	35		0	0	FALSE		20-35%	moist-mesic	medium	50	0.1	24		BL
Hope Bay Belt	014	14-Jul-10	ST, RD, BS, TP	224 - 230	13	7547927	437081	5	W	45	mid-slope	glacial lacustrine			Clay Loam	Mesic	0	0	0		0		TRUE	42	<20%	moist	medium	65	35	35		TM
Hope Bay Belt	015	15-Jul-10	ST, RD, BS, TP	231 - 236	13	7547734	437131	10	N	57	upper slope-water shedding	moraine		br. outcrop	Sandy Loam	N/A	50	5	20	40	0	0	FALSE		35-70%	dry	medium	35		31		DH
Hope Bay Belt	016	15-Jul-10	ST, RD, BS, TP	254 - 264	13	7547392	437606	10	S	53	upper slope	moraine	slope	br. outcrop	Loamy	Humic					0		TRUE	50	<20%	moist	medium	42	40	35		SH
Hope Bay Belt	017	15-Jul-10	ST, RD, BS, TP	281 - 291	13	7547059	437790	0	999	38	water receiving	organic			N/A	Fibric - Mesic	0	0	0		0		TRUE	18	<20%	wet	very poor	75	15	45		RW
Hope Bay Belt	018	15-Jul-10	ST, RD, BS, TP	292 - 298	13	7546759	437685	2.5	E	41	mid-slope-water shedding	glacial lacustrine		hummocky	Clay Loam	Mesic	0	0	0		0		TRUE	45	<20%	moist	medium	50	20	40		DW
Hope Bay Belt	019	15-Jul-10	ST, RD, BS, TP	299 - 306	13	7546321	437579	10	NE	65	crest - upper slope-water shedding	moraine	ridge crest	br. outcrop	N/A	Mesic	10	20	10		0	0	FALSE		>70%	dry	poor	55	5	25		SH
Hope Bay Belt	020	15-Jul-10	ST, RD, BS, TP		13	7546263	437459	10	NW	47	mid-slope	moraine			Silty Loam	N/A		50			0		TRUE	51	35-70%	moist	medium	40	35			SH
Hope Bay Belt	021	16-Jul-10	ST, RD, BS, TP	307 - 313	13	7559766	431742	0	999	19	neither shedding nor receiving	glacial lacustrine	plain		Clay Loam	N/A	0	0	0.1		0		TRUE	52	<20%	moist	medium	35	50	55		TM
Hope Bay Belt	022	16-Jul-10	ST, RD, BS, TP	314 - 318	13	7559736	431495	2.5	S	41	water receiving	glaciomarine		br. outcrop	Silty Clay Loam	N/A	0	5	0		0		TRUE	68	<20%	moist	rich	65	25	25		SH
Hope Bay Belt	023	16-Jul-10	ST, RD, BS, TP	319 - 325	13	7553440	434866	5	W	27	midslope	glaciomarine			Clay Loam	N/A	0	0	0		1		TRUE	43	<20%	wet-moist	rich	65	60	35		TM
Hope Bay Belt	024	16-Jul-10	ST, RD, BS, TP	326 - 334	13	7553215	435038	67	W	65	water shedding	moraine	slope		Sandy Clay Loam	Fibric	0	20	5		0		FALSE		20-35%	mesic	rich	75	20	10		DW
Hope Bay Belt	025	16-Jul-10	ST, RD, BS, TP	335 - 339	13	7552926	435165	5	NW	61		weathered bedrock	ridge crest	br. outcrop	N/A	N/A	50	60	10		0	0	FALSE				rich	20	15	7		CL
Hope Bay Belt	026	16-Jul-10	ST, RD, BS, TP	340 - 345	13	7552562	435184	0	999	47		lacustrine			Silty Clay Loam	N/A	0	0					TRUE	30	<20%		rich	50	30			TM
Hope Bay Belt	027	16-Jul-10	ST, RD, BS, TP	345 - 350	13	7552176	435154	2.5	NW	46		lacustrine			Silty	Fibric - Mesic	0	1			4		TRUE	35	<20%	wet-moist	medium	45	40	30		TM
Hope Bay Belt	028	18-Jul-10	ST, RD, BS, TP	357 - 366	13	7557943	436537				water receiving	lacustrine	valley bottom				0	0	0		0		FALSE					85	10	40		BM
Hope Bay Belt	029	18-Jul-10	ST, RD, BS, TP	367 - 376	13	7557974	436397		E		midslope	lacustrine					0	1	0		0		FALSE					70	22			DW
Hope Bay Belt	030	18-Jul-10	ST, RD, BS, TP	384 - 389	13	7557597	436232		NE		midslope	moraine					0		0		0		FALSE					53	0.1	20		BL
Hope Bay Belt	1	18-Aug-10	DP, RM, DI	145	13	7559191	434101	3		22	toe	see soils field data	lake	tussocks/hummocky		Fibric					20		TRUE	55	0	7	B	85	95	5		RW
Hope Bay Belt	2	18-Aug-10	DP, RM, DJ	149	13	7559178	434125	2		22	lower	organic veneer over floodplain	slope	hummocky		Fibric					5		FALSE		0	7	B	65	95	7		RW
Hope Bay Belt	3	18-Aug-10	DP, RM, DJ	150	13	7559186	434133	3		22	mid-slope	organic veneer over floodplain	slope	hummocky		Fibric							TRUE	45		7	B	55	85	20		RW
Hope Bay Belt	D01	14-Aug-10	DP, RM, DJ	16, 19, 20	13	7553678	433669	10	254	67	mid-slope	see soils field data	slope	hummocky									TRUE	30	<20%	4	C	95	90	7		TM
Hope Bay Belt	D02	14-Aug-10	DP, RM, DJ	21, 22	13	7553305	433492	15	250	44	toe	see soils field data	slope	hummocky		Silty	Fibric						TRUE	35	<20%	6	C	76	90	1		TM
Hope Bay Belt	D03	15-Aug-10	DP, RM, DJ	30, 31	13	7546977	433336	15	276	51	lower	moraine	slope	hummocky		Clayey							TRUE	35	<20%	6	C	55	90	1		BL
Hope Bay Belt	D04	15-Aug-10	DP, RM, DJ	33, 34	13	7547382	432972	3	999	48	level	glacial lacustrine	plain		Silty	Fibric					1		TRUE	22	<20%	7	C	35	85	0.1		WM
Hope Bay Belt	D05	15-Aug-10	DP, RM, DJ	36, 37	13	7547427	432899	20	120	54	upper	moraine		br. outcrop	Sandy Loam	Fibric	45	5	5				FALSE		>70%	2	B	45	0.1	1.01		SH
Hope Bay Belt	D06	15-Aug-10	DP, RM, DJ	39, 40	13	7547704	432311	5	27	60	mid-slope	moraine		hummocky/frost boils	Loamy								TRUE	47	<20%	4	C	65	76	5		BL
Hope Bay Belt	D07	15-Aug-10	DP, RM, DJ	42, 43	13	7548125	432919	9	260	53	level	morainai	blanlket	hummocky	Clay Loam	Fibric							TRUE	50	<20%	7	C	50	95	10		BL
Hope Bay Belt	D08	15-Aug-10	DP, RM, DJ	46, 47	13	7548660	433060	2	999	69	depression	moraine	plateau		frost boils	Sandy		1					TRUE	70	<20%	4	C	60	22	10		BL
Hope Bay Belt	D09	15-Aug-10	DP, RM, DJ	50, 51	13	7548585	432591	0	990	19	level	glacial lacustrine	valley bottom	hummocky	Silty Clay								TRUE	50	<20%	6	C	75	98	0.1		RW
Hope Bay Belt	D10	15-Aug-10	DP, RM, DJ	53, 54	13	7548235	432471	3	160	42	toe	moraine		hummocky	Sandy		15	5					FALSE		<20%	3	B	91	11	0.3		DH
Hope Bay Belt	D100	26-Aug-10	DP, RM, DJ	373, 374	13	7517384	438867	10	360	105	mid-slope	glacial lacustrial	slope	hummocky/frost boils	Silty Clay Loam						4		TRUE	55	0	5	C	87	55	40		TM
Hope Bay Belt	D101	26-Aug-10	DP, RM, DJ	376, 377	13	7517496	438947	0	999	97	level	organic	floodplain	flat		Fibric							TRUE	45	0	8	B	2	100	60	EM and FP	FP
Hope Bay Belt	D102	27-Aug-10	DP, RM, DJ	379, 380	13	7524930	437940	5	010	93	lower	morainai	slope	frost boils/solifluct	Loamy Sand							FALSE		0	4	C	95	5	3		BL	
Hope Bay Belt	D103	27-Aug-10	DP, RM, DJ	382, 383	13	7524875	437813	5	220	90	lower	glacial moraine	slope	hummocky	Silty Clay								TRUE	55	0	6	C	57	32	50		TM
Hope Bay Belt	D104	27-Aug-10	DP, RM, DJ	385, 386	13	7524593	437654		999	79		lacustrine	stream	hummocky	Silty Clay								FALSE		0	8	C	70	100	0		EM
Hope Bay Belt	D105	27-Aug-10	DP, RM, DJ	388, 389	13	7524024	437567	20	variable	109	crest	weathered bedrock	ridge crest		Loamy Sand							FALSE		35-70%	0	B	2	1	0	RO and CL	RO	
Hope Bay Belt	D106	27-Aug-10	DP, RM, DJ	391, 392	13	7523579	438028	5	010	97	upper	moraine	slope	br. outcrop	Sandy Loam		30						FALSE		20-35%	3	B	70	1	0.2	BL and DH	BL
Hope Bay Belt	D107	27-Aug-10	DP, RM, DJ	394, 395	13	7523270	438343	5	100	92		glacial marine		hummocky	Silty Clay	Mesic					1		TRUE	32	0	6	B	90	100	20		TM
Hope Bay Belt	D108</																															

Appendix 8a. 2010 Terrestrial Field Data

Project Name	Plot #	Date	Surveyors	Photos	UTM zone	Northing	Easting	Slope	Aspect	Elevation	Slope Position	Surficial Material	Terrain	Microtopography	Mineral Soil Texture	Organic Soil Texture	Surface Sub Bedrock	Surface Sub Boulder	Surface Sub Rock	Surface Sub Mineral Soil	Surface Sub Water	Surface Organic Soil	Permafros t Present	Permafros t Depth	Fragment Content	Soil Moisture Regime	Soil Nutrient Regime	ShrubTotal Cover (%)	Herb Total Cover (%)	Moss Total Cover (%)	Polygon Summary	Map Unit
Hope Bay Belt	D28	17-Aug-10	DP, RM, DJ	114, 115, 116	13	7543000	432157	10	040	28	mid-slope	glacial lacustrine	slope	soilfluct	Silty Clay								TRUE	30	0	4	C	86	14	75		DW
Hope Bay Belt	D29	17-Aug-10	DP, RM, DJ	118, 119	13	7542768	432032	15	290	50	mid-slope	moraine	slope	hummocky	Silty Clay			1	1				TRUE	40	<20%	5	D	44	54	20		SH
Hope Bay Belt	D30	17-Aug-10	DP, RM, DJ	121, 122	13	7542518	432030	0	999	50	level	glacial lacustrine	plain	flat	Silty Clay	Mesic						TRUE	20	0	7	C	30	100	40		WM	
Hope Bay Belt	D31	17-Aug-10	DP, RM, DJ	124, 125	13	7542187	432430	5	080	47	mid-slope	glacial lacustrine	slope	frost boils	Silty							TRUE	28		5	B	96	77	65		BL	
Hope Bay Belt	D32	17-Aug-10	DP, RM, DJ	127, 128, 125	13	7542115	432709	5	140	9	toe	fluvial	floodplain	flat	Loamy						2	TRUE	44	20-35%	7	C	15	2	95		RW	
Hope Bay Belt	D33	19-Aug-10	DP, RM, DJ	152, 153	13	7532162	438933	0	999	84	level	glacial lacustrine	plain	hummocky	Silty Clay	Fibric						FALSE		0	6	B	60	100	10		TM	
Hope Bay Belt	D34	19-Aug-10	DP, RM, DJ	155, 156	13	7531965	438812	10	340	96	upper	moraine	ridge crest	br. outcrop	Silt Loam		70					FALSE		35-70%	1	B	20	20	85	RO and CL	CL	
Hope Bay Belt	D35	19-Aug-10	DP, RM, DJ	158, 159	13	7531427	438414	0	999	82	level	glacial lacustrine	plain	hummocky	Silty Clay	Fibric						TRUE	25		6	B	52	100	2		TM	
Hope Bay Belt	D36	19-Aug-10	DP, RM, DJ	163, 164	13	7531221	438361	10	020	93		moraine	slope	soilfluct	Sandy Loam							TRUE	80	<20%	4	B	90	65	10		SH	
Hope Bay Belt	D37	19-Aug-10	DP, RM, DJ	166, 167	13	7531031	438235	5	320	83	lower	glacial lacustrine	plain	flat	Silt Loam	Mesic					2	TRUE	20	0	7	C	1	99	0		WM	
Hope Bay Belt	D38	19-Aug-10	DP, RM, DJ	169, 170	13	7530727	438196	10	316	88	lower	moraine	slope	flat	Sandy							FALSE		20-35%	3	B	64	5	36		BL	
Hope Bay Belt	D39	19-Aug-10	DP, RM, DJ	173, 174	13	7530438	438041	10	variable	97	upper	moraine	plateau	polygon	Sandy			2				FALSE		35-70%	2	B	75	42	15		DH	
Hope Bay Belt	D40	19-Aug-10	DP, RM, DJ	176, 177	13	7520942	438143	5	variable	115	crest	bedrock	plateau	br. outcrop			80					FALSE			0	B	78	2	46	RO and CL	CL	
Hope Bay Belt	D41	19-Aug-10	DP, RM, DJ	179, 180	13	7529543	438384	0	999	99	level	moraine	plain	hummocky	Loamy							TRUE	50	<20%	6	B	18	98	23		TM	
Hope Bay Belt	D42	19-Aug-10	DP, RM, DJ	182, 183	13	7529300	438752	3	-	100	level	glacial fluvial	esker	flat	Sandy							FALSE		<20%	2	B	40	0	5	ES and DH	DH	
Hope Bay Belt	D43	19-Aug-10	DP, RM, DJ	185, 186	13	7528747	438876	3	variable	98	upper	moraine	esker	frost boils								TRUE	46	<20%	4	C	100	0.2	5		DH	
Hope Bay Belt	D44	19-Aug-10	DP, RM, DJ	189, 190	13	7528680	438986	5	variable	89	level	glacial lacustrine	plain	hummocky/frost boils	Silty Clay	Mesic						TRUE	20	0	6	C	17	98	32		TM	
Hope Bay Belt	D45	19-Aug-10	DP, RM, DJ	192, 193	13	7556183	429353	3	200	48	lower	moraine	slope	hummocky	Loamy							TRUE	80	20-35%	5	C	100	40	15		BL	
Hope Bay Belt	D46	20-Aug-10	DP, RM, DJ	195, 196, 196	13	7556138	429748	60	050	38	mid-slope	colluvial	cliff	br. outcrop	Silt Loam							FALSE		<20%	2	B	70	40	10	SH and RO	SH	
Hope Bay Belt	D47	20-Aug-10	DP, RM, DJ	203, 204	13	7556269	430074	0	999	20	level	glacial lacustrine	plain	flat	Silty Clay							TRUE	42	0	6	C	85	10	50		BM	
Hope Bay Belt	D48	20-Aug-10	DP, RM, DJ	206, 207	13	7556611	430304	0	999	14	level	glacial lacustrine	plain	flat	Silty Clay							TRUE	31	0	6	C	65	28	40		BM	
Hope Bay Belt	D49	20-Aug-10	DP, RM, DJ	209, 210	13	7557321	430856	3	250	19	toe	glacial lacustrine	slope	soilfluct	Silty Clay							TRUE	58	0	4	C	80	60	15	BL and DH	BL	
Hope Bay Belt	D50	20-Aug-10	DP, RM, DJ	212, 213	13	7528679	435378	7	050	82	mid-slope	glacial lacustrine	slope	hummocky	Silt Loam							TRUE	55	0	6	C	66	89	30		TM	
Hope Bay Belt	D51	20-Aug-10	DP, RM, DJ	215, 216	13	7528476	435550	3	070	84	lower	moraine	slope	frost boils/soilfluct	Sandy							FALSE		35-70%	2	B	50	1	2		DH	
Hope Bay Belt	D52	20-Aug-10	DP, RM, DJ	218, 219	13	7528231	435710	2	variable	77	lower	glacial lacustrine	plain	hummocky	Silty Clay							TRUE	65	0	6	C	66	95	40		TM	
Hope Bay Belt	D53	20-Aug-10	DP, RM, DJ	221, 222	13	7527977	435625	2	-	91	depression	bedrock	ridge crest	br. outcrop	Loamy Sand							FALSE		35-70%	1	B	28	60	14	RO and CL	CL	
Hope Bay Belt	D54	20-Aug-10	DP, RM, DJ	224, 225	13	7527892	435410		999	83	level	glacial lacustrine	plain	frost boils/polygon		Mesic	80	5			5	FALSE		0	7	B	15	72	10		PG	
Hope Bay Belt	D55	21-Aug-10	DP, RM, DJ	227, 228	13	7534463	436373	5	-	78	depression	bedrock	ridge crest	br. outcrop		Humic	30		10			FALSE		0	2	C	92	1	8	DH and RO	DH	
Hope Bay Belt	D56	21-Aug-10	DP, RM, DJ	230, 231	13	7534544	436530	0	999	60	level	glacial lacustrine	plain	mounded	Silty Clay							TRUE	33	0	7	B	40	100	1		WM	
Hope Bay Belt	D57	21-Aug-10	DP, RM, DJ	233, 234	13	7534702	436768	10	190	70	toe	glacial lacustrine	slope	frost boils	Silty Clay							TRUE	55	0	6	C	88	50	20		TM	
Hope Bay Belt	D58	21-Aug-10	DP, RM, DJ	236, 237	13	7534736	437104	0	999	75	level	glacial lacustrine	plain	flat	Silty Clay	Fibric						TRUE	50	0	7	C	60	99	50		WM	
Hope Bay Belt	D59	22-Aug-10	DP, RM, DJ	239, 240	13	7494897	445959	5	236	136		moraine	slope	frost boils	Sandy			5				FALSE		20-35%	2	B	72	37	10		SH	
Hope Bay Belt	D60	22-Aug-10	DP, RM, DJ	243, 244	13	7495148	445545	30	260	118	upper	colluvium	slope	br. outcrop	Silt Loam							FALSE		0	5	D	96	45	1		DW	
Hope Bay Belt	D61	22-Aug-10	DP, RM, DJ	246, 247	13	7495180	445242	10	250	93	lower	glacial lacustrine	slope/stream	hummocky/soilfluct	Silt Loam							FALSE		0	6	C	97	95	15	TM and RW	TM	
Hope Bay Belt	D62	23-Aug-10	DP, RM, DJ	249, 250	13	7500407	445021	5	variable	125	depression	moraine	slope	frost boils	Sandy							FALSE		35-70%	3	B	71	3	30		BL	
Hope Bay Belt	D63	23-Aug-10	DP, RM, DJ	252, 253	13	7500331	444873	5	variable	125		weathered bedrock	ridge crest	br. outcrop	Silt Loam							FALSE		20-35%	0	B	10	1	60		BF	
Hope Bay Belt	D64	23-Aug-10	DP, RM, DJ	255, 256	13	7500198	444237	0	-	111	level	moraine	plain	frost boils	Sandy Loam							FALSE		20-35%	3	B	92	11	25		BL	
Hope Bay Belt	D65	23-Aug-10	DP, RM, DJ	258, 259	13	7500774	443575	10	250	95	lower	colluvial	slope	frost boils/soilfluct	Sandy Loam							FALSE		20-35%	5	C	70	1	51		BL	
Hope Bay Belt	D66	23-Aug-10	DP, RM, DJ	261, 262	13	7500640	443251	10	050	88	lower	colluvial	slope	soilfluct	Sandy Loam							TRUE	85	<20%	5	C	88	10	40		BL	
Hope Bay Belt	D67	23-Aug-10	DP, RM, DJ	264, 265	13	7500507	442872	10	variable	113	toe	glacial lacustrine	slope	hummocky	Silt Loam							TRUE	67	0	4	C	18	75	5		TM	
Hope Bay Belt	D68	23-Aug-10	DP, RM, DJ	267, 268	13	7500507	442470	5	variable	113	depression	moraine	slope	hummocky	Loamy Sand						2	TRUE	75	<20%	6	C	53	75	60		BL	
Hope Bay Belt	D69	23-Aug-10	DP, RM, DJ	270, 271	13	7500369	441878	5	270	85	lower	moraine	slope	hummocky/soilfluct	Sandy Loam							FALSE		0	4	C	85	55	2		BL	
Hope Bay Belt	D70	23-Aug-10	DP, RM, DJ	275, 276	13	7500063	441289	2	W	72	level	moraine	plain	hummocky	Sandy Loam							TRUE	60	0	4	C	85	5	70		BM	
Hope Bay Belt	D71	24-Aug-10	DP, RM, DJ	278, 279	13	7505185	443663	5	276	82	toe	moraine	slope	hummocky/frost boils/boulders	Loamy Sand							FALSE		20-35%	4	C	100	2	6		BL	
Hope Bay Belt	D72	24-Aug-10	DP, RM, DJ	281, 282	13	7505467	443686	5	variable	68	level	glacial lacustrine	slope	hummocky/frost boils	Silt Loam							TRUE	60	0	4	C	90	80	15		TM	
Hope Bay Belt	D73	24-Aug-10	DP, RM, DJ	284, 285	13	7506162	443756	10	variable	88	crest	aeolian	plateau/ridge crest	br. Outcrop/boulders	Silt Loam		5		35			FALSE		35-70%	1	B	36	55	5		DH	
Hope Bay Belt	D74	24-Aug-10	DP, RM, DJ	287, 288	13	7506660	444891	10	270	104	lower	moraine	slope	frost boils/br. Outcrop	Loamy Sand		2					FALSE		35-70%	2	B	87	0	20		DH	
Hope Bay Belt	D75	24-Aug-10	DP, RM, DJ	290, 291	13	7506676	444448	3	variable	102	mid-slope	moraine	slope	soilfluct	Loamy Sand							FALSE		<20%	5	C	51	22	25		BL	
Hope Bay Belt	D76	24-Aug-10	DP, RM, DJ	293, 294	13	7507620	443987	5	340	84	toe	glacial fluvial	slope	hummocky	Sandy Loam							FALSE		<20%	5	C	55	65	50		TM	
Hope Bay Belt	D77	24-Aug-10	DP, RM, DJ	297, 298	13	7507831	443891	0	999	81	level	glacial lacustrine	plain	flat	Silty Clay						1	TRUE	55	0	6	C	85	60	60		TM	
Hope Bay Belt	D78	25-Aug-10	DP, RM, DJ	301, 302	13	7510516	443627	15	310	101	crest	glacial fluvial	esker	mounded	Sandy							FALSE		>70%	1	B	6	20	2	CL and ES	CL	
Hope Bay Belt	D79	25-Aug-10	DP, RM, DJ	304, 305	13	7511068	443938	0	999	82	level	glacial lacustrine	stream	flat	Silty Clay	Mesic						FALSE		0	6	D	0	50	100	FP and RW	FP	
Hope Bay Belt	D80	25-Aug-10	DP, RM, DJ	307, 308	13	7511146	443514	2	-	86	level	glacial lacustrine	plain	hummocky	Silty Clay						1	TRUE	80	0	6	C	60	100	2			

Appendix 8b. 2010 Wetland Field Data

Project Name	Ground Plot #	Visual Plot #	Surveyor	Date	Photos	UTM Zone	Northing	Easting	Aspect	Elevation (m)	Slope (%)	Moisture Regime	Hydrodynamic Index	Soil Nutrient Regime	Meso Slope Position	Hydrogeomorphic Position	Mineral Soils	Mineral Soil Texture	Moisture Subclass Organic Soil	Organic Soil Texture	Horizon Thickness	Rooting Depth	Rooting Type	Von Post	Coarse Fragment Content	Water Colour	pH	Conductivity	Open Water %	
Hope Bay Belt	W001	-	NB, BG	24/07/10	1175-1191	13	7558531	433107	134	28	3	W	St	C	Level	Basins & Hollows	Poorly	Clayey	Aqueous	-	-	1	SiCL	-	-	Blue-Green Clear	5	91	<5%	
Hope Bay Belt	W002	-	NB, BG	24/07/10	1196-1223	13	7559766	432323	240	40	3	VW	St	C	Mid slope	Seepage Slopes	Very Poorly	Clayey	Aqueous	Mesic	10	10	Clay	4	-	Tea Coloured	7	406	5	
Hope Bay Belt	W003	-	NB, BG	25/07/10	1236-1280	13	7546736	438080	210	39	2	VW	St	C	Toe	Ponds & Potholes	Very Poorly	Clayey	-	-	-	3	Clay	-	-	Blue-Green Clear	6.3	140	55	
Hope Bay Belt	W004	-	NB, BG	25/07/10	1282-1315	13	7546930	437149	-	37	3	W	St	C	Level	Basins & Hollows	Very Poorly	Clayey	Peraquic	Mesic	-	25	Water	4	-	Tea Coloured	6.6	90	-	
Hope Bay Belt	W005	-	NB, BG	25/07/10	1320-1342	13	7546420	436737	-	40	2	-	SL	C	Mid slope	-	Poorly	Clayey	Aqueous	Fibric	15	15	-	3	-	Tea Coloured	6.6	88	10	
Hope Bay Belt	W006	-	NB, BG	25/07/10	1346-1363	13	7545980	436225	-	33	-	M	-	C	Level	Basins & Hollows	Imperfectly	Clayey	Peraquic	Mesic	25	25	SiCL	4	-	Tea Coloured	6.3	120	<5%	
Hope Bay Belt	W007	-	NB, BG	25/07/10	1365-1390	13	7544865	437582	-	47	-	VW	St	C	Level	Basins & Hollows	Poorly	Clayey	Aqueous	Fibric	20	20	SiCL	3	-	Tea Coloured	-	-	-	
Hope Bay Belt	W008	-	NB, BG	26/07/10	1405-1442	13	7545225	435688	-	32	-	VW	Sl	C	Depression	Ponds & Potholes	Very Poorly	Clayey	-	Mesic	18	33.5	-	4	<20%	Tea Coloured	-	90	90	
Hope Bay Belt	W009	-	NB, BG	27/07/10	1538-1563	13	7545399	435745	-	28	-	VW	SL-ST	C	Depression	-	Very Poorly	-	-	Mesic	16	42	Permafrost	4	-	Tea Coloured	6.5	209	20	
Hope Bay Belt	W010	-	NB, BG	27/07/10	1580-1609	13	7543768	436289	-	53	-	VW	ST-SL	C	Depression	-	Very Poorly	Clayey	Aqueous	Fibric	19	19	Clay	3	-	Green-Brown Clear	-	100	35	
Hope Bay Belt	W011	-	NB, BG	27/07/10	1636-1675	13	7543750	437000	110	28	3	VW	-	B	Level	Basins & Hollows	Poorly	Loamy	Aquic	Fibric	15	15	Clay	3	-	-	-	0	0	
Hope Bay Belt	W012	-	NB, BG	27/07/10	1676-1706	13	7544291	436526	500	46	3	VW	SL	D	Depression	Ponds & Potholes	Very Poorly	Loamy	Aqueous	Mesic	15	15	-	4	-	Tea Coloured	5.5	90	40	
Hope Bay Belt	W013	-	NB, BM	28/07/10	1782-1820	13	7543055	434532	-	44	-	VW	St	C	Level	-	Very Poorly	Clayey	Aqueous	Mesic	20	20	Clay	4	<20%	Tea Coloured	5.6	100	5	
Hope Bay Belt	W014	-	NB, BM	28/07/10	1835-1870	13	7541292	434765	-	53	-	VW	SL	C	Depression	-	Very Poorly	Loamy	Aqueous	Mesic	16	16	Soil Type	4	<20%	Tea Coloured	6.1	73	20	
Hope Bay Belt	W015	-	NB, BM	28/07/10	1871-1921	13	7542304	431874	-	41	-	VW	St	Very Wet	Depression	Ponds & Potholes	-	-	Aqueous	Mesic	20	20	Perma	4	<20%	Tea Coloured	6.3	73	55	
Hope Bay Belt	W016	-	NB, DA	29/07/10	1972-1993	13	7541882	434068	-	31	-	VW	SL	C	Level	Basins & Hollows	Very Poorly	Clayey	Aqueous	Fibric	8	8	Clay	3	-	Tea Coloured	6.5	153	40	
Hope Bay Belt	W017	-	NB, DA	29/07/10	1994-2031	13	7538199	434917	10	-	3	VW	SL	C	Level	Basins & Hollows	Very Poorly	Clayey	Aqueous	Fibric	28	28	Clayey	3	<20%	-	6.3	106	90	
Hope Bay Belt	W018	-	NB, DA	29/07/10	2045-2084	13	7543081	434739	-	38	-	VW	SL	D	Depression	Ponds & Potholes	Very Rapidly	Silty	Aqueous	Fibric	24	24	SIL	3	-	Tea Coloured	6.3	94	45	
Hope Bay Belt	W019	-	NB, DA	30/07/10	2091-2130	13	7532462	435215	-	75	-	VW	St	C	Depression	Basins & Hollows	Very Poorly	Clayey	Aqueous	Fibric	-	15	Clayey	3	-	Tea Coloured	6.1	111	30	
Hope Bay Belt	W020	-	NB, DA	30/07/10	2131-2176	13	7530329	435601	-	91	-	VW	St	C	Depression	Basins & Hollows	Poorly	-	Peraquic	Mesic	35	35	0	5	-	Green-Brown Clear	5.5	109	-	
Hope Bay Belt	W021	-	NB, DA	30/07/10	2178-2210	13	7527877	436898	-	99	-	VW	St	D	Depression	Ponds & Potholes	Very Rapidly	-	Aqueous	Mesic	45	30	-	5	-	Green-Brown Clear	7.4	154	70	
Hope Bay Belt	W022	-	NB, DA	30/07/10	2212-2249	13	7526697	437442	-	83	-	VW	St	D	Depression	Ponds & Potholes	Very Poorly	-	Aqueous	Mesic	34	35	Water	4	-	Tea Coloured	7	242	70	
Hope Bay Belt	W023	-	NB, DA	30/07/10	2250-2295	13	7523853	437918	-	89	4	VW	St	-	Depression	Seepage Slopes	Very Poorly	Loamy	Aqueous	Mesic	19	19	Soil Type	4	-	Tea Coloured	6.5	180	<5%	
Hope Bay Belt	W024	-	NB, JA	01/08/10	2300-2323	13	7520008	438277	-	92	-	-	-	-	Level	Basins & Hollows	Poorly	-	-	-	L5	L5	-	-	-	-	-	-	-	-
Hope Bay Belt	W025	-	NB, JA	02/08/10	013-017	13	7515762	439350	-	96	-	W	-	C	Depression	Basins & Hollows	Very Poorly	Loamy	Peraquic	Mesic	10	10	SC	5	-	-	-	-	-	-
Hope Bay Belt	W026	-	NB, KI	02/08/10	2405-2439	13	7502555	441360	30	88	3	VW	St	C	Lower slope	-	Very Poorly	Clayey	Aqueous	Mesic	25	25	-	4	-	Green-Brown Clear	6	73	-	
Hope Bay Belt	-	W026b	NB, KI	02/08/10	2440-2457	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	W026c	NB	02/08/10	2458-2476	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	W027	-	NB, KI	02/08/10	2477-2517	13	7503024	446245	310	125	5	W	St	C	Mid slope	Seepage Slopes	Poorly	Loamy	Peraquic	Mesic	15	15	-	4	-	Tea Coloured	6	127	-	
Hope Bay Belt	W028	-	NB	03/08/10	2518-2545	13	7502880	447763	-	118	-	-	-	-	Level	Basins & Hollows	Very poorly	Clayey	-	-	-	-	-	-	<20%	Tea Coloured	4.5	46	<5%	
Hope Bay Belt	W029	-	NB	03/08/10	2546-2573	13	7503251	447387	-	116	2	M	St	B	Level	-	-	-	-	-	-	-	-	-	-	-	6	35	0	
Hope Bay Belt	W030	-	NB	03/08/10	2574-2598	13	7502953	447263	320	121	4	3	-	B	Lower slope	-	Mod. Well	Loamy	-	-	-	-	<1	-	-	<20%	-	-	-	-
Hope Bay Belt	W031	-	NB	03/08/10	2599-2623	13	7503428	442936	-	69	-	VW	St	C	Depression	Ponds & Potholes	Very poorly	Clayey	Aqueous	Fibric	10	10	SiCL	3	<20%	Tea Coloured	6.5	180	45	
Hope Bay Belt	W032	-	NB	03/08/10	2624-2640	13	7503604	442900	-	71	-	VW	St	C	Level	Basins & Hollows	Very poorly	-	Aqueous	-	-	1	Clay	-	-	Tea Coloured	5.5	88	15	
Hope Bay Belt	W033	-	NB	04/08/10	2647-2679	13	7509865	444994	-	86	-	VW	St	C	Mid slope	Basins & Hollows	Very poorly	Clayey	-	-	2	<2	Clay	-	<20%	Green-Brown Clear	4.5	47	4	
Hope Bay Belt	W034	-	NB	04/08/10	2680-2715	13	7508472	445067	-	84	-	-	-	-	Level	-	Imperfectly	Clayey	-	-	2	2	Soil Type	-	-	-	-	5.5	82	-
Hope Bay Belt	W035	-	NB	04/08/10	2745-2763	13	7509353	445712	-	94	-	VW	St	C	Depression	Basins & Hollows	Very poorly	Clayey	Aqueous	-	20	20	Clay	4	-	Tea Coloured	4.5	54	5	
Hope Bay Belt	W036	-	NB	04/08/10	657-677	13	7508268	445878	-	102	-	VW	St	C	Depression	Basins & Hollows	Very poorly	Clayey	Aqueous	Mesic	18	18	SiC	4	-	Tea Coloured	5	63	<5%	
Hope Bay Belt	W037	-	NB	04/08/10	678-702	13	7507013	444618	360	84	4	VW	Sl	-	Lower slope	Basins & Hollows	Well	Loamy	-	-	18	1	O	-	<20%	Tea Coloured	5	78	-	
Hope Bay Belt	W038	-	NB	04/08/10	706-732	13	7506497	445538	290	100	3	VW	St	C	Mid slope	Basins & Hollows	Very poorly	Clayey	Aqueous	Humic	21	21	-	7	<20%	Tea Coloured	5.5	65	<5%	
Hope Bay Belt	W039	-	NB	05/08/10	2764-2784	13	7506019	444566	-	88	2	VW	St	C	Depression	Basins & Hollows	Very poorly	Clayey	Aqueous	-	14	14	Water	4	<20%	Green-Brown Clear	5	82	<5%	
Hope Bay Belt	W040	-	NB	05/08/10	2818-2837	13	7504688	443219	310	72	4	VW	St	C	Mid slope	-	Very poorly	Clayey	Aqueous	-	15	15	Clay	4	<20%	-	5	74	0	
Hope Bay Belt	W041	-	NB	05/08/10	2838-2867	13	7057359	446507	-	104	-	VW	St	C	Depression	Basins & Hollows	Very poorly	Loamy	Aqueous	Mesic	15	15	-	6	<20%	Tea Coloured	5	65	0	
Hope Bay Belt	W042	-	NB	05/08/10	2903-2922, 755-783	13	7511001	441601	-	86	-	VW	St	C	Level	Basins & Hollows	Very poorly	-	Aqueous	-	-	26	R	3	-	Tea Coloured	5	94	0	
Hope Bay Belt	W043	-	NB	05/08/10	2925-2944, 766-819	13	7513547	440329	-	83	4	-	-	-	Mid slope	Basins & Hollows	-	Loamy	Subaquic	Mesic	25	25	-	4	<20%	-	-	-	-	
Hope Bay Belt	W044	-	NB	06/08/10	2969-2992	13	7503799	445868	-	121	-	VW	St	C	Depression	Basins & Hollows	Very poorly	Loamy	-	-	-	2	Water	-	<20%	Tea Coloured	6	78	<5%	
Hope Bay Belt	W045	-	NB	06/08/10	2993-3016	13	7508208	444120	270	82	4	VW	St	C	Mid slope	Basins & Hollows	Very poorly	-	Aqueous	Mesic	19	19	Rock	4	-	Tea Coloured	6	149	0	
Hope Bay Belt	W046	-	NB	06/08/10	2993-3016	13	7542320	434907	350	54	4	-	-	B	Level	Basins & Hollows	-	Clayey	-	Mesic	15	15	Clay	5	-	-	-	-	-	-
Hope Bay Belt	W047	-	NB	07/08/10	3052-3104	13	7549411	433545	-	54	-	VW	St	C	Depression	Seepage Slopes	Very poorly	Clayey	Aqueous	Mesic	19	19	Clay	4	-	Tea Coloured	6.5	110	-	
Hope Bay Belt	-	W047b	NB	07/08/10	3086-3096	13	7549464	433581	-	60	-	VW	St	C	Depression	Ponds & Potholes	Very poorly	Clayey	Aqueous	-	-	-	-	-	-	Tea Coloured	6	-	30	
Hope Bay Belt	W048	-	NB	07/08/10	3133-3156	13	7548781	434033	-	44	-	-	-	-	Level	Seepage Slopes	Poorly	Clayey	Aquic	Fibric	6	6	SC	2	-	-	4.5	-	-	-
Hope Bay Belt	-	W048b	NB	07/08/10	3108-3132	13	7548792	434083	-	48	-	-	-	-	Level	Basins & Hollows	Well	-	-	-	29	29	-	-	-	-	4.5	-	5	
Hope Bay Belt	W049	-	NB	07/08/10	3164-3187	13	7549422	436207	-	24	-	VW	St	C	Level	Ponds & Potholes	Very poorly	-	Aqueous	Fibric	23	23	-	3	-	Tea Coloured				

Appendix 8b. 2010 Wetland Field Data

Project Name	Ground Plot #	Visual Plot #	Surveyor	Date	Photos	UTM Zone	Northing	Easting	Aspect	Elevation (m)	Slope (%)	Moisture Regime	Hydrodynamic Index	Soil Nutrient Regime	Meso Slope Position	Hydrogeomorphic Position	Mineral Soils	Mineral Soil Texture	Moisture Subclass Organic Soil	Organic Soil Texture	Horizon Thickness	Rooting Depth	Rooting Type	Von Post	Coarse Fragment Content	Water Colour	pH	Conductivity	Open Water %
Hope Bay Belt	-	REC1	NB	08/06/10	-	13	7502999.98	440900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	REC2	NB	08/06/10	-	13	7504749.98	443000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	REC3	NB	08/06/10	-	13	7503499.98	443000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V10	NB	07/27/10	1519-1533	13	7545914.67	435699.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V11	NB	07/27/10	1568-1571	13	7543284.38	436131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V12	NB	07/27/10	1572-1579	13	7543559.03	436122.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V13	NB	07/27/10	1610-1616	13	7543775.03	436377.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V14	NB	27-JUL-10 1		13	7543764.05	436615.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V15	NB	07/27/10	-	13	7544743.5	436703.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V16	NB	07/27/10	1754 to 1762	13	7548731.61	435621.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V17	NB	07/27/10	1754 to 1762	13	7551173.04	435651.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V18	NB	07/27/10	1754 to 1762	13	7552574.67	434919.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V19	NB	07/28/10	-	13	7541367.02	434477.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V2-	NB	07/25/10	-	13	7546364.9	436702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V20	NB	07/28/10	1914-1915	13	7541299.18	434603.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V21	NB	07/28/10	1916-1919	13	7542198.55	431868.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V23	NB	07/28/10	-	13	7542047.21	431955.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V24	NB	07/28/10	-	13	7541871.77	432061.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V25	NB	07/29/10	-	13	7538084.37	434924	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V27	NB	07/30/10	2269-2272	13	7523868.3	437862.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V28	NB	08/01/10	-	13	7520291.67	438236.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V29	NB	08/01/10	-	13	7520338.39	438262.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V32	NB	08/04/10	-	13	7508670.47	445206.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V33	NB	08/04/10	-	13	7508745.96	445265.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V34	NB	08/04/10	-	13	7508803.21	445303.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V35	NB	08/04/10	-	13	7509003.61	445423.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V36	NB	08/04/10	-	13	7509094.76	445502.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V37	NB	08/04/10	-	13	7509226.39	445606.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V38	NB	08/04/10	2763-2762	13	7508194.19	445784.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V39	NB	08/05/10	-	13	7506009.31	444616.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V4	NB	07/26/10	-	13	7545244.71	435714.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V40	NB	08/05/10	-	13	7505924.52	444808.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V41	NB	08/05/10	-	13	7507276.84	446518.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V42	NB	08/05/10	-	13	7502766.38	446717.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V43	NB	08/05/10	-	13	7503158.28	446420.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V44	NB	08/05/10	-	13	7503140.16	446222.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V5	NB	07/26/10	-	13	7545328.14	435728.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V6	NB	07/26/10	-	13	7545348.31	435724.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V7	NB	07/26/10	-	13	7545443.13	435717.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	V9	NB	07/26/10	-	13	7545617.21	435641.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix 8b. 2010 Wetland Field Data

Project Name	Ground Plot #	Visual Plot #	Surveyor	Date	Depth to Water	Structural Stage	W1 (%)	WL1 Class	WL1 Association	WL1 Form	Map Unit1	WL2 (%)	WL2 Class	WL2 Association	WL2 Form	Map Unit2	WL3 (%)	WL3 Class	WL3 Association	WL3 Form	Map Unit3	Shrub (%)	Forb (%)	Bryophyte (%)
Hope Bay Belt	W001	-	NB, BG	24/07/10	0	2b	100	Fen	Willow - Cotton Grass	horizontal fen	TM (rich)	-	-	-	-	-	-	-	-	-	-	30	60	25
Hope Bay Belt	W002	-	NB, BG	24/07/10	0	2b	100	Fen	Cotton grass	horizontal fen	WM	-	-	-	-	-	-	-	-	-	-	4	45	5
Hope Bay Belt	W003	-	NB, BG	25/07/10	30	2	55	Shallow Open Water	Mares tail	-	-	45	marsh	Sedge	lacustrine marsh	EM	-	-	-	-	-	7	50	50
Hope Bay Belt	W004	-	NB, BG	25/07/10	0	2	100		Cotton grass	lowland polygon fen	WM	-	-	-	-	-	-	-	-	-	-	35	70	12
Hope Bay Belt	W005	-	NB, BG	25/07/10	-	2	100	Fen	Cotton grass	horizontal fen	TM	-	-	-	-	-	-	-	-	-	-	43	40	0
Hope Bay Belt	W006	-	NB, BG	25/07/10	0	2b/3a	40	Fen	Cotton grass - Willow - Sedge	horizontal fen	TM	30	fen	-	lowland polygon fen	WM	30	bog	-	lowland polygon bog	BM	70	30	5
Hope Bay Belt	W007	-	NB, BG	25/07/10	-	2b/3a	60	Fen	Cotton grass	horizontal fen	TM	40	fen	-	lowland polygon fen	WM	-	-	-	-	-	<5	15	5
Hope Bay Belt	W008	-	NB, BG	26/07/10	0	2b	90	Shallow Open Water	Mares tail	horizontal fen	-	10	marsh	Water sedge	lacustrine marsh	EM	-	-	-	-	-	2	55	30
Hope Bay Belt	W009	-	NB, BG	27/07/10	0	2	60		Water sedge - Cotton grass	lowland polygon fen	WM	20	fen	Willow	lowland polygon fen	TM	20	bog	-	lowland polygon bog	BM	T	55	10
Hope Bay Belt	W010	-	NB, BG	27/07/10	0	2	50	Marsh	Water sedge	lacustrine marsh	EM	50	fen	Cotton grass	horizontal fen	WM	-	-	-	-	-	25	80	8
Hope Bay Belt	W011	-	NB, BG	27/07/10	2	2/3a	70	Bog	Sedge - Dwarf labrador tea	lowland polygon bog	BR	30	fen	Cotton grass	lowland polygon fen	WM	-	-	-	-	-	25	35	35
Hope Bay Belt	W012	-	NB, BG	27/07/10	0	2c/3a	60	Marsh	Water sedge	lacustrine marsh	EM	30	Shallow Open Water	Mare's tail	-	-	10	bog	-	lowland polygon bog	BR	3	60	10
Hope Bay Belt	W013	-	NB, BM	28/07/10	0	2b	60	Fen	Water sedge - Cotton grass	lowland polygon fen	WM	20		Open water	-	-	20	bog	-	peat mound bog	BR	20	60	20
Hope Bay Belt	W014	-	NB, BM	28/07/10	0	-	80	Fen	Sedge	lowland polygon fen	WM	20	-	-	lowland polygon bog	BM	-	-	-	-	-	30	75	18
Hope Bay Belt	W015	-	NB, BM	28/07/10	0	2	50	Marsh	Sedge	lacustrine marsh	EM	30	Shallow Open Water	Open water	-	-	20	fen	-	lowland polygon fen	WM	5	45	50
Hope Bay Belt	W016	-	NB, DA	29/07/10	0	2	80	Fen	Sedge	lowland polygon fen	WM	10		Sedge	lacustrine marsh	EM	10	bog	-	lowland polygon bog	BM	8	45	55
Hope Bay Belt	W017	-	NB, DA	29/07/10	0	2c	70	Fen	-	lowland polygon fen	WM	30	bog	-	lowland polygon bog	BR	-	-	-	-	-	5	30	15
Hope Bay Belt	W018	-	NB, DA	29/07/10	0-2	2c	40	Marsh	Sedge - Rush	lowland polygon fen	WM	30	bog	-	lowland polygon bog	BM	30	marsh	-	lacustrine marsh	EM	0	30	5
Hope Bay Belt	W019	-	NB, DA	30/07/10	0	2	70	Fen	Cotton grass - Willow - Sedge	lowland polygon fen	WM	30	bog	-	lowland polygon bog	BM	-	-	-	-	-	20	45	10
Hope Bay Belt	W020	-	NB, DA	30/07/10	1	2	70	Fen	Sedge - Rush	lowland polygon fen	WM	30	bog	-	palsa bog	BR	-	-	-	-	-	6	25	55
Hope Bay Belt	W021	-	NB, DA	30/07/10	0	2 and 2b	40	fen	Water sedge	lowland polygon fen	WM	40	bog	-	peat mound bog	BR	20	marsh	-	lacustrine marsh	EM	T	35	30
Hope Bay Belt	W022	-	NB, DA	30/07/10	0	2b	70	fen	Water sedge	lowland polygon fen	WM	30	bog	-	peat mound bog	BR	-	-	-	-	-	2	25	35
Hope Bay Belt	W023	-	NB, DA	30/07/10	0	2 and 3a	80	Fen	Water sedge - Cotton grass	lowland polygon fen	WM	20	bog	-	peat mound bog	BR	-	-	-	-	-	60	30	3
Hope Bay Belt	W024	-	NB, JA	01/08/10	-	3a	60	Bog	Dwarf birch - Dwarf labrador tea	lowland polygon bog	BM	40	fen	Cotton grass	lowland polygon fen	WM	-	-	-	-	-	85	5	40
Hope Bay Belt	W025	-	NB, JA	02/08/10	-	2b	70	bog	Dwarf birch - Dwarf labrador tea	lowland polygon bog	BR	30	fen	-	lowland polygon fen	WM	-	-	-	-	-	25	35	8
Hope Bay Belt	W026	-	NB, KI	02/08/10	0	2b	70	Fen	Sedge - Dwarf labrador tea	lowland polygon fen	WM	30	bog	-	palsa bog	BM	-	-	-	-	-	15	25	3
Hope Bay Belt	-	W026b	NB, KI	02/08/10	-	3a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	-	W026c	NB	02/08/10	-	-	80	Marsh	Water sedge	-	EM	20	fen	Cotton grass	horizontal fen	-	-	-	-	-	-	4	30	5
Hope Bay Belt	W027	-	NB, KI	02/08/10	0	2b	100	Fen	Sedge	horizontal fen	WM	-	-	-	-	-	-	-	-	-	-	2	14	8
Hope Bay Belt	W028	-	NB	03/08/10	70	3a (2b)	100	Bog	Dwarf birch - Dwarf labrador tea	lowland polygon bog	-	-	-	-	-	-	-	-	-	-	-	19	10	9
Hope Bay Belt	W029	-	NB	03/08/10	-	3a(1)	100	tundra	-	-	BL	-	-	-	-	-	-	-	-	-	-	10	5	30
Hope Bay Belt	W030	-	NB	03/08/10	>55	3a(1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	0	25
Hope Bay Belt	W031	-	NB	03/08/10	0	2b	50	Fen	Water sedge	lowland polygon fen	WM	40	bog	-	palsa bog	BR	10	marsh	-	lacustrine marsh	EM	3	20	5
Hope Bay Belt	W032	-	NB	03/08/10	0	2b/3a	50	Fen	Water sedge	lowland polygon fen	WM	40	bog	-	peat mound bog	BR	10	marsh	-	lacustrine marsh	EM	8	15	2
Hope Bay Belt	W033	-	NB	04/08/10	5	3a (2b)	100	Bog	Cotton grass - Willow - Sedge	peat mound bog	BM	-	-	-	-	-	-	-	-	-	-	40	18	30
Hope Bay Belt	W034	-	NB	04/08/10	-	3a (2b)	60	Bog	Dwarf birch - Dwarf labrador tea	peat mound bog	BR	40	fen	Cotton grass - sedge	lowland polygon fen	WM	10	Shallow Open Water	Open water	-	-	30	18	6
Hope Bay Belt	W035	-	NB	04/08/10	0	2c	70	Bog	Cotton grass - Peat-moss	lowland polygon bog	BR	30	fen	Cotton grass - sedge	lowland polygon fen	WM	-		-	-	-	3	10	55
Hope Bay Belt	W036	-	NB	04/08/10	0	2b	100	Fen	Carex chor.	lowland polygon fen	WM	-	-	-	-	-	-	-	-	-	-	0	25	6
Hope Bay Belt	W037	-	NB	04/08/10	65	3a(1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hope Bay Belt	W038	-	NB	04/08/10	12	2b	70	bog	-	lowland polygon bog	BR	30	fen	Sedge - Rush	lowland polygon fen	WM	-	-	-	-	-	5	10	5
Hope Bay Belt	W039	-	NB	05/08/10	1	2b	80	Fen	Cotton grass	lowland polygon fen	WM	20	bog	-	peat mound bog	BR	-	-	-	-	-	3	15	5
Hope Bay Belt	W040	-	NB	05/08/10	0	2b	100	Fen	Water sedge - Cotton grass	horizontal fen	WM	-	-	-	-	-	-	-	-	-	-	3	12	0
Hope Bay Belt	W041	-	NB	05/08/10	0	2b	90	Fen	Water sedge - Cotton grass	horizontal fen	WM	10	fen	-	tussock tundra	TM	-	-	-	-	-	5	25	10
Hope Bay Belt	W042	-	NB	05/08/10	0	2c	100	Marsh	Water sedge	lacustrine marsh	EM	-	-	-	-	-	-	-	-	-	-	0	25	15
Hope Bay Belt	W043	-	NB	05/08/10	-	3a	60	Bog	Dwarf birch - Dwarf labrador tea	lowland polygon bog	BM	40	fen	Cotton grass	lowland polygon fen	WM	-	-	-	-	-	55	3	35
Hope Bay Belt	W044	-	NB	06/08/10	0	2b	80	Fen	Cotton grass	horizontal fen	TM	20	marsh	-	slope marsh	EM	-	-	-	-	-	1	25	5
Hope Bay Belt	W045	-	NB	06/08/10	0	2b	80	Fen	Water sedge - Cotton grass	lowland polygon fen	WM	20	bog	-	peat mound bog	BR	-	-	-	-	-	5	10	5
Hope Bay Belt	W046	-	NB	06/08/10	-	3a	100	tundra	Willow - Cotton Grass	tussock tundra	TM	-	-	-	-	-	-	-	-	-	-	35	10	15
Hope Bay Belt	W047	-	NB	07/08/10	0	-	60	Fen	Cotton grass - Sedge	horizontal fen	WM	30	Marsh	Water sedge - rush	slope marsh	EM	10	bog	Dwarf birch	lowland polygon bog	BM	3	15	2
Hope Bay Belt	-	W047b	NB	07/08/10	0	2c	100	Marsh	Water sedge	slope marsh	EM	-	-	-	-	-	-	-	-	-	-	0	15	3
Hope Bay Belt	W048	-	NB	07/08/10	-	1(3a)	70	Bog	Dwarf birch - Dwarf labrador tea	peat mound bog	BR	30	fen	-	lowland polygon fen	WM	-	-	-	-	-	10	15	45
Hope Bay Belt	-	W048b	NB	07/08/10	> 40	3a(1)	100	Bog	Dwarf birch - Dwarf labrador tea	peat mound bog	BR	-	-	-	-	-	-	-	-	-	-	15	3	10
Hope Bay Belt	W049	-	NB	07/08/10	0	2c	60	Marsh	Carex chor.	slope marsh	EM	30	fen	-	horizontal fen	WM	10	bog	-	peat mound bog	BR	0	15	5
Hope Bay Belt	W050	-	NB	07/08/10	0	2c	70	Marsh	Carex chor.	basin marsh	EM	30	Shallow Open Water	Marsh cinquefoil	-	-	-	-	-	-	-	0	15	4
Hope Bay Belt	W051	-	NB	08/08/10	0	2b	70	Fen	Water sedge - Cotton grass	lowland polygon fen	WM	30		-	peat mound bog	BR	-	-	-	-	-	3	15	0
Hope Bay Belt	W052	-	NB	08/08/10	30	1(3a)	60	Bog	Cotton grass - Peat-moss	lowland polygon bog	BR	40	fen	Cotton grass	horizontal fen	WM	-	-	-	-	-	8	5	30

Appendix 8b. 2010 Wetland Field Data

Project Name	Ground Plot #	Visual Plot #	Surveyor	Date	Depth to Water	Structural Stage	W1 (%)	WL1 Class	WL1 Association	WL1 Form	Map Unit1	WL2 (%)	WL2 Class	WL2 Association	WL2 Form	Map Unit2	WL3 (%)	WL3 Class	WL3 Association	WL3 Form	Map Unit3	Shrub (%)	Forb (%)	Bryophyte (%)
Hope Bay Belt	-	REC1	NB	08/06/10	-																			
Hope Bay Belt	-	REC2	NB	08/06/10	-																			
Hope Bay Belt	-	REC3	NB	08/06/10	-																			
Hope Bay Belt	-	V10	NB	07/27/10	-	2		DH																
Hope Bay Belt	-	V11	NB	07/27/10	-	2		BM																
Hope Bay Belt	-	V12	NB	07/27/10	-	2b		WM	Carex															
Hope Bay Belt	-	V13	NB	07/27/10	-	3a		BI																
Hope Bay Belt	-	V14	NB	27-JUL-10	-	2		WM	Carex and Erio ang															
Hope Bay Belt	-	V15	NB	07/27/10	-	2	50	WM				30	WM	Erio Fen		Erio Fen	20	Dry shrub	Betula and Ledum					
Hope Bay Belt	-	V16	NB	07/27/10	-			see photos																
Hope Bay Belt	-	V17	NB	07/27/10	-			see photos																
Hope Bay Belt	-	V18	NB	07/27/10	-			see photos																
Hope Bay Belt	-	V19	NB	07/28/10	-	1	70	RO				20	Betula-Salix				10	DH						
Hope Bay Belt	-	V2-	NB	07/25/10	-			-																
Hope Bay Belt	-	V20	NB	07/28/10	-	2		WM																
Hope Bay Belt	-	V21	NB	07/28/10	-	2		WM	Carex															
Hope Bay Belt	-	V23	NB	07/28/10	-																			
Hope Bay Belt	-	V24	NB	07/28/10	-																			
Hope Bay Belt	-	V25	NB	07/29/10	-	2b		WM	Carex chor.															
Hope Bay Belt	-	V27	NB	07/30/10	-																			
Hope Bay Belt	-	V28	NB	08/01/10	-																			
Hope Bay Belt	-	V29	NB	08/01/10	-																			
Hope Bay Belt	-	V32	NB	08/04/10	-	2b		WM																
Hope Bay Belt	-	V33	NB	08/04/10	-	3a	70	BM and TM				30	Fen	Eriophorum		Eriophorur								
Hope Bay Belt	-	V34	NB	08/04/10	-	2b		TM																
Hope Bay Belt	-	V35	NB	08/04/10	-	a in moist depressions		RO																
Hope Bay Belt	-	V36	NB	08/04/10	-	2		WM																
Hope Bay Belt	-	V37	NB	08/04/10	-	1		RO																
Hope Bay Belt	-	V38	NB	08/04/10	-	1		RO																
Hope Bay Belt	-	V39	NB	08/05/10	-	a in moist depressions		RO																
Hope Bay Belt	-	V4	NB	07/26/10	-	2		EM																
Hope Bay Belt	-	V40	NB	08/05/10	-	2		TM																
Hope Bay Belt	-	V41	NB	08/05/10	-	1		RO																
Hope Bay Belt	-	V42	NB	08/05/10	-	a in moist depressions		RO																
Hope Bay Belt	-	V43	NB	08/05/10	-	1(3)		RO																
Hope Bay Belt	-	V44	NB	08/05/10	-																			
Hope Bay Belt	-	V5	NB	07/26/10	-	2		WM	Carex erio.															
Hope Bay Belt	-	V6	NB	07/26/10	-	2	50	EM				30	Fen-Erio				20	Shrubby						
Hope Bay Belt	-	V7	NB	07/26/10	-																			
Hope Bay Belt	-	V9	NB	07/26/10	-																			

Appendix 9

Occurrence and Distribution of Wetland Forms in the Local Study Area

Appendix 9. Occurrence and Distribution of Wetland Forms in the Local Study Area

Location	Plot	Primary Wetland Form or Ecosystem Unit	Secondary Wetland Form or Ecosystem Unit	Tertiary Wetland Form or Ecosystem Unit
Doris Camp				
	W001	horizontal fen	-	-
	W002	horizontal fen	-	-
	W046	tussock tundra	-	-
	W047	horizontal fen	slope marsh	lowland polygon bog
	W048	peat mound bog	lowland polygon fen	-
	W049	slope marsh	horizontal fen	peat mound bog
	W051	lowland polygon fen	peat mound bog	-
	W052	lowland polygon bog	horizontal fen	-
Mid Belt				
	W003	shallow open water	lacustrine marsh	-
	W004	lowland polygon fen	-	-
	W005	horizontal fen	-	-
	W006	horizontal fen	lowland polygon fen	lowland polygon bog
	W007	horizontal fen	lowland polygon fen	-
	W008	horizontal fen	lacustrine marsh	-
	W009	lowland polygon fen	lacustrine marsh	lowland polygon bog
	W010	lacustrine marsh	horizontal fen	-
	W011	lowland polygon bog	lowland polygon fen	-

Appendix 9. Occurrence and Distribution of Wetland Forms in the Local Study Area

Location	Plot	Primary Wetland Form or Ecosystem Unit	Secondary Wetland Form or Ecosystem Unit	Tertiary Wetland Form or Ecosystem Unit
	W012	lacustrine marsh	shallow open water	lowland polygon bog
	W013	lowland polygon fen	shallow open water	peat mound bog
	W014	lowland polygon fen	lowland polygon bog	-
	W015	lacustrine marsh	-	lowland polygon fen
	W016	lowland polygon fen	lacustrine marsh	lowland polygon bog
	W017	lowland polygon fen	lowland polygon bog	-
	W018	lowland polygon fen	lowland polygon bog	lacustrine marsh
	W019	lowland polygon fen	lowland polygon bog	-
	W020	lowland polygon fen	palsa bog	-
	W021	lowland polygon fen	peat mound bog	lacustrine marsh
	W022	lowland polygon fen	peat mound bog	-
	W023	lowland polygon fen	peat mound bog	-
	W024	lowland polygon bog	lowland polygon fen	-
	W050	basin marsh	shallow open water	-
Boston Camp				
	W025	lowland polygon bog	lowland polygon fen	-
	W026	lowland polygon fen	palsa bog	-
	W027	horizontal fen	-	-

Appendix 9. Occurrence and Distribution of Wetland Forms in the Local Study Area

Location	Plot	Primary Wetland Form or Ecosystem Unit	Secondary Wetland Form or Ecosystem Unit	Tertiary Wetland Form or Ecosystem Unit
	W028	lowland polygon bog	-	-
	W029	tussock meadow	-	-
	W030	dwarf birch- Labrador tea-lichen	-	-
	W031	lowland polygon fen	palsa bog	lacustrine marsh
	W032	lowland polygon fen	peat mound bog	lacustrine marsh
	W033	peat mound bog	-	-
	W034	peat mound bog	lowland polygon fen	-
	W035	lowland polygon bog	lowland polygon fen	-
	W036	lowland polygon fen	-	-
	W037	tussock tundra	seepage marsh	-
	W038	lowland polygon bog	lowland polygon fen	-
	W039	lowland polygon fen	peat mound bog	-
	W040	horizontal fen	-	-
	W041	horizontal fen	tussock tundra	-
	W042	lacustrine marsh	-	-
	W043	lowland polygon bog	lowland polygon fen	-
	W044	horizontal fen	slope marsh	-
	W045	lowland polygon fen	peat mound bog	-

- No form observed

Appendix 10

2010 Plant Species Identified during Field Surveys

Appendix 10. 2010 Plant Species Identified during Field Surveys

Scientific Name	Common Name	Lifeform Type
<i>Achillea</i> sp.	yarrow	forb
<i>Andromeda polifolia</i>	bog rosemary	forb
<i>Androsace septentrionalis</i>	fairy candelabra	forb
<i>Arctagrostis latifolia</i>	plow grass	gramminoid (grass)
<i>Arctoparmelia centrifuga</i>	rippled rockfrog	lichen
<i>Arctoparmelia</i> sp.	ring lichen	lichen
<i>Arctostaphylos alpina</i>	black bearberry	shrub
<i>Arctostaphylos rubra</i>	red bearberry	shrub
<i>Armeria maritima</i>	thrift	forb
<i>Arnica</i> sp.	arnica	forb
<i>Astragalus alpinus</i>	alpine milk-vetch	forb
<i>Astragalus</i> sp.	vetch species	forb
<i>Aulacomnium palustre</i>	glow moss	moss
<i>Aulacomnium turgidum</i>	mountain groove-moss	moss
<i>Barbilophozia</i> sp.	liverwort	moss
<i>Betula glandulosa</i>	dwarf birch	shrub
<i>Betula nana</i>	scrub birch	shrub
<i>Bistorta vivipara</i>	alpine bistort	forb
<i>Calamagrostis</i> sp.	reedgrass	gramminoid (grass)
<i>Calliergon giganteum</i>	giant water-moss	moss
<i>Caltha palustris</i>	yellow marsh-marigold	forb
<i>Carex albonigra</i>	two-toned sedge	gramminoid (sedge)
<i>Carex aquatilis</i>	water sedge	gramminoid (sedge)
<i>Carex bigelowii</i>	Bigelow's sedge	gramminoid (sedge)
<i>Carex chordorrhiza</i>	cordroot sedge	gramminoid (sedge)
<i>Carex limosa</i>	shore sedge	gramminoid (sedge)
<i>Carex nardina</i> var. <i>hepburnii</i>	Hepburn's sedge	gramminoid (sedge)
<i>Carex saxatilis</i>	russet sedge	gramminoid (sedge)
<i>Carex vaginata</i>	sheathed sedge	gramminoid (sedge)
<i>Carex membranacea</i>	fragile sedge	gramminoid (sedge)
<i>Carex fuliginosa</i> spp. <i>misandra</i>	short-leaved sedge	gramminoid (sedge)
<i>Carex rotundata</i>	round sedge	gramminoid (sedge)
<i>Carex rariflora</i>	looseflower alpine sedge	gramminoid (sedge)
<i>Cassiope tetragona</i>	four-angled mountain-heather	shrub
<i>Cassiope tetragona</i>	four-angled mountain-heather	forb
<i>Cerastium</i> sp.	chickweed	forb
<i>Cetraria cucullata</i>	furled paperdoll	lichen
<i>Cetraria nivalis</i>	ragged paperdoll	lichen
<i>Cladina</i> sp.	reindeer lichen	lichen
<i>Cladonia ecmocyna</i>	orange-foot cladonia	lichen
<i>Cladonia pyxidata</i>	pebbled pixie-cup	lichen
<i>Cladonia</i> sp.	clad lichen	lichen
<i>Cystopteris fragilis</i>	fragile fern	fern
<i>Dactylina arctica</i>	brown finger	lichen
<i>Dicranum elongatum</i>	dense heron`s-bill moss	moss

Appendix 10. 2010 Plant Species Identified during Field Surveys

Scientific Name	Common Name	Lifeform Type
<i>Drepanocladus aduncus</i>	common hook-moss	moss
<i>Drepanocladus revolvens</i>	limprichita moss	moss
<i>Drepanocladus uncinatus</i>	stickle moss	moss
<i>Dryas integrifolia</i>	arctic avens	shrub
<i>Dryopteris fragrans</i>	fragrant wood	Fern
<i>Empetrum nigrum</i>	crowberry	shrub
<i>Epilobium angustifolium</i>	fireweed	forb
<i>Epilobium latifolium</i>	broad-leaved willowherb	forb
<i>Equisetum arvense</i>	common horsetail	fern ally
<i>Equisetum fluviatile</i>	swamp horsetail	fern ally
<i>Eriophorum angustifolium</i>	narrow-leaved cotton-grass	gramminoid (sedge)
<i>Eriophorum callitrix</i>	arctic cotton-grass	gramminoid (sedge)
<i>Eriophorum scheuchzeri</i>	Scheuchzer's cotton-grass	gramminoid (sedge)
<i>Eriophorum scheuchzeri</i>	Scheuchzer's cotton-grass	gramminoid (sedge)
<i>Eriophorum vaginatum</i>	sheathed cotton-grass	gramminoid (sedge)
<i>Festuca altaica</i>	Altai fescue	gramminoid (grass)
<i>Festuca sp.</i>	fescue	gramminoid (grass)
<i>Flavocetraria cucullata</i>	curled snow	lichen
<i>Hedysarum mackenzii</i>	northern sweet-vetch	forb
<i>Hedysarum sp.</i>	sweet vetch	forb
<i>Hierochloa alpina</i>	alpine sweet	gramminoid (grass)
<i>Hippuris vulgaris</i>	common mare's-tail	forb
<i>Kalmia microphylla</i>	western bog-laurel	shrub
<i>Ledum palustre ssp. decumbens</i>	northern Labrador tea	shrub
<i>Lycopodium sp.</i>	clubmoss	Fern
<i>Orthilia secunda</i>	one-sided wintergreen	forb
<i>Oxyria digyna</i>	mountain sorrel	forb
<i>Oxytropis arctica</i>	arctic locoweed	forb
<i>Oxytropis maydelliana</i>	Maydell's locoweed	forb
<i>Papaver radicum</i>	arctic poppy	forb
<i>Pedicularis arctica</i>	arctic lousewort	forb
<i>Pedicularis capitata</i>	capitate lousewort	forb
<i>Pedicularis sudetica</i>	Sudeten lousewort	forb
<i>Peltigera aphthosa</i>	freckle pelt	lichen
<i>Peltigera sp.</i>	pelt lichen	lichen
<i>Petasites frigidus</i>	sweet coltsfoot	forb
<i>Petasites sagittatus</i>	arrow-leaved coltsfoot	forb
<i>Phleum pratense</i>	common timothy	gramminoid (grass)
<i>Pleurozium schreberi</i>	red-stemmed feathermoss	moss
<i>Poa sp.</i>	bluegrass	gramminoid (grass)
<i>Polytrichum strictum</i>	bog haircap moss	moss
<i>Potentilla nivea</i>	snow cinquefoil	forb
<i>Potentilla palustris</i>	marsh cinquefoil	forb
<i>Potentilla sp.</i>	cinquefoil	forb
<i>Ptilium sp.</i>	feathermoss	moss

Appendix 10. 2010 Plant Species Identified during Field Surveys

Scientific Name	Common Name	Lifeform Type
<i>Pyrola asarifolia</i>	pink wintergreen	forb
<i>Pyrola grandiflora</i>	arctic wintergreen	forb
<i>Racomitrium lanuginosum</i>	hoary rock-moss	moss
<i>Rhizocarpon sp.</i>	map lichen	lichen
<i>Rhododendron lapponicum</i>	Lapland rosebay	shrub
<i>Rhytidiopsis robusta</i>	pipecleaner moss	moss
<i>Rhytidium sp.</i>		moss
<i>Rubus arcticus</i>	dwarf nagoonberry	forb
<i>Rubus chamaemorus</i>	cloudberry	forb
<i>Salix arctica</i>	arctic willow	shrub
<i>Salix glauca</i>	grey-leaved willow	shrub
<i>Salix planifolia</i>	plane-leaved willow	shrub
<i>Salix pulchra</i>	teal-leaved willow	
<i>Salix reticulata</i>	net-veined willow	shrub
<i>Saxifraga cernua</i>	nodding saxifrage	forb
<i>Saxifraga nivalis</i>	alpine saxifrage	forb
<i>Saxifraga oppositifolia</i>	purple mountain	forb
<i>Saxifraga tricuspidata</i>	three-toothed saxifrage	forb
<i>Senecio atropurpureus</i>	purple-haired groundsel	forb
<i>Senecio congestus</i>	marsh fleabane	forb
<i>Senecio triangularis</i>	arrow-leaved groundsel	forb
<i>Shepherdia canadensis</i>	soopolallie	shrub
<i>Silene acaulis</i>	moss campion	forb
<i>Sphagnum sp.</i>	peat-moss	moss
<i>Stellaria sp.</i>	starwort	forb
<i>Stereocaulon foam</i>	lichen	lichen
<i>Taraxacum sp.</i>	dandelion	forb
<i>Thamnolia vermicularis</i>	rockworm	lichen
<i>Thamnolia vermicularis</i>	the whiteworm	lichen
<i>Tofieldia borealis</i>	Scotch false asphodel	forb
<i>Tofieldia coccinea</i>	northern false asphodel	forb
<i>Tomentypnum nitens</i>	golden fuzzy	moss
<i>Umbilicaria rock</i>	tripe	lichen
<i>Vaccinium uliginosum</i>	bog blueberry	shrub
<i>Vaccinium vitis-idaea</i>	lingonberry	shrub
<i>Zygadenus elegans</i>	mountain death-camas	forb
	blk crustose	lichen
	crustose lichen	lichen
	fungi-unknown	fungi

Appendix 11

Analytical Results for Total Metals in Collected Vegetation Tissue

Appendix 11. Analytical Results for Total Metals in Collected Vegetation Tissue

Date	01-Nov-10	Date Received	19-Oct-10 17:55
ALS File No.	L944854	Project	1009-002-12, 1009-002-17
Report To	NATASHA BUSH, RESCAN ENVIRONMENTAL SERVICES		

RESULTS OF ANALYSIS

Sample ID		D73 FLAVOCETRARIA CUCULLATA	D82 FLAVOCETRARIA CUCULLATA	D114 FLAVOCETRARIA CUCULLATA	023 FLAVOCETRARIA CUCULLATA	021 FLAVOCETRARIA CUCULLATA	010 FLAVOCETRARIA CUCULLATA	011 FLAVOCETRARIA CUCULLATA	024 FLAVOCETRARIA CUCULLATA	D63 FLAVOCETRARIA NIVALIS
Date Sampled		24-AUG-10	25-AUG-10	28-AUG-10	16-JUL-10	16-JUL-10	14-JUL-10	14-JUL-10	16-JUL-10	23-AUG-10
ALS Sample ID		L944854-1	L944854-2	L944854-3	L944854-4	L944854-5	L944854-6	L944854-7	L944854-8	L944854-9
Matrix	Units	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Physical Tests										
% Moisture	%	8.06	11.7	35.9	61.2	50.2	22.2	14.1	31.3	18.8
Metals										
Aluminum (Al)-Total	mg/kg	70.3	115	56.4	81.9	842	83.1	75.0	63.2	47.6
Aluminum (Al)-Total	mg/kg wwt	64.7	102	36.1	31.8	419	64.7	64.4	43.4	38.7
Antimony (Sb)-Total	mg/kg	<0.010	<0.010	<0.010	<0.010	0.018	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	mg/kg wwt	0.0037	0.0036	0.0031	0.0033	0.0089	0.0041	0.0041	0.0046	0.0028
Arsenic (As)-Total	mg/kg	0.042	0.042	0.038	0.043	0.140	0.046	0.048	0.056	0.028
Arsenic (As)-Total	mg/kg wwt	0.0385	0.0371	0.0242	0.0167	0.0699	0.0357	0.0412	0.0381	0.0231
Barium (Ba)-Total	mg/kg	9.05	7.20	5.70	4.02	4.83	8.39	8.04	2.86	13.7
Barium (Ba)-Total	mg/kg wwt	8.32	6.37	3.65	1.56	2.41	6.53	6.91	1.97	11.1
Beryllium (Be)-Total	mg/kg	<0.010	<0.010	<0.010	<0.010	0.013	<0.010	<0.010	<0.010	<0.010
Beryllium (Be)-Total	mg/kg wwt	0.0021	0.0049	<0.0020	<0.0020	0.0064	0.0028	0.0034	<0.0020	0.0025
Bismuth (Bi)-Total	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth (Bi)-Total	mg/kg wwt	<0.0020	<0.0020	<0.0020	<0.0020	0.0023	<0.0020	<0.0020	<0.0020	<0.0020
Boron (B)-Total	mg/kg	4.6	5.3	4.7	7.0	4.1	4.8	3.2	10.1	2.8
Boron (B)-Total	mg/kg wwt	4.20	4.71	3.01	2.71	2.04	3.71	2.75	6.91	2.25
Cadmium (Cd)-Total	mg/kg	0.071	0.041	0.066	0.039	0.053	0.040	0.047	0.125	0.076
Cadmium (Cd)-Total	mg/kg wwt	0.0657	0.0365	0.0420	0.0150	0.0264	0.0313	0.0399	0.0855	0.0614
Calcium (Ca)-Total	mg/kg	4790	1580	7260	2550	8970	1920	1500	40400	4520
Calcium (Ca)-Total	mg/kg wwt	4410	1400	4650	991	4470	1490	1290	27700	3670
Cesium (Cs)-Total	mg/kg	0.0460	0.0244	0.0480	0.0128	0.0328	0.0583	0.0765	0.0111	0.0353
Cesium (Cs)-Total	mg/kg wwt	0.0423	0.0215	0.0307	0.0050	0.0163	0.0453	0.0657	0.0076	0.0286
Chromium (Cr)-Total	mg/kg	0.51	1.62	1.10	0.93	7.33	0.68	0.42	0.85	0.56
Chromium (Cr)-Total	mg/kg wwt	0.473	1.43	0.704	0.360	3.65	0.531	0.361	0.585	0.454
Cobalt (Co)-Total	mg/kg	0.097	0.198	0.081	0.108	0.940	0.201	0.163	0.052	0.178
Cobalt (Co)-Total	mg/kg wwt	0.0893	0.175	0.0522	0.0420	0.468	0.157	0.140	0.0359	0.144
Copper (Cu)-Total	mg/kg	0.77	0.95	0.89	0.91	3.28	0.96	0.90	1.80	0.69
Copper (Cu)-Total	mg/kg wwt	0.707	0.835	0.571	0.353	1.63	0.748	0.775	1.24	0.561
Gallium (Ga)-Total	mg/kg	0.022	0.033	<0.020	0.028	0.284	0.023	0.022	0.021	<0.020
Gallium (Ga)-Total	mg/kg wwt	0.0203	0.0288	0.0114	0.0109	0.142	0.0180	0.0189	0.0144	0.0134
Iron (Fe)-Total	mg/kg	79.3	125	62.3	104	1580	84.2	72.1	88.1	52.5
Iron (Fe)-Total	mg/kg wwt	72.9	110	39.9	40.6	785	65.5	61.9	60.5	42.6
Lead (Pb)-Total	mg/kg	0.223	0.188	0.369	0.188	0.503	0.249	0.233	0.409	0.449
Lead (Pb)-Total	mg/kg wwt	0.205	0.166	0.237	0.0729	0.251	0.194	0.200	0.281	0.365
Lithium (Li)-Total	mg/kg	<0.10	<0.10	<0.10	<0.10	0.63	<0.10	<0.10	<0.10	<0.10
Lithium (Li)-Total	mg/kg wwt	0.064	0.080	0.026	0.029	0.314	0.042	0.043	0.023	<0.020
Magnesium (Mg)-Total	mg/kg	603	748	503	998	1900	605	814	419	1190
Magnesium (Mg)-Total	mg/kg wwt	554	661	322	388	945	471	699	288	968
Manganese (Mn)-Total	mg/kg	44.9	95.5	53.2	133	77.2	64.2	66.8	8.81	109
Manganese (Mn)-Total	mg/kg wwt	41.3	84.3	34.1	51.8	38.5	50.0	57.3	6.05	88.6
Mercury (Hg)-Total	mg/kg	0.0396	0.0386	0.0402	0.0268	0.0469	0.0519	0.0450	0.0311	0.0401
Mercury (Hg)-Total	mg/kg wwt	0.0364	0.0341	0.0257	0.0104	0.0234	0.0404	0.0387	0.0213	0.0326
Molybdenum (Mo)-Total	mg/kg	0.033	0.040	0.032	0.059	0.104	0.027	0.028	0.039	0.032
Molybdenum (Mo)-Total	mg/kg wwt	0.0303	0.0352	0.0206	0.0231	0.0518	0.0213	0.0243	0.0267	0.0260
Nickel (Ni)-Total	mg/kg	0.51	0.87	0.62	0.64	3.87	0.58	0.40	0.60	0.41
Nickel (Ni)-Total	mg/kg wwt	0.473	0.772	0.394	0.249	1.93	0.450	0.346	0.410	0.335
Phosphorus (P)-Total	mg/kg	650	1140	540	610	790	750	990	330	640
Phosphorus (P)-Total	mg/kg wwt	600	1010	350	240	400	590	850	230	520
Potassium (K)-Total	mg/kg	1600	2500	1900	1900	2000	2000	2200	1600	1900
Potassium (K)-Total	mg/kg wwt	1450	2200	1240	730	1020	1590	1880	1070	1560
Rhenium (Re)-Total	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Rhenium (Re)-Total	mg/kg wwt	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Rubidium (Rb)-Total	mg/kg	6.32	5.38	1.21	1.25	5.85	1.25	9.04	1.63	4.41
Rubidium (Rb)-Total	mg/kg wwt	5.81	4.75	3.73	0.468	0.623	4.56	7.76	1.12	3.58
Selenium (Se)-Total	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Selenium (Se)-Total	mg/kg wwt	0.049	0.040	0.040	<0.020	0.030	0.058	0.037	0.029	0.060
Silver (Ag)-Total	mg/kg	<0.0050	0.0074	0.0062	0.0083	0.0146	0.0065	0.0070	0.0075	0.0128
Silver (Ag)-Total	mg/kg wwt	0.0039	0.0065	0.0040	0.0032	0.0073	0.0050	0.0060	0.0052	0.0104
Sodium (Na)-Total	mg/kg	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000
Sodium (Na)-Total	mg/kg wwt	<900	730	<600	<400	<500	<700	810	<700	<700
Strontium (Sr)-Total	mg/kg	30.6	2.97	3.79	5.03	8.87	3.66	3.59	14.1	9.62
Strontium (Sr)-Total	mg/kg wwt	28.1	2.63	2.43	1.95	4.42	2.85	3.08	9.66	7.82
Tellurium (Te)-Total	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium (Te)-Total	mg/kg wwt	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium (Tl)-Total	mg/kg	0.0076	0.0167	0.0098	0.0039	0.0051	0.0180	0.0233	<0.0020	0.0057
Thallium (Tl)-Total	mg/kg wwt	0.00696	0.0147	0.00629	0.00151	0.00256	0.0140	0.0200	0.00109	0.00464
Thorium (Th)-Total	mg/kg	0.018	0.049	0.019	0.036	0.150	0.030	0.021	0.026	0.014
Thorium (Th)-Total	mg/kg wwt	0.0169	0.0431	0.0122	0.0140	0.0745	0.0237	0.0179	0.0179	0.0112
Tin (Sn)-Total	mg/kg	0.048	0.023	0.140	0.038	0.041	0.024	0.041	0.033	<0.020
Tin (Sn)-Total	mg/kg wwt	0.0442	0.0205	0.0896	0.0147	0.0206	0.0183	0.0355	0.0225	0.0158
Titanium (Ti)-Total	mg/kg	3.64	7.32	3.03	5.18	56.7	5.13	3.29	3.91	4.05
Titanium (Ti)-Total	mg/kg wwt	3.35	6.47	1.94	2.01	28.3	3.99	2.83	2.68	3.29
Uranium (U)-Total	mg/kg	0.0053	0.0105	0.0043	0.0065	0.0226	0.0058	0.0052	0.0079	0.0029
Uranium (U)-Total	mg/kg wwt	0.00483	0.00930	0.00273	0.00253	0.0112	0.00449	0.00444	0.00543	0.00236
Vanadium (V)-Total	mg/kg	0.181	0.257	0.133	0.242	4.17	0.185	0.155	0.231	0.130
Vanadium (V)-Total	mg/kg wwt	0.166	0.227	0.0851	0.0939	2.08	0.144	0.133	0.159	0.105
Yttrium (Y)-Total	mg/kg	0.052	0.080	0.055	0.051	0.517	0.046	0.034	0.170	0.088
Yttrium (Y)-Total	mg/kg wwt	0.0482	0.0710	0.0351	0.0198	0.258	0.0359	0.0296	0.117	0.0713
Zinc (Zn)-Total	mg/kg	31.3	28.6	21.7	25.2	26.8	23.5	32.4	17.2	37.7
Zinc (Zn)-Total	mg/kg wwt	28.8	25.3	13.9	9.78	13.3	18.3	27.8	11.8	30.6
Zirconium (Zr)-Total	mg/kg	<0.20	<0.20	<0.20	<0.20	0.40	<0.20	<0.20	<0.20	<0.20
Zirconium (Zr)-Total	mg/kg wwt	0.054	0.135	<0.040	0.046	0.198	0.056	0.060	0.050	<0.040

Appendix 11. Analytical Results for Total Metals in Collected Vegetation Tissue

Date	01-Nov-10	Date Received	19-Oct-10 17:55
ALS File No.	L944854	Project	1009-002-12, 1009-002-17
Report To	NATASHA BUSH, RESCAN ENVIRONMENTAL SERVICES		

RESULTS OF ANALYSIS

		D65 FLAVOCETRARIA NIVALIS	D62 FLAVOCETRARIA NIVALIS	D89 FLAVOCETRARIA NIVALIS	D97 FLAVOCETRARIA NIVALIS	D93 FLAVOCETRARIA NIVALIS	D116 FLAVOCETRARIA NIVALIS	D86 FLAVOCETRARIA NIVALIS	D114 FLAVOCETRARIA NIVALIS	D125 FLAVOCETRARIA NIVALIS
Sample ID		23-AUG-10	23-AUG-10	26-AUG-10	26-AUG-10	26-AUG-10	28-AUG-10	25-AUG-10	28-AUG-10	29-AUG-10
ALS Sample ID		L944854-10	L944854-11	L944854-12	L944854-13	L944854-14	L944854-15	L944854-16	L944854-17	L944854-18
Matrix	Units	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Physical Tests										
% Moisture	%	9.51	35.8	18.1	11.4	17.1	15.8	9.85	36.4	16.2
Metals										
Aluminum (Al)-Total	mg/kg	44.1	94.6	26.9	40.5	45.9	36.0	29.2	33.5	47.2
Aluminum (Al)-Total	mg/kg wwt	39.9	60.7	22.1	35.9	38.0	30.3	26.3	21.3	39.6
Antimony (Sb)-Total	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	mg/kg wwt	0.0025	0.0054	0.0020	0.0027	0.0022	0.0037	0.0028	0.0031	0.0031
Arsenic (As)-Total	mg/kg	0.037	0.160	0.034	0.041	0.028	0.037	0.044	0.033	0.035
Arsenic (As)-Total	mg/kg wwt	0.0333	0.103	0.0277	0.0368	0.0230	0.0308	0.0395	0.0208	0.0297
Barium (Ba)-Total	mg/kg	23.1	21.6	7.67	16.4	6.96	24.2	14.7	13.6	12.8
Barium (Ba)-Total	mg/kg wwt	20.9	13.9	6.28	14.5	5.77	20.4	13.3	8.65	10.7
Beryllium (Be)-Total	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium (Be)-Total	mg/kg wwt	0.0030	0.0043	<0.0020	0.0026	<0.0020	0.0034	<0.0020	<0.0020	0.0031
Bismuth (Bi)-Total	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth (Bi)-Total	mg/kg wwt	<0.0020	0.0022	<0.0020	0.0021	<0.0020	<0.0020	<0.0020	<0.0020	0.0031
Boron (B)-Total	mg/kg	6.4	7.1	6.0	7.2	6.5	4.2	7.6	5.2	4.1
Boron (B)-Total	mg/kg wwt	5.76	4.55	4.91	6.38	5.37	3.56	6.86	3.30	3.41
Cadmium (Cd)-Total	mg/kg	0.072	0.078	0.141	0.071	0.114	0.080	0.053	0.108	0.083
Cadmium (Cd)-Total	mg/kg wwt	0.0649	0.0500	0.115	0.0629	0.0942	0.0675	0.0478	0.0687	0.0696
Calcium (Ca)-Total	mg/kg	5540	7130	15400	6200	5920	3860	4170	7270	5580
Calcium (Ca)-Total	mg/kg wwt	5010	4570	12600	5500	4910	3250	3760	4630	4680
Cesium (Cs)-Total	mg/kg	0.0382	0.0297	0.0399	0.0144	0.102	0.0407	0.0307	0.0303	0.0410
Cesium (Cs)-Total	mg/kg wwt	0.0346	0.0191	0.0327	0.0128	0.0847	0.0343	0.0276	0.0193	0.0344
Chromium (Cr)-Total	mg/kg	0.65	1.06	0.35	0.48	0.30	0.34	0.61	1.73	0.59
Chromium (Cr)-Total	mg/kg wwt	0.587	0.683	0.290	0.421	0.252	0.287	0.553	1.10	0.496
Cobalt (Co)-Total	mg/kg	0.227	0.373	0.035	0.161	0.155	0.166	0.080	0.115	0.124
Cobalt (Co)-Total	mg/kg wwt	0.205	0.240	0.0283	0.142	0.129	0.140	0.0721	0.0730	0.104
Copper (Cu)-Total	mg/kg	0.70	1.09	0.79	0.67	0.62	0.68	0.77	0.84	0.74
Copper (Cu)-Total	mg/kg wwt	0.631	0.701	0.649	0.592	0.512	0.569	0.697	0.533	0.616
Gallium (Ga)-Total	mg/kg	<0.020	0.026	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Gallium (Ga)-Total	mg/kg wwt	0.0140	0.0168	0.0066	0.0076	0.0082	0.0089	0.0079	0.0067	0.0107
Iron (Fe)-Total	mg/kg	53.9	137	33.0	47.4	39.1	31.4	45.2	54.9	54.9
Iron (Fe)-Total	mg/kg wwt	48.8	87.9	27.0	42.0	30.8	32.9	28.3	28.8	46.0
Lead (Pb)-Total	mg/kg	0.354	0.612	0.241	0.342	0.419	0.352	0.205	0.377	0.465
Lead (Pb)-Total	mg/kg wwt	0.320	0.393	0.197	0.303	0.348	0.297	0.185	0.240	0.389
Lithium (Li)-Total	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Lithium (Li)-Total	mg/kg wwt	<0.020	0.037	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium (Mg)-Total	mg/kg	904	1060	714	941	1030	888	852	882	692
Magnesium (Mg)-Total	mg/kg wwt	818	683	585	834	851	748	768	561	579
Manganese (Mn)-Total	mg/kg	124	144	66.2	127	62.1	102	161	137	49.8
Manganese (Mn)-Total	mg/kg wwt	112	92.7	54.2	113	51.5	86.4	145	87.0	41.7
Mercury (Hg)-Total	mg/kg	0.0411	0.0370	0.0309	0.0361	0.0316	0.0333	0.0399	0.0419	0.0386
Mercury (Hg)-Total	mg/kg wwt	0.0372	0.0238	0.0253	0.0320	0.0262	0.0280	0.0360	0.0267	0.0323
Molybdenum (Mo)-Total	mg/kg	0.028	0.039	0.032	0.029	0.027	0.032	0.026	0.055	0.056
Molybdenum (Mo)-Total	mg/kg wwt	0.0251	0.0251	0.0261	0.0257	0.0225	0.0271	0.0238	0.0352	0.0468
Nickel (Ni)-Total	mg/kg	0.67	0.90	0.27	0.42	0.42	0.32	0.36	0.95	0.43
Nickel (Ni)-Total	mg/kg wwt	0.607	0.578	0.224	0.369	0.351	0.273	0.329	0.606	0.358
Phosphorus (P)-Total	mg/kg	420	420	380	390	390	580	600	440	430
Phosphorus (P)-Total	mg/kg wwt	380	270	310	340	330	490	540	280	360
Potassium (K)-Total	mg/kg	1900	1600	1500	1600	1400	1900	2100	1800	1400
Potassium (K)-Total	mg/kg wwt	1710	1030	1210	1390	1170	1590	1900	1120	1200
Rhenium (Re)-Total	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Rhenium (Re)-Total	mg/kg wwt	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Rubidium (Rb)-Total	mg/kg	4.97	4.14	3.56	2.62	4.74	3.64	4.74	4.49	4.43
Rubidium (Rb)-Total	mg/kg wwt	4.50	2.66	2.92	2.33	5.35	3.99	3.28	2.85	3.71
Selenium (Se)-Total	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Selenium (Se)-Total	mg/kg wwt	0.075	<0.020	0.040	0.034	<0.020	0.038	0.053	0.029	0.047
Silver (Ag)-Total	mg/kg	0.0089	0.0139	0.0061	0.0079	0.0068	0.0082	0.0052	<0.0050	0.0124
Silver (Ag)-Total	mg/kg wwt	0.0081	0.0089	0.0050	0.0070	0.0056	0.0069	0.0047	0.0031	0.0104
Sodium (Na)-Total	mg/kg	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000
Sodium (Na)-Total	mg/kg wwt	<900	<600	<700	<900	<800	<800	<800	<700	<800
Strontium (Sr)-Total	mg/kg	11.5	16.8	12.1	11.2	7.87	9.41	4.77	8.42	9.30
Strontium (Sr)-Total	mg/kg wwt	10.4	10.8	9.93	9.92	6.52	7.93	4.30	5.35	7.79
Tellurium (Te)-Total	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Tellurium (Te)-Total	mg/kg wwt	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Thallium (Tl)-Total	mg/kg	0.0153	0.0069	<0.0020	0.0043	0.0024	0.0100	0.0076	0.0051	0.0069
Thallium (Tl)-Total	mg/kg wwt	0.0138	0.00441	0.00141	0.00378	0.00201	0.00839	0.00686	0.00323	0.00582
Thorium (Th)-Total	mg/kg	0.016	0.040	0.013	0.042	<0.010	0.014	<0.010	0.019	0.015
Thorium (Th)-Total	mg/kg wwt	0.0146	0.0257	0.0103	0.0372	0.0081	0.0116	0.0068	0.0123	0.0127
Tin (Sn)-Total	mg/kg	0.021	0.037	0.024	0.050	0.036	<0.020	0.033	0.041	0.032
Tin (Sn)-Total	mg/kg wwt	0.0186	0.0238	0.0194	0.0445	0.0302	0.0144	0.0297	0.0260	0.0271
Titanium (Ti)-Total	mg/kg	2.92	9.10	1.84	3.95	1.90	2.36	1.58	2.27	2.93
Titanium (Ti)-Total	mg/kg wwt	2.64	5.84	1.51	3.50	1.57	1.99	1.42	1.44	2.45
Uranium (U)-Total	mg/kg	0.0094	0.0148	0.0023	0.0050	0.0023	0.0032	0.0025	0.0032	0.0059
Uranium (U)-Total	mg/kg wwt	0.00851	0.00949	0.00191	0.00442	0.00190	0.00272	0.00223	0.00203	0.00497
Vanadium (V)-Total	mg/kg	0.143	0.278	0.073	0.116	0.075	0.083	0.072	0.089	0.148
Vanadium (V)-Total	mg/kg wwt	0.130	0.179	0.0596	0.103	0.0624	0.0700	0.0650	0.0568	0.124
Yttrium (Y)-Total	mg/kg	0.191	0.489	0.034	0.175	0.057	0.036	0.022	0.065	0.085
Yttrium (Y)-Total	mg/kg wwt	0.173	0.314	0.0277	0.155	0.0475	0.0300	0.0197	0.0413	0.0708
Zinc (Zn)-Total	mg/kg	25.9	25.1	17.6	22.4	17.9	27.6	28.9	27.2	18.5
Zinc (Zn)-Total	mg/kg wwt	23.4	16.1	14.4	19.9	14.8	23.3	26.0	17.3	15.5
Zirconium (Zr)-Total	mg/kg	<0.20	0.26	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Zirconium (Zr)-Total	mg/kg wwt	<0.040	0.166	<0.040	0.051	<0.040	<0.040	<0.040	<0.040	<0.040