

Appendix A: Sample Assays

Appendix A : Soil Sample Location and Description																					
sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1		
1478187	VV01	8/20/2017 0:00	08N	428105	7044765		1204	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Clay	Quartz Chips		
1495041	VV01	8/20/2017 0:00	08N	428126	7044720		1193	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine			
1495045	VV01	8/20/2017 0:00	08N	428148	7044674		1184	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips		
1495046	VV01	8/20/2017 0:00	08N	428136	7044698		1189	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Quartz Chips		
1495047	VV01	8/20/2017 0:00	08N	428114	7044743		1198	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Sandy		
1515770	TL01	8/16/2017 0:00	08N	433912	7047457		1133	Auger	60	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Rocky Sample	Rocky Terrain		
1515771	TL01	8/16/2017 0:00	08N	433902	7047478		1130	Auger	80	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample		
1515772	TL01	8/16/2017 0:00	08N	433893	7047502		1126	Auger	70	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample		
1515773	TL01	8/16/2017 0:00	08N	433881	7047524		1123	Auger	70	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample		
1515774	TL01	8/18/2017 0:00	08N	433461	7049522		785	Auger	60	C	Steep	Chocolate Brown	White Spruce	Leaf Cover	Dry	Good	Sand				
1515775	TL01	8/18/2017 0:00	08N	433461	7049522	1515774	785	Auger	60	C	Steep	Chocolate Brown	White Spruce	Leaf Cover	Dry	Good	Sand				
1515876	TL01	8/16/2017 0:00	08N	433870	7047547		1119	Auger	60	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample		
1515877	TL01	8/16/2017 0:00	08N	433859	7047571		1115	Auger	70	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample		
1515878	TL01	8/16/2017 0:00	08N	433847	7047591		1112	Auger	60	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Wet	Good	Sand	Fine	Rocky Sample		
1515879	TL01	8/16/2017 0:00	08N	433837	7047616		1106	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Sample		
1515880	TL01	8/16/2017 0:00	08N	433826	7047637		1102	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Sample		
1515881	TL01	8/16/2017 0:00	08N	433815	7047660		1093	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Rocky Sample		
1515882	TL01	8/16/2017 0:00	08N	433803	7047682		1082	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Dry	Good	Sand	Partially Frozen	Organic 10%		
1515883	TL01	8/16/2017 0:00	08N	433793	7047705		1074	Auger	80	C	Pronounced Slopes	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Rocky Sample		
1515884	TL01	8/16/2017 0:00	08N	433781	7047727		1066	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Rocky Terrain		
1515885	TL01	8/16/2017 0:00	08N	433771	7047749		1058	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Rocky Terrain		
1515886	TL01	8/16/2017 0:00	08N	433759	7047772		1047	Auger	100	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Organic 10%		
1515887	TL01	8/16/2017 0:00	08N	433748	7047794		1038</														

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sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground_cover	moisture	quality	texture	sample_not	sample_n_1
1537545	AA03	8/18/2017 0:00	08N	433206	7048445		997	Auger	90	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	Bright Orange Rust
1537546	AA03	8/18/2017 0:00	08N	433196	7048468		991	Auger	80	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Coarse	
1537547	AA03	8/18/2017 0:00	08N	433185	7048490		986	Auger	110	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1537548	AA03	8/18/2017 0:00	08N	433173	7048514		980	Auger	100	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1537549	AA03	8/18/2017 0:00	08N	433162	7048536		975	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1537550	AA03	8/18/2017 0:00	08N	433162	7048536	1537549	975	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1537551	AA03	8/18/2017 0:00	08N	433152	7048558		970	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537552	AA03	8/18/2017 0:00	08N	433141	7048580		966	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537553	AA03	8/18/2017 0:00	08N	433130	7048603		960	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537554	AA03	8/18/2017 0:00	08N	433119	7048625		956	Auger	110	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Excellent	Sand	Quartz Chips	
1537555	AA03	8/18/2017 0:00	08N	433107	7048649		953	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	
1537556	AA03	8/18/2017 0:00	08N	433097	7048671		948	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537557	AA03	8/18/2017 0:00	08N	433085	7048693		941	Auger	110	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537558	AA03	8/18/2017 0:00	08N	433075	7048716		938	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537559	AA03	8/18/2017 0:00	08N	433064	7048738		933	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537560	AA03	8/18/2017 0:00	08N	433053	7048761		929	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537561	AA03	8/18/2017 0:00	08N	433042	7048783		923	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537562	AA03	8/18/2017 0:00	08N	433031	7048806		919	Auger	90	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Quartz Chips
1537563	AA03	8/18/2017 0:00	08N	433020	7048828		916	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Quartz Chips	Rocky Sample
1537564	AA03	8/18/2017 0:00	08N	433009	7048851		913	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537565	AA03	8/18/2017 0:00	08N	432998	7048874		911	Auger	110	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537566	AA03	8/18/2017 0:00	08N	432986	7048897		907	Auger	100	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537567	AA03	8/18/2017 0:00	08N	432977	7048918		905	Auger	90	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Sandy	Dull Red Rust
1537568	AA03	8/18/2017 0:00	08N	432965	7048941		901	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Quartz Chips	Sandy
1537569	AA03	8/18/2017 0:00	08N	432955	7048963		898	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Excellent	Sand	Quartz Chips	Sandy
1537570	AA03	8/18/2017 0:00	08N	432943	7048986		894	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Sandy	
1537571	AA03	8/19/2017 0:00	08N	431710	7046497		1221	Auger	110	C	Flat	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537572	AA03	8/19/2017 0:00	08N	431701	7046518		1221	Auger	100	C	Flat	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537573	AA03	8/19/2017 0:00	08N	431689	7046540		1219	Auger	90	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537574	AA03	8/19/2017 0:00	08N	431678	7046563		1216	Auger	80	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537575	AA03	8/19/2017 0:00	08N	431678	7046563	1537574	1216	Auger	80	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537576	AA03	8/19/2017 0:00	08N	431667	7046586		1210	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Coarse
1537577	AA03	8/19/2017 0:00	08N	431656	7046608		1206	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Rusty Rock Chip
1537578	AA03	8/19/2017 0:00	08N	431645	7046631		1202	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537579	AA03	8/19/2017 0:00	08N	431634	7046653		1198	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Sandy
1537580	AA03	8/19/2017 0:00	08N	431623	7046676		1193	Auger	60	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Good	Sand	Sandy	Dull Red Rust
1537581	AA03	8/19/2017 0:00	08N	431612	7046699		1189	Auger	80	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537582	AA03	8/19/2017 0:00	08N	431601	7046721		1184	Auger	90	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537583	AA03	8/19/2017 0:00	08N	431591	7046744		1180	Auger	80	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537584	AA03	8/19/2017 0:00	08N	431579	7046767		1177	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Sandy
1537585	AA03	8/19/2017 0:00	08N	431568	7046788		1174	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537586	AA03	8/19/2017 0:00	08N	431557	7046811		1171	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	Quartz Chips
1537587	AA03	8/19/2017 0:00	08N	431546	7046833		1168	Auger	80	C	Subtle Slope	Reddish Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Sandy
1537588	AA03	8/19/2017 0:00	08N	431535	7046856		1166	Auger	70	C	Subtle Slope	Light Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Sandy
1537589	AA03	8/19/2017 0:00	08N	431445	7046812		1165	Auger	110	C	Subtle Slope	Light Bluish Grey	White Spruce	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Sandy
1537590	AA03	8/19/2017 0:00	08N	431456	7046791		1168	Auger	110	C	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Excellent	Sand	Coarse	Bright Orange Rust
1537591	AA03	8/19/2017 0:00	08N	431467	7046768		1172	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Bright Orange Rust
1537592	AA03	8/19/2017 0:00	08N	431478	7046745		1176	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537593	AA03	8/19/2017 0:00	08N	431489	7046723		1180	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	Quartz Chips
1537594	AA03	8/19/2017 0:00	08N	431499	7046700		1183	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537595	AA03	8/19/2017 0:00	08N	431510	7046679		1187	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537596	AA03	8/19/2017 0:00	08N	431521	7046655		1192	Auger	60	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Sandy
1537597	AA03	8/19/2017 0:00	08N	431533	7046633		1195	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537598	AA03	8/19/2017 0:00	08N	431544	7046610		1199	Auger	70	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Good	Sand	Sandy	
1537599	AA03	8/19/2017 0:00	08N	431555	7046588		1205	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Sandy	Rocky Terrain
1537600	AA03	8/19/2017 0:00	08N	431555	7046588	1537599	1205	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Sandy	Rocky Terrain
1537601	AA03	8/19/2017 0:00	08N	431566	7046566		1208	Auger	80	C	Subtle Slope	Chocolate Brown	Dwarf Birch	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537602	AA03	8/19/2017 0:00	08N	431577	7046543		1211	Auger	60	C	Subtle Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537603	AA03	8/19/2017 0:00	08N	431587	7046521		1213	Auger	60	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Thin Moss Cover	Damp	Good	Sand	Sandy	
1537604	AA03	8/19/2017 0:00	08N	431598	7046498		1217	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537605	AA03	8/19/2017 0:00	08N	431610	7046475		1220	Auger	90	C	Flat	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Dull Red Rust
1537606	AA03	8/19/2017 0:00	08N	431620	7046453		1224	Auger	80	C	Flat	Chocolate Brown	Dwarf Birch	Thin Moss Cover	Damp	Excellent	Sand	Sandy	
1537626	AA03	8/20/2017 0:00	08N	428921	7044912		1197	Auger	60	B	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	
1537627	AA03	8/20/2017 0:00	08N	428911	7044934		1204	Auger	60	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	
1537628	AA03	8/20/2017 0:00	08N	428899	7044956		1208	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	
1537629	AA03	8/20/2017 0:00	08N	428888	7044979		1211	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Bare Soil	Damp	Good	Sand	Sandy	
1537630	AA03	8/20/2017 0:00	08N	428878	7045001		1212	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Sandy	Rocky Terrain
1537631	AA03	8/20/2017 0:00	08N	428866	7045024		1215	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Bare Soil	Damp	Excellent	Sand	Coarse	Sandy
1537632	AA03	8/20/2017 0:00	08N	428855	7045047		1220	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537633	AA03	8/20/2017 0:00	08N	428845	7045069		1223	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Bare Soil	Damp	Excellent	Sand	Coarse	Sandy
1537634	AA03	8/20/2017 0:00	08N	428834	7045092		1226	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	
1537635	AA03	8/20/2017 0:00	08N	428823	7045114		1228	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Sandy	

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sample_id	sample_tec	Date	utm_zone	Eastings	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1537650	AA03	8/20/2017 0:00	08N	428632	7045049	1537649	1222	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Quartz Chips
1537651	AA03	8/20/2017 0:00	08N	428731	7044848		1194	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Sandy	Dull Red Rust
1537652	AA03	8/20/2017 0:00	08N	428720	7044869		1198	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	
1537653	AA03	8/20/2017 0:00	08N	428708	7044892		1199	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Dull Red Rust
1537654	AA03	8/20/2017 0:00	08N	428698	7044915		1203	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Sandy	
1537655	AA03	8/20/2017 0:00	08N	428687	7044937		1207	Auger	110	C	Subtle Slope	Pale Greenish	White Spruce	Thin Moss Cover	Damp	Excellent	Sand	Coarse	
1537656	AA03	8/20/2017 0:00	08N	428676	7044959		1209	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Coarse	
1537657	AA03	8/20/2017 0:00	08N	428666	7044981		1210	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Good	Sand	Rocky Sample	Bright Orange Rust
1537658	AA03	8/20/2017 0:00	08N	428655	7045004		1212	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Coarse	
1537659	AA03	8/20/2017 0:00	08N	428643	7045027		1215	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Sandy	
1537676	DB02	8/20/2017 0:00	08N	428646	7046172		1180	Auger	110	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Dry	Good	Silt	Sandy	
1537677	DB02	8/20/2017 0:00	08N	428657	7046150		1180	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Rocky Terrain	
1537678	DB02	8/20/2017 0:00	08N	428668	7046128		1187	Auger	60	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537679	DB02	8/20/2017 0:00	08N	428679	7046105		1194	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Bare Soil	Damp	Good	Sand		
1537680	DB02	8/20/2017 0:00	08N	428690	7046082		1208	Auger	60	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537681	DB02	8/20/2017 0:00	08N	428701	7046060		1190	Auger	60	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537682	DB02	8/20/2017 0:00	08N	428712	7046038		1195	Auger	60	B	Subtle Slope	Light Brown	Pine	Thin Moss Cover	Dry	Good	Silt	Sandy	
1537683	DB02	8/20/2017 0:00	08N	428722	7046015		1185	Auger	80	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537684	DB02	8/20/2017 0:00	08N	428734	7045992		1196	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1537685	DB02	8/20/2017 0:00	08N	428743	7045970		1208	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537686	DB02	8/20/2017 0:00	08N	428754	7045948		1211	Auger	60	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1537687	DB02	8/20/2017 0:00	08N	428767	7045925		1215	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1537688	DB02	8/20/2017 0:00	08N	428777	7045902		1220	Auger	50	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1537689	DB02	8/20/2017 0:00	08N	428788	7045881		1210	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537690	DB02	8/20/2017 0:00	08N	428801	7045858		1189	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1537691	DB02	8/20/2017 0:00	08N	428810	7045835		1215	Auger	70	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537692	DB02	8/20/2017 0:00	08N	428821	7045813		1219	Auger	100	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537693	DB02	8/20/2017 0:00	08N	429001	7045900		1200	Auger	40	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1537694	DB02	8/20/2017 0:00	08N	428990	7045923		1199	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1537695	DB02	8/20/2017 0:00	08N	428979	7045945		1196	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	
1537696	DB02	8/20/2017 0:00	08N	428969	7045968		1191	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand		
1537697	DB02	8/20/2017 0:00	08N	428957	7045989		1182	Auger	60	C	Subtle Slope	Light Brown	Pine	Reindeer Moss	Damp	Good	Silt	Sandy	
1537698	DB02	8/20/2017 0:00	08N	428947	7046012		1194	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Dry	Good	Sand		
1537699	DB02	8/20/2017 0:00	08N	428934	7046035		1192	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Dry	Good	Sand		
1537700	DB02	8/20/2017 0:00	08N	428934	7046035	1537699	1190	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Dry	Good	Sand		
1539001	LS01	8/16/2017 0:00	08N	433822	7047413		1158	Auger	50	C	Flat	Chocolate Brown	Balsam Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1539002	LS01	8/16/2017 0:00	08N	433813	7047436		1153	Auger	80	C	Flat	Dark Olivine Green	Black Spruce	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Coarse
1539003	LS01	8/16/2017 0:00	08N	433801	7047458		1148	Auger	80	C	Subtle Slope	Dark Olivine Green	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Rusty Rock Chip
1539004	LS01	8/16/2017 0:00	08N	433792	7047481		1144	Auger	60	C	Flat	Greyish Green	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Sandy
1539005	LS01	8/16/2017 0:00	08N	433779	7047503		1138	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Coarse
1539006	LS01	8/16/2017 0:00	08N	433769	7047526		1134	Auger	80	C	Flat	Dark Olivine Green	Black Spruce	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Coarse
1539007	LS01	8/16/2017 0:00	08N	433757	7047548		1130	Auger	80	C	Flat	Dark Olivine Green	Black Spruce	Sphagnum Moss > 30cm	Wet	Good	Silt	Quartz Chips	
1539008	LS01	8/16/2017 0:00	08N	433745	7047570		1126	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Coarse
1539009	LS01	8/16/2017 0:00	08N	433736	7047591		1123	Auger	60	C	Subtle Slope	Dark Olivine Green	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Quartz Chips	
1539010	LS01	8/16/2017 0:00	08N	433725	7047616		1117	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Silt	Rocky Terrain	Small Sample
1539011	LS01	8/16/2017 0:00	08N	433714	7047638		1112	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip
1539012	LS01	8/16/2017 0:00	08N	433704	7047660		1103	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Quartz Chips	Bright Orange Rust
1539013	LS01	8/16/2017 0:00	08N	433693	7047684		1093	Auger	60	C	Subtle Slope	Grey	Black Spruce	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Dull Red Rust	Quartz Chips
1539014	LS01	8/16/2017 0:00	08N	433679	7047705		1085	Auger	70	C	Flat	Grey	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Bright Orange Rust	
1539015	LS01	8/16/2017 0:00	08N	433668	7047728		1081	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss > 30cm	Wet	Good	Silt	Rusty Rock Chip	Small Sample
1539016	LS01	8/16/2017 0:00	08N	433658	7047750		1075	Auger	80	C	Subtle Slope	Dark Olivine Green	Black Spruce	Sphagnum Moss > 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539017	LS01	8/16/2017 0:00	08N	433647	7047774		1071	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	
1539018	LS01	8/16/2017 0:00	08N	433637	7047795		1062	Auger	90	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss > 30cm	Damp	Good	Sand	Bright Orange Rust	
1539019	LS01	8/16/2017 0:00	08N	433625	7047819		1065	Auger	100	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Rusty Rock Chip
1539020	LS01	8/16/2017 0:00	08N	433617	7047841		1063	Auger	70	C	Subtle Slope	Grey	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539021	LS01	8/16/2017 0:00	08N	433603	7047863		1066	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Rusty Rock Chip
1539022	LS01	8/16/2017 0:00	08N	433593	7047886		1064	Auger	80	C	Flat	Grey	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539023	LS01	8/16/2017 0:00	08N	433583	7047909		1066	Auger	50	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539024	LS01	8/16/2017 0:00	08N	433473	7048133		1037	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Quartz Chips	Dull Red Rust
1539025	LS01	8/16/2017 0:00	08N	433473	7048133	1539024	1037	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Quartz Chips	
1539026	LS01	8/16/2017 0:00	08N	433483	7048113		1041	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Sandy
1539027	LS01	8/16/2017 0:00	08N	433494	7048091		1044	Auger	50	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Quartz Chips	Dull Red Rust
1539028	LS01	8/16/2017 0:00	08N	433505	7048067		1050	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Bright Orange Rust
1539029	LS01	8/16/2017 0:00	08N	433514	7048045		1053	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	
1539030	LS01	8/16/2017 0:00	08N	433529	7048023		1056	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Bright Orange Rust	
1539031	LS01	8/16/2017 0:00	08N	433536	7048000		1057	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Sandy
1539032	LS01	8/16/2017 0:00	08N	433548	7047977		1059	Auger	70	C	Subtle Slope	Grey	Black Spruce	Reindeer Moss	Damp	Good	Silt	Coarse	Organic 10%
1539033	LS01	8/16/2017 0:00	08N	433559	7047954		1062	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539034	LS01	8/16/2017 0:00	08N	433568	7047931		1063	Auger	60	C	Flat	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Quartz Chips	Dull Red Rust
1539066	LS01	8/18/2017 0:00	08N	432934	7050153		753	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	
1539067	LS01	8/18/2017 0:00	08N	432944	7050126		761	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Organic 10%	Dull Red Rust
1539068																			

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1539083	LS01	8/18/2017 0:00	08N	433103	7049792		794	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	Rusty Rock Chip
1539084	LS01	8/18/2017 0:00	08N	433120	7049770		795	Auger	90	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Dull Red Rust	Sandy
1539085	LS01	8/18/2017 0:00	08N	433130	7049748		796	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Coarse
1539086	LS01	8/18/2017 0:00	08N	433142	7049725		798	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Fine
1539087	LS01	8/18/2017 0:00	08N	433154	7049704		800	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Silt	Rusty Rock Chip	Sandy
1539088	LS01	8/18/2017 0:00	08N	433162	7049680		802	Auger	60	C	Flat	Dark Olivine Green	Black Spruce	Reindeer Moss	Wet	Good	Silt	Organic 10%	
1539089	LS01	8/18/2017 0:00	08N	433173	7049658		803	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Silt	Dull Red Rust	Sandy
1539090	LS01	8/18/2017 0:00	08N	433183	7049634		806	Auger	70	C	Flat	Dark Olivine Green	Black Spruce	Sphagnum Moss < 30cm	Wet	Good	Silt	Organic 10%	
1539091	LS01	8/18/2017 0:00	08N	433195	7049614		807	Auger	60	B	Flat	Dark Brown	Pine	Sphagnum Moss > 30cm	Wet	Excellent	Silt	Organic 10%	Sandy
1539092	LS01	8/18/2017 0:00	08N	433207	7049591		810	Auger	70	C	Flat	Grey	Black Spruce	Reindeer Moss	Wet	Good	Silt	Sandy	Fine
1539093	LS01	8/18/2017 0:00	08N	433217	7049569		812	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Silt	Dull Red Rust	Fine
1539094	LS01	8/18/2017 0:00	08N	433229	7049546		816	Auger	60	B	Subtle Slope	Dark Brown	Black Spruce	Sphagnum Moss < 30cm	Wet	Good	Silt	Organic 10%	Mud
1539095	LS01	8/18/2017 0:00	08N	433235	7049520		819	Auger	60	B	Flat	Bluish Grey	Black Spruce	Sphagnum Moss < 30cm	Wet	Excellent	Silt	Quartz Chips	Sandy
1539096	LS01	8/18/2017 0:00	08N	433252	7049502		822	Auger	70	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Wet	Good	Silt	Bright Orange Rust	Rusty Rock Chip
1539097	LS01	8/18/2017 0:00	08N	433257	7049477		827	Auger	50	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Organic 10%
1539098	LS01	8/18/2017 0:00	08N	433273	7049456		830	Auger	70	C	Subtle Slope	Greyish Green	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	Dull Red Rust
1539099	LS01	8/18/2017 0:00	08N	433283	7049433		833	Auger	70	C	Flat	Grey	Black Spruce	Reindeer Moss	Damp	Good	Silt	Sandy	Fine
1539100	LS01	8/18/2017 0:00	08N	433283	7049433	1539099	833	Auger	70	C	Flat	Grey	Black Spruce	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1539101	LS01	8/19/2017 0:00	08N	430814	7046057		1211	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1539102	LS01	8/19/2017 0:00	08N	430801	7046079		1211	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	
1539103	LS01	8/19/2017 0:00	08N	430789	7046102		1210	Auger	90	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539104	LS01	8/19/2017 0:00	08N	430780	7046120		1207	Auger	100	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1539105	LS01	8/19/2017 0:00	08N	430771	7046149		1204	Auger	100	C	Flat	Greyish Green	Balsam Fir	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Dull Red Rust	Sandy
1539106	LS01	8/19/2017 0:00	08N	430759	7046170		1198	Auger	80	C	Subtle Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Excellent	Silt	Quartz Chips	Coarse
1539107	LS01	8/19/2017 0:00	08N	430748	7046192		1192	Auger	90	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539108	LS01	8/19/2017 0:00	08N	430738	7046216		1188	Auger	80	C	Flat	Chocolate Brown	Willows	Leaf Cover	Damp	Good	Silt	Coarse	Dull Red Rust
1539109	LS01	8/19/2017 0:00	08N	430723	7046237		1182	Auger	90	C	Subtle Slope	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1539110	LS01	8/19/2017 0:00	08N	430713	7046259		1176	Auger	80	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Quartz Chips	Dull Red Rust
1539111	LS01	8/19/2017 0:00	08N	430704	7046282		1170	Auger	70	C	Subtle Slope	Grey	Willows	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Quartz Chips	Rusty Rock Chip
1539112	LS01	8/19/2017 0:00	08N	430671	7046574		1100	Auger	50	C	Subtle Slope	Grey	Black Spruce	Sphagnum Moss < 30cm	Wet	Good	Silt	Sandy	Organic 10%
1539113	LS01	8/19/2017 0:00	08N	430686	7046552		1112	Auger	80	C	Subtle Slope	Dark Brown	Black Spruce	Sphagnum Moss < 30cm	Wet	Good	Silt	Sandy	Fine
1539114	LS01	8/19/2017 0:00	08N	430694	7046529		1119	Auger	60	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Dull Red Rust	
1539115	LS01	8/19/2017 0:00	08N	430706	7046506		1126	Mattock	50	C	Flat	Grey	Black Spruce	Reindeer Moss	Wet	Good	Silt	Dull Red Rust	Sandy
1539116	LS01	8/19/2017 0:00	08N	430716	7046483		1132	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539117	LS01	8/19/2017 0:00	08N	430725	7046460		1140	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip
1539118	LS01	8/19/2017 0:00	08N	430737	7046437		1145	Auger	70	C	Flat	Chocolate Brown	Willows	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1539119	LS01	8/19/2017 0:00	08N	430749	7046416		1150	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539120	LS01	8/19/2017 0:00	08N	430760	7046394		1155	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Good	Silt	Rusty Rock Chip	Fine
1539121	LS01	8/19/2017 0:00	08N	430769	7046371		1158	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1539122	LS01	8/19/2017 0:00	08N	430780	7046347		1163	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	Quartz Chips
1539123	LS01	8/19/2017 0:00	08N	430793	7046326		1168	Auger	110	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Dull Red Rust	Quartz Chips
1539124	LS01	8/19/2017 0:00	08N	430803	7046303		1176	Auger	60	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1539125	LS01	8/19/2017 0:00	08N	430803	7046303	1539124	1176	Auger	80	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Fine
1539126	LS01	8/19/2017 0:00	08N	430814	7046281		1181	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1539127	LS01	8/19/2017 0:00	08N	430827	7046259		1184	Auger	60	C	Flat	Chocolate Brown	Balsam Fir	Leaf Cover	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1539128	LS01	8/19/2017 0:00	08N	430838	7046237		1190	Auger	80	C	Subtle Slope	Chocolate Brown	Willows	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539129	LS01	8/19/2017 0:00	08N	430847	7046212		1194	Auger	90	C	Subtle Slope	Chocolate Brown	Balsam Fir	Leaf Cover	Damp	Excellent	Silt	Dull Red Rust	Quartz Chips
1539130	LS01	8/19/2017 0:00	08N	430859	7046191		1198	Auger	90	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539131	LS01	8/19/2017 0:00	08N	430868	7046167		1201	Auger	80	C	Subtle Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1539132	LS01	8/19/2017 0:00	08N	430880	7046150		1204	Auger	70	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1539133	LS01	8/19/2017 0:00	08N	430892	7046124		1207	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1539134	LS01	8/19/2017 0:00	08N	430902	7046102		1209	Auger	80	C	Subtle Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1539135	LS01	8/20/2017 0:00	08N	427719	7045105		1243	Auger	80	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1539136	LS01	8/20/2017 0:00	08N	427728	7045082		1244	Auger	60	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1539137	LS01	8/20/2017 0:00	08N	427742	7045060		1244	Auger	80	C	Flat	Chocolate Brown	Willows	Reindeer Moss	Damp	Good	Silt	Quartz Chips	
1539138	LS01	8/20/2017 0:00	08N	427751	7045041		1244	Auger	80	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539139	LS01	8/20/2017 0:00	08N	427764	7045015		1243	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1539140	LS01	8/20/2017 0:00	08N	427776	7044993		1243	Auger	70	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1539141	LS01	8/20/2017 0:00	08N	427784	7044968		1242	Auger	80	C	Flat	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	
1539142	LS01	8/20/2017 0:00	08N	427796	7044945		1240	Auger	90	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt		
1539143	LS01	8/20/2017 0:00	08N	427809	7044926		1239	Auger	60	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Good	Silt	Organic 10%	Rusty Rock Chip
1539144	LS01	8/20/2017 0:00	08N	427818	7044902		1238	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Sandy	Dull Red Rust
1539145	LS01	8/20/2017 0:00	08N	427828	7044881		1235	Auger	70	C	Flat	Chocolate Brown	Willows	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	
1539146	LS01	8/20/2017 0:00	08N	427841	7044856		1231	Auger	60	C	Subtle Slope	Chocolate Brown	Willows	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1539147	LS01	8/20/2017 0:00	08N	427851	7044834		1226	Auger	90	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1539148	LS01	8/20/2017 0:00	08N	427862	7044811		1222	Auger	80	C	Subtle Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1539149	LS01	8/20/2017 0:00	08N	427875	7044790		1217	Auger	80	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	
1539150	LS01	8/20/2017 0:00	08N	427875	7044790	1539149	1217	Auger	70	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1539151	LS01	8/20/2017 0:00	08N	427884	7044766		1211	Auger	60	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip
1539152	LS01	8/20/2017 0:00	08N	427896	7044746		1208	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
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Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1539169	LS01	8/20/2017 0:00	08N	427969	7044588		1173	Auger	80	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Quartz Chips
1539170	LS01	8/20/2017 0:00	08N	427956	7044609		1178	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1539171	LS01	8/20/2017 0:00	08N	427946	7044631		1188	Auger	60	C	Subtle Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Fine
1539172	LS01	8/20/2017 0:00	08N	427934	7044654		1192	Auger	60	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1539173	LS01	8/20/2017 0:00	08N	427925	7044677		1196	Auger	70	C	Subtle Slope	Chocolate Brown	Balsam Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1539174	LS01	8/20/2017 0:00	08N	427914	7044700		1200	Auger	90	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1539175	LS01	8/20/2017 0:00	08N	427914	7044700	1539174	1200	Auger	70	C	Flat	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1545251	ZM01	8/16/2017 0:00	08N	433285	7047152		1208	Auger	100	C	Flat	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Dry	Good	Sand	Fine	
1545252	ZM01	8/16/2017 0:00	08N	433274	7047173		1208	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	
1545253	ZM01	8/16/2017 0:00	08N	433262	7047196		1207	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Terrain
1545254	ZM01	8/16/2017 0:00	08N	433250	7047218		1204	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1545255	ZM01	8/16/2017 0:00	08N	433241	7047241		1202	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Sandy
1545256	ZM01	8/16/2017 0:00	08N	433231	7047264		1201	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1545257	ZM01	8/16/2017 0:00	08N	433219	7047286		1199	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545258	ZM01	8/16/2017 0:00	08N	433208	7047307		1197	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545259	ZM01	8/16/2017 0:00	08N	433197	7047331		1193	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545260	ZM01	8/16/2017 0:00	08N	433187	7047353		1189	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Dull Red Rust
1545261	ZM01	8/16/2017 0:00	08N	433176	7047375		1186	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Dull Red Rust
1545262	ZM01	8/16/2017 0:00	08N	433164	7047397		1183	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Dull Red Rust
1545263	ZM01	8/16/2017 0:00	08N	433153	7047421		1177	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	Dull Red Rust
1545264	ZM01	8/16/2017 0:00	08N	433142	7047443		1172	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Dull Red Rust
1545265	ZM01	8/16/2017 0:00	08N	433131	7047465		1169	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545266	ZM01	8/16/2017 0:00	08N	433120	7047488		1165	Auger	100	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	Dull Red Rust
1545267	ZM01	8/16/2017 0:00	08N	433110	7047511		1162	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545268	ZM01	8/16/2017 0:00	08N	433098	7047532		1158	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Dull Red Rust
1545269	ZM01	8/16/2017 0:00	08N	433086	7047555		1153	Auger	100	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Bright Orange Rust
1545270	ZM01	8/16/2017 0:00	08N	433077	7047578		1150	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Wet Soil
1545271	ZM01	8/16/2017 0:00	08N	433064	7047600		1146	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1545272	ZM01	8/16/2017 0:00	08N	433055	7047623		1142	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1545273	ZM01	8/16/2017 0:00	08N	433044	7047645		1139	Auger	80	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Fine
1545274	ZM01	8/16/2017 0:00	08N	432933	7047871		1087	Auger	40	C	Subtle Slope	Reddish Yellow	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Dull Red Rust
1545275	ZM01	8/16/2017 0:00	08N	432933	7047871		1087	Auger	40	C	Subtle Slope	Reddish Yellow	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Dull Red Rust
1545276	ZM01	8/16/2017 0:00	08N	433031	7047668		1133	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Terrain
1545277	ZM01	8/16/2017 0:00	08N	433021	7047690		1127	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Rocky Sample
1545278	ZM01	8/16/2017 0:00	08N	433010	7047713		1123	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Terrain
1545279	ZM01	8/16/2017 0:00	08N	432999	7047736		1117	Auger	60	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1545280	ZM01	8/16/2017 0:00	08N	432989	7047759		1110	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Rocky Sample
1545281	ZM01	8/16/2017 0:00	08N	432976	7047780		1104	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Bright Orange Rust	Rocky Terrain
1545282	ZM01	8/16/2017 0:00	08N	432966	7047802		1099	Auger	50	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Rocky Terrain
1545283	ZM01	8/16/2017 0:00	08N	432955	7047826		1091	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Bright Orange Rust
1545284	ZM01	8/16/2017 0:00	08N	432944	7047848		1088	Auger	80	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Rocky Sample
1545319	DB02	8/19/2017 0:00	08N	431803	7046762		1195	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545320	DB02	8/19/2017 0:00	08N	431792	7046784		1195	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Clay	Sandy	Wet Soil
1545321	DB02	8/19/2017 0:00	08N	431780	7046806		1200	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Clay	Partially Frozen	Wet Soil
1545322	DB02	8/19/2017 0:00	08N	431770	7046829		1193	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay	Sandy	
1545344	DB02	8/18/2017 0:00	08N	433115	7048179		1074	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545345	DB02	8/18/2017 0:00	08N	433103	7048200		1061	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1545346	DB02	8/18/2017 0:00	08N	433093	7048223		1060	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545347	DB02	8/18/2017 0:00	08N	433081	7048246		1059	Auger	70	C	Subtle Slope	Light Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545348	DB02	8/18/2017 0:00	08N	433070	7048268		1040	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1545351	DB02	8/18/2017 0:00	08N	432883	7048651		971	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Clay	
1545352	DB02	8/18/2017 0:00	08N	432874	7048673		949	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Clay
1545353	DB02	8/18/2017 0:00	08N	432862	7048696		926	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay	Sandy	
1545354	DB02	8/18/2017 0:00	08N	432852	7048719		929	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545355	DB02	8/18/2017 0:00	08N	432841	7048741		931	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	
1545356	DB02	8/18/2017 0:00	08N	432829	7048763		943	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Clay	Wet Soil	Sandy
1545357	DB02	8/18/2017 0:00	08N	432819	7048785		920	Auger	100	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545358	DB02	8/18/2017 0:00	08N	432807	7048808		923	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Sand	Wet Soil	
1545359	DB02	8/18/2017 0:00	08N	432796	7048830		899	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Dry	Excellent	Sand	Fine	
1545360	DB02	8/18/2017 0:00	08N	432786	7048853		918	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Clay	
1545361	DB02	8/18/2017 0:00	08N	432773	7048876		910	Auger	100	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Clay	
1545362	DB02	8/18/2017 0:00	08N	432763	7048898		917	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Clay	
1545363	DB02	8/19/2017 0:00	08N	431846	7046673		1209	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545364	DB02	8/19/2017 0:00	08N	431835	7046695		1213	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay	Sandy	Bright Orange Rust
1545365	DB02	8/19/2017 0:00	08N	431825	7046716		1207	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1545366	DB02	8/19/2017 0:00	08N	431814	7046740		1201	Auger	70	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545367	ZM01	8/19/2017 0:00	08N	432026	7046762		1211	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Sandy	
1545368	ZM01	8/19/2017 0:00	08N	432014	7046783		1209	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Terrain
1545369	ZM01	8/19/2017 0:00	08N	432004	7046805		1204	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Rocky Terrain
1545370	ZM01	8/19/2017 0:00	08N	431994	7046830		1199	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Bright Orange Rust	Rocky Terrain
1545371	ZM01	8/19/2017 0:00	08N	431984	7046851		1195	Auger	60	C	Subtle Slope	Chocolate Brown</							

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Eastings	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1545387	ZM01	8/19/2017 0:00	08N	431771	7047055		1154	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Bright Orange Rust	Partially Frozen
1545388	ZM01	8/19/2017 0:00	08N	431782	7047033		1157	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545389	ZM01	8/19/2017 0:00	08N	431794	7047011		1161	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545390	ZM01	8/19/2017 0:00	08N	431805	7046988		1165	Auger	90	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Fine
1545391	ZM01	8/19/2017 0:00	08N	431815	7046965		1169	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Rocky Terrain
1545392	ZM01	8/19/2017 0:00	08N	431827	7046942		1171	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545393	ZM01	8/19/2017 0:00	08N	431837	7046920		1176	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1545394	ZM01	8/19/2017 0:00	08N	431848	7046897		1178	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Rusty Rock Chip
1545395	ZM01	8/19/2017 0:00	08N	431859	7046874		1182	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Dull Red Rust	Rocky Sample
1545396	ZM01	8/19/2017 0:00	08N	431870	7046852		1186	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rusty Rock Chip	Rocky Sample
1545397	ZM01	8/19/2017 0:00	08N	431880	7046830		1189	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Sample	Bright Orange Rust
1545398	ZM01	8/19/2017 0:00	08N	431891	7046807		1192	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545399	ZM01	8/19/2017 0:00	08N	431924	7046739		1201	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545400	ZM01	8/19/2017 0:00	08N	431924	7046739		1201	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545401	ZM01	8/19/2017 0:00	08N	431905	7046785		1196	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	Fine
1545402	ZM01	8/19/2017 0:00	08N	431914	7046763		1198	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Rocky Sample	Bright Orange Rust
1545403	DB02	8/19/2017 0:00	08N	431759	7046852		1188	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Clay	Sandy	
1545404	DB02	8/19/2017 0:00	08N	431748	7046876		1180	Auger	100	C	Subtle Slope	Light Brown	Subalpine Fir	Bare Soil	Wet	Good	Clay	Wet Soil	
1545405	DB02	8/19/2017 0:00	08N	431738	7046897		1184	Auger	90	C	Subtle Slope	Grey	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1545406	DB02	8/19/2017 0:00	08N	431726	7046919		1181	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay	Bright Orange Rust	
1545407	DB02	8/19/2017 0:00	08N	431715	7046942		1181	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545408	DB02	8/19/2017 0:00	08N	431703	7046965		1172	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Dry	Good	Sand	Fine	
1545409	DB02	8/19/2017 0:00	08N	431693	7046986		1174	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545410	DB02	8/19/2017 0:00	08N	431682	7047010		1180	Auger	80	C	Subtle Slope	Light Brown	Dwarf Birch	Reindeer Moss	Dry	Good	Sand	Fine	
1545411	DB02	8/19/2017 0:00	08N	431670	7047032		1183	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1545412	DB02	8/19/2017 0:00	08N	431582	7046988		1169	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Excellent	Sand	Clay	
1545413	DB02	8/19/2017 0:00	08N	431593	7046968		1185	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay	Sandy	
1545414	DB02	8/19/2017 0:00	08N	431604	7046945		1181	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Partially Frozen	
1545415	DB02	8/19/2017 0:00	08N	431613	7046922		1173	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Clay	Partially Frozen	
1545416	DB02	8/19/2017 0:00	08N	431625	7046901		1176	Auger	80	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Clay	
1545417	DB02	8/19/2017 0:00	08N	431635	7046877		1186	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Clay	Wet Soil	
1545418	DB02	8/19/2017 0:00	08N	431647	7046855		1185	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Clay	Partially Frozen	
1545419	DB02	8/19/2017 0:00	08N	431658	7046832		1203	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Clay	Sandy	Wet Soil
1545420	DB02	8/19/2017 0:00	08N	431667	7046810		1198	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545421	DB02	8/19/2017 0:00	08N	431679	7046787		1182	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Clay	
1545422	DB02	8/19/2017 0:00	08N	431690	7046765		1186	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Wet Soil	
1545423	DB02	8/19/2017 0:00	08N	431702	7046743		1197	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1545424	DB02	8/19/2017 0:00	08N	431713	7046720		1197	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand		
1545425	DB02	8/19/2017 0:00	08N	431713	7046720	1545424	1204	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand		
1545426	DB02	8/19/2017 0:00	08N	431723	7046697		1197	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand		
1545427	DB02	8/19/2017 0:00	08N	431735	7046675		1210	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1545428	DB02	8/19/2017 0:00	08N	431746	7046651		1216	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Sandy	
1545429	DB02	8/19/2017 0:00	08N	431759	7046629		1202	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Quartz Chips	
1545430	DB02	8/19/2017 0:00	08N	431767	7046608		1204	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1545431	DB02	8/19/2017 0:00	08N	431780	7046585		1228	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1545432	DB02	8/19/2017 0:00	08N	431790	7046563		1231	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1545433	DB02	8/19/2017 0:00	08N	431800	7046540		1219	Auger	60	C	Subtle Slope	Light Brown	Dwarf Birch	Thin Moss Cover	Dry	Excellent	Sand	Fine	
1545436	ZM01	8/20/2017 0:00	08N	427927	7045821		1171	Auger	50	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Wet	Poor	Silt	Frozen	Organic 10%
1545437	ZM01	8/20/2017 0:00	08N	427937	7045800		1180	Auger	40	B	Subtle Slope	Dark Grey Black	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Poor	Silt	Rocky Terrain	Organic 25%
1545438	ZM01	8/20/2017 0:00	08N	427950	7045776		1188	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Rocky Terrain
1545439	ZM01	8/20/2017 0:00	08N	427959	7045754		1194	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Quartz Chips
1545440	ZM01	8/20/2017 0:00	08N	427970	7045732		1200	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1545441	ZM01	8/20/2017 0:00	08N	427983	7045709		1204	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Bright Orange Rust	Rocky Terrain
1545442	ZM01	8/20/2017 0:00	08N	427994	7045688		1208	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Bright Orange Rust	Sandy
1545443	ZM01	8/20/2017 0:00	08N	428003	7045664		1210	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Rocky Sample
1545444	ZM01	8/20/2017 0:00	08N	428016	7045642		1213	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Dull Red Rust
1545445	ZM01	8/20/2017 0:00	08N	428025	7045620		1215	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545446	ZM01	8/20/2017 0:00	08N	428036	7045597		1219	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Sample	Rocky Terrain
1545447	ZM01	8/20/2017 0:00	08N	428048	7045574		1223	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rusty Rock Chip	Rocky Terrain
1545448	ZM01	8/20/2017 0:00	08N	428059	7045552		1225	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545449	ZM01	8/20/2017 0:00	08N	428106	7045909		1175	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rusty Rock Chip	Rocky Terrain
1545450	ZM01	8/20/2017 0:00	08N	428106	7045909		1175	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rusty Rock Chip	Rocky Terrain
1545451	ZM01	8/20/2017 0:00	08N	428070	7045529		1228	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Fine
1545452	ZM01	8/20/2017 0:00	08N	428080	7045506		1229	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Dull Red Rust	Rusty Rock Chip
1545453	ZM01	8/20/2017 0:00	08N	428092	7045485		1230	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rocky Terrain	Rusty Rock Chip
1545454	ZM01	8/20/2017 0:00	08N	428103	7045463		1231	Auger	70	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1545455	ZM01	8/20/2017 0:00	08N	428282	7045548		1225	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Fine
1545456	ZM01	8/20/2017 0:00	08N	428272	7045573		1223	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Sandy
1545457	ZM01	8/20/2017 0:00	08N	428261	7045596		1220	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545458	ZM01	8/20/2017 0:00	08N	428250	7045617		1218	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1545459	ZM01	8/20/2017 0:00	08N	428239	7045640		1216	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sph					

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Eastings	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1545480	DB02	8/20/2017 0:00	08N	428881	7046148		1189	Auger	90	C	Subtle Slope	Grey	Subalpine Fir	Thin Moss Cover	Dry	Good	Silt	Sandy	
1545481	DB02	8/20/2017 0:00	08N	428870	7046170		1186	Auger	80	C	Subtle Slope	Light Brown	Dwarf Birch	Thin Moss Cover	Damp	Good	Silt	Sandy	
1545482	DB02	8/20/2017 0:00	08N	428858	7046192		1167	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt		
1545483	DB02	8/20/2017 0:00	08N	428847	7046215		1173	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Dry	Good	Silt	Sandy	
1545484	DB02	8/20/2017 0:00	08N	428836	7046238		1175	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1545485	DB02	8/20/2017 0:00	08N	428826	7046259		1183	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	
1545501	AB01	8/16/2017 0:00	08N	433644	7047327		1175	Auger	60	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545502	AB01	8/16/2017 0:00	08N	433634	7047348		1175	Auger	70	C	Subtle Slope	Chocolate Brown	Balsam Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1545503	AB01	8/16/2017 0:00	08N	433623	7047371		1172	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	
1545504	AB01	8/16/2017 0:00	08N	433611	7047394		1170	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	
1545505	AB01	8/16/2017 0:00	08N	433601	7047416		1167	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545506	AB01	8/16/2017 0:00	08N	433590	7047439		1166	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545507	AB01	8/16/2017 0:00	08N	433579	7047460		1164	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Bright Orange Rust
1545508	AB01	8/16/2017 0:00	08N	433568	7047483		1162	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1545509	AB01	8/16/2017 0:00	08N	433557	7047506		1159	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	
1545510	AB01	8/16/2017 0:00	08N	433546	7047528		1156	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545511	AB01	8/16/2017 0:00	08N	433535	7047552		1152	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Good	Silt	Fine	
1545512	AB01	8/16/2017 0:00	08N	433524	7047573		1149	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Wet	Good	Sand	Fine	Bright Orange Rust
1545513	AB01	8/16/2017 0:00	08N	433513	7047595		1145	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Wet	Good	Silt	Fine	
1545514	AB01	8/16/2017 0:00	08N	433501	7047618		1142	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Rocky Sample	Rocky Terrain
1545515	AB01	8/16/2017 0:00	08N	433491	7047642		1140	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	
1545516	AB01	8/16/2017 0:00	08N	433468	7047686		1154	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Good	Silt	Fine	
1545517	AB01	8/16/2017 0:00	08N	433479	7047664		1138	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545518	AB01	8/16/2017 0:00	08N	433457	7047709		1132	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	
1545519	AB01	8/16/2017 0:00	08N	433447	7047731		1128	Auger	40	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	
1545520	AB01	8/16/2017 0:00	08N	433436	7047753		1127	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545521	AB01	8/16/2017 0:00	08N	433424	7047775		1127	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1545522	AB01	8/16/2017 0:00	08N	433414	7047797		1123	Auger	70	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Rocky Sample	
1545523	AB01	8/16/2017 0:00	08N	433403	7047821		1115	Auger	40	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545524	AB01	8/16/2017 0:00	08N	433393	7047842		1111	Auger	70	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545525	AB01	8/16/2017 0:00	08N	433393	7047842		1110	Auger	60	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545526	AB01	8/16/2017 0:00	08N	433381	7047866		1105	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Fine	
1545527	AB01	8/16/2017 0:00	08N	433370	7047889		1102	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Bright Orange Rust	Rocky Sample
1545528	AB01	8/16/2017 0:00	08N	433359	7047912		1098	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545529	AB01	8/16/2017 0:00	08N	433348	7047933		1094	Auger	60	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	Bright Orange Rust
1545530	AB01	8/16/2017 0:00	08N	433336	7047955		1089	Auger	60	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545531	AB01	8/16/2017 0:00	08N	433326	7047978		1084	Auger	80	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Bright Orange Rust	
1545532	AB01	8/16/2017 0:00	08N	433314	7048001		1079	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	
1545533	AB01	8/16/2017 0:00	08N	433304	7048024		1075	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Bright Orange Rust
1545534	AB01	8/16/2017 0:00	08N	433294	7048045		1072	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Bright Orange Rust	
1545567	AB01	8/18/2017 0:00	08N	432752	7050063		755	Auger	40	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545568	AB01	8/18/2017 0:00	08N	432764	7050040		758	Auger	60	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545569	AB01	8/18/2017 0:00	08N	432775	7050019		760	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1545570	AB01	8/18/2017 0:00	08N	432784	7049997		764	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	
1545571	AB01	8/18/2017 0:00	08N	432796	7049974		766	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	
1545572	AB01	8/18/2017 0:00	08N	432807	7049952		768	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Partially Frozen	
1545573	AB01	8/18/2017 0:00	08N	432819	7049927		770	Auger	50	B	Subtle Slope	Chocolate Brown	Willows	Thin Moss Cover	Damp	Good	Silt	Partially Frozen	
1545574	AB01	8/18/2017 0:00	08N	432830	7049907		781	Auger	110	B	Subtle Slope	Chocolate Brown	Willows	Reindeer Moss	Wet	Good	Silt	Bright Orange Rust	
1545575	AB01	8/18/2017 0:00	08N	432830	7049907		781	Auger	110	B	Subtle Slope	Chocolate Brown	Willows	Reindeer Moss	Wet	Good	Silt	Wet Soil	
1545576	AB01	8/18/2017 0:00	08N	432841	7049885		782	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	
1545577	AB01	8/18/2017 0:00	08N	432851	7049861		784	Auger	40	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Dry	Good	Silt	Rocky Sample	
1545578	AB01	8/18/2017 0:00	08N	432862	7049839		784	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Coarse	
1545579	AB01	8/18/2017 0:00	08N	432874	7049814		783	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545580	AB01	8/18/2017 0:00	08N	432883	7049793		783	Auger	40	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545581	AB01	8/18/2017 0:00	08N	432895	7049771		784	Auger	50	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545582	AB01	8/18/2017 0:00	08N	432905	7049749		786	Auger	40	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545583	AB01	8/18/2017 0:00	08N	432918	7049725		788	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Bright Orange Rust	Partially Frozen
1545584	AB01	8/18/2017 0:00	08N	432928	7049702		790	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545585	AB01	8/18/2017 0:00	08N	432939	7049681		791	Auger	40	B	Subtle Slope	Grey	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Partially Frozen	
1545586	AB01	8/18/2017 0:00	08N	432950	7049658		794	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545587	AB01	8/18/2017 0:00	08N	432962	7049636		796	Auger	50	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	Organic 10%
1545588	AB01	8/18/2017 0:00	08N	432971	7049613		798	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1545589	AB01	8/18/2017 0:00	08N	432983	7049591		801	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545590	AB01	8/18/2017 0:00	08N	432993	7049568		804	Auger	40	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	
1545591	AB01	8/18/2017 0:00	08N	433006	7049547		806	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Good	Silt	Fine	Partially Frozen
1545592	AB01	8/18/2017 0:00	08N	433015	7049525		809	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Fine	
1545593	AB01	8/18/2017 0:00	08N	433026	7049502		813	Auger	70	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Good	Silt	Partially Frozen	
1545594	AB01	8/18/2017 0:00	08N	433038	7049477		816	Auger	50	B	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	
1545595	AB01	8/18/2017 0:00	08N	433048	7049457		820	Auger	40	B	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Organic 10%	Partially Frozen
1545596	AB01	8/18/2017 0:00	08N	433061	7049434		827	Auger	40	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Organic 10%
1545597	AB01</																		

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1545637	AB01	8/20/2017 0:00	08N	428561	7044738		1186	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1545638	AB01	8/20/2017 0:00	08N	428552	7044759		1187	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Rocky Terrain	
1545639	AB01	8/20/2017 0:00	08N	428541	7044782		1188	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545640	AB01	8/20/2017 0:00	08N	428530	7044805		1190	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	Fine
1545641	AB01	8/20/2017 0:00	08N	428519	7044826		1191	Auger	80	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	Possible Creek Contamination
1545642	AB01	8/20/2017 0:00	08N	428508	7044849		1192	Auger	90	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	Possible Creek Contamination
1545643	AB01	8/20/2017 0:00	08N	428497	7044871		1194	Auger	60	C	Pronounced Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Bright Orange Rust	Rocky Terrain
1545644	AB01	8/20/2017 0:00	08N	428486	7044894		1200	Auger	60	C	Pronounced Slope	Chocolate Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Sand	Rocky Terrain	
1545645	AB01	8/20/2017 0:00	08N	428474	7044916		1203	Auger	80	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1545646	AB01	8/20/2017 0:00	08N	428463	7044940		1208	Auger	60	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Dull Red Rust
1545647	AB01	8/20/2017 0:00	08N	428452	7044962		1210	Auger	80	C	Subtle Slope	Light Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Sand	Bright Orange Rust	
1545648	AB01	8/20/2017 0:00	08N	428652	7044781		1185	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545649	AB01	8/20/2017 0:00	08N	428641	7044803		1189	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545650	AB01	8/20/2017 0:00	08N	428641	7044803		1189	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545651	AB01	8/20/2017 0:00	08N	428629	7044825		1191	Auger	60	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545652	AB01	8/20/2017 0:00	08N	428619	7044847		1194	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	
1545653	AB01	8/20/2017 0:00	08N	428608	7044870		1196	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545654	AB01	8/20/2017 0:00	08N	428596	7044893		1198	Auger	100	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545655	AB01	8/20/2017 0:00	08N	428586	7044916		1200	Auger	110	C	Subtle Slope	Light Brown	Dwarf Birch	Thin Moss Cover	Damp	Excellent	Silt	Bright Orange Rust	
1545656	AB01	8/20/2017 0:00	08N	428574	7044938		1203	Auger	60	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Fine	
1545657	AB01	8/20/2017 0:00	08N	428565	7044961		1208	Auger	70	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Silt	Quartz Chips	
1545658	AB01	8/20/2017 0:00	08N	428551	7044983		1213	Auger	60	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Thin Moss Cover	Damp	Good	Silt	Rocky Terrain	
1545659	AB01	8/20/2017 0:00	08N	428542	7045006		1217	Auger	70	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Bright Orange Rust	
1545783	CG01	8/18/2017 0:00	08N	433027	7050192		759	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545784	CG01	8/18/2017 0:00	08N	433037	7050174		758	Auger	60	C	Subtle Slope	Light Brown	Black Spruce	Leaf Cover	Damp	Good	Sand		
1545785	CG01	8/18/2017 0:00	08N	433043	7050150		761	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545786	CG01	8/18/2017 0:00	08N	433054	7050126		767	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545787	CG01	8/18/2017 0:00	08N	433065	7050104		772	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	
1545788	CG01	8/18/2017 0:00	08N	433077	7050082		775	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545789	CG01	8/18/2017 0:00	08N	433090	7050059		778	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545790	CG01	8/18/2017 0:00	08N	433099	7050037		780	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545791	CG01	8/18/2017 0:00	08N	433112	7050014		780	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545792	CG01	8/18/2017 0:00	08N	433121	7049992		782	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545793	CG01	8/18/2017 0:00	08N	433133	7049969		783	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545794	CG01	8/18/2017 0:00	08N	433147	7049947		785	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545795	CG01	8/18/2017 0:00	08N	433153	7049922		786	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545796	CG01	8/18/2017 0:00	08N	433162	7049900		787	Auger	110	C	Subtle Slope	Light Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545797	CG01	8/18/2017 0:00	08N	433175	7049879		788	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545798	CG01	8/18/2017 0:00	08N	433189	7049858		790	Auger	60	C	Flat	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545799	CG01	8/18/2017 0:00	08N	433203	7049836		790	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545800	CG01	8/18/2017 0:00	08N	433203	7049836	1545799	790	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545801	CG01	8/18/2017 0:00	08N	433211	7049810		792	Auger	110	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	
1545802	CG01	8/18/2017 0:00	08N	433221	7049788		793	Auger	90	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545803	CG01	8/18/2017 0:00	08N	433232	7049766		793	Auger	90	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545804	CG01	8/18/2017 0:00	08N	433242	7049739		793	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545805	CG01	8/18/2017 0:00	08N	433255	7049722		793	Auger	90	C	Subtle Slope	Grey	Black Spruce	Reindeer Moss	Wet	Good	Sand	Partially Frozen	
1545806	CG01	8/18/2017 0:00	08N	433264	7049698		795	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545807	CG01	8/18/2017 0:00	08N	433277	7049677		799	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545808	CG01	8/18/2017 0:00	08N	433287	7049655		802	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand	Quartz Chips	
1545809	CG01	8/18/2017 0:00	08N	433296	7049628		804	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545810	CG01	8/18/2017 0:00	08N	433309	7049607		806	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545811	CG01	8/18/2017 0:00	08N	433316	7049584		808	Auger	90	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545812	CG01	8/18/2017 0:00	08N	433333	7049564		812	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545813	CG01	8/18/2017 0:00	08N	433341	7049541		816	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545814	CG01	8/18/2017 0:00	08N	433354	7049517		817	Auger	70	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545815	CG01	8/18/2017 0:00	08N	433365	7049495		820	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1545816	CG01	8/18/2017 0:00	08N	433373	7049475		819	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Quartz Chips	
1545817	CG01	8/19/2017 0:00	08N	430641	7045724		1225	Auger	110	C	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545818	CG01	8/19/2017 0:00	08N	430628	7045746		1228	Auger	100	C	Subtle Slope	Chocolate Brown	Dwarf Birch	Reindeer Moss	Damp	Good	Sand		
1545819	CG01	8/19/2017 0:00	08N	430620	7045770		1229	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545820	CG01	8/19/2017 0:00	08N	430608	7045791		1230	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545821	CG01	8/19/2017 0:00	08N	430598	7045812		1231	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1545822	CG01	8/19/2017 0:00	08N	430587	7045838		1230	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545823	CG01	8/19/2017 0:00	08N	430576	7045860		1228	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545824	CG01	8/19/2017 0:00	08N	430565	7045884		1225	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1545825	CG01	8/19/2017 0:00	08N	430565	7045884	1545824	1225	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand		
1545826	CG01	8/19/2017 0:00	08N	430554	7045905		1221	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545827	CG01	8/19/2017 0:00	08N	430540	7045927		1217	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545828	CG01	8/19/2017 0:00	08N	430531	7045950		1213	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545829	CG01	8/19/2017 0:00	08N	430520	7045972		1209	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545830	CG01	8/19/2017 0:00	08N	430512	7045994		1202	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545831	CG01	8/19/2017 0:00	08N	430496	7046015		1198	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545832	CG01	8/19/2017 0:00	08N	430488															

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1545846	CG01	8/19/2017 0:00	08N	430681	7045882		1224	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545847	CG01	8/19/2017 0:00	08N	430688	7045855		1227	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545848	CG01	8/19/2017 0:00	08N	430699	7045835		1230	Auger	100	C	Flat	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545849	CG01	8/19/2017 0:00	08N	430710	7045811		1231	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545850	CG01	8/19/2017 0:00	08N	430710	7045811	1545849	1231	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545851	CG01	8/19/2017 0:00	08N	430723	7045789		1233	Auger	110	C	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545852	CG01	8/19/2017 0:00	08N	430731	7045770		1234	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545853	CG01	8/20/2017 0:00	08N	427361	7044929		1227	Auger	60	C	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545854	CG01	8/20/2017 0:00	08N	427372	7044906		1237	Auger	70	C	Flat	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545855	CG01	8/20/2017 0:00	08N	427381	7044883		1236	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545856	CG01	8/20/2017 0:00	08N	427396	7044861		1236	Auger	80	C	Flat	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545857	CG01	8/20/2017 0:00	08N	427404	7044839		1235	Auger	80	C	Flat	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545858	CG01	8/20/2017 0:00	08N	427416	7044816		1234	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545859	CG01	8/20/2017 0:00	08N	427424	7044791		1233	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545860	CG01	8/20/2017 0:00	08N	427438	7044770		1231	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545861	CG01	8/20/2017 0:00	08N	427448	7044748		1229	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545862	CG01	8/20/2017 0:00	08N	427461	7044727		1228	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545863	CG01	8/20/2017 0:00	08N	427468	7044703		1227	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545864	CG01	8/20/2017 0:00	08N	427484	7044684		1224	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand		
1545865	CG01	8/20/2017 0:00	08N	427490	7044658		1220	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545866	CG01	8/20/2017 0:00	08N	427503	7044636		1215	Auger	40	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	
1545867	CG01	8/20/2017 0:00	08N	427514	7044614		1209	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545868	CG01	8/20/2017 0:00	08N	427526	7044589		1204	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545869	CG01	8/20/2017 0:00	08N	427535	7044569		1201	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545870	CG01	8/20/2017 0:00	08N	427624	7044615		1204	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Bare Soil	Damp	Good	Sand		
1545871	CG01	8/20/2017 0:00	08N	427613	7044635		1209	Auger	40	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545872	CG01	8/20/2017 0:00	08N	427605	7044658		1216	Auger	40	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545873	CG01	8/20/2017 0:00	08N	427594	7044681		1221	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545874	CG01	8/20/2017 0:00	08N	427581	7044702		1223	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545875	CG01	8/20/2017 0:00	08N	427581	7044702	1545874	1223	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545901	CG01	8/20/2017 0:00	08N	427571	7044726		1227	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545902	CG01	8/20/2017 0:00	08N	427558	7044746		1229	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	
1545903	CG01	8/20/2017 0:00	08N	427547	7044771		1231	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545904	CG01	8/20/2017 0:00	08N	427537	7044795		1234	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545905	CG01	8/20/2017 0:00	08N	427527	7044815		1238	Auger	60	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545906	CG01	8/20/2017 0:00	08N	427517	7044842		1241	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Quartz Chips	
1545907	CG01	8/20/2017 0:00	08N	427503	7044861		1243	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545908	CG01	8/20/2017 0:00	08N	427494	7044883		1243	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545909	CG01	8/20/2017 0:00	08N	427482	7044906		1242	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand		
1545910	CG01	8/20/2017 0:00	08N	427471	7044929		1241	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545911	CG01	8/20/2017 0:00	08N	427464	7044952		1241	Auger	40	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1545912	CG01	8/20/2017 0:00	08N	427449	7044972		1240	Auger	60	C	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1546001	RD03	8/16/2017 0:00	08N	433464	7047240		1205	Auger	80	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Sandy
1546002	RD03	8/16/2017 0:00	08N	433453	7047261		1202	Auger	60	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Sandy
1546003	RD03	8/16/2017 0:00	08N	433442	7047283		1198	Auger	80	C	Subtle Slope	Light Grey	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	Rocky Terrain
1546004	RD03	8/16/2017 0:00	08N	433431	7047305		1196	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Rocky Terrain
1546005	RD03	8/16/2017 0:00	08N	433421	7047328		1193	Auger	90	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546006	RD03	8/16/2017 0:00	08N	433409	7047351		1188	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546007	RD03	8/16/2017 0:00	08N	433398	7047373		1183	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546008	RD03	8/16/2017 0:00	08N	433388	7047395		1178	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Quartz Chips
1546009	RD03	8/16/2017 0:00	08N	433376	7047418		1174	Auger	80	B	Subtle Slope	Dark Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	Clay
1546010	RD03	8/16/2017 0:00	08N	433365	7047441		1170	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Sandy
1546011	RD03	8/16/2017 0:00	08N	433355	7047463		1167	Auger	60	C	Subtle Slope	Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Bright Orange Rust	Rocky Terrain
1546012	RD03	8/16/2017 0:00	08N	433344	7047486		1165	Auger	90	C	Subtle Slope	Light Grey	Mixed Coniferous	Reindeer Moss	Damp	Excellent	Sand	Fine	Bright Orange Rust
1546013	RD03	8/16/2017 0:00	08N	433333	7047509		1165	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Quartz Chips	
1546014	RD03	8/16/2017 0:00	08N	433322	7047531		1163	Auger	80	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1546015	RD03	8/16/2017 0:00	08N	433310	7047553		1160	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Coarse	Rocky Sample
1546016	RD03	8/16/2017 0:00	08N	433300	7047576		1156	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Quartz Chips
1546017	RD03	8/16/2017 0:00	08N	433289	7047599		1152	Auger	80	B	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Fine	Clay
1546018	RD03	8/16/2017 0:00	08N	433278	7047620		1149	Auger	80	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Sand	Rusty Rock Chip	Bright Orange Rust
1546019	RD03	8/16/2017 0:00	08N	433268	7047643		1146	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Clay	Bright Orange Rust
1546020	RD03	8/16/2017 0:00	08N	433256	7047666		1142	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Wet Soil	Partially Frozen
1546021	RD03	8/16/2017 0:00	08N	433245	7047688		1139	Auger	70	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Wet Soil	Rocky Terrain
1546022	RD03	8/16/2017 0:00	08N	433234	7047711		1136	Auger	60	B	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Wet Soil	Sandy
1546023	RD03	8/16/2017 0:00	08N	433223	7047733		1133	Auger	60	B	Subtle Slope	Grey	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Partially Frozen	Wet Soil
1546024	RD03	8/16/2017 0:00	08N	433212	7047756		1144	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Sand	Fine	Partially Frozen
1546025	RD03	8/16/2017 0:00	08N	433212	7047756	1546024	1144	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Sand	Fine	Partially Frozen
1546026	RD03	8/16/2017 0:00	08N	433113	7047959		1093	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1546027	RD03	8/16/2017 0:00	08N	433124	7047937		1098	Auger	70	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546028	RD03	8/16/2017 0:00	08N	433135	7047914		1099	Auger	70	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546029	RD03	8/16/2017 0:00	08N	433146	7047893		1105	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Bright Orange Rust
1546030	RD03	8/16/2017 0:00	08N	433157	7047869		1110	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Dull	

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Eastings	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colour	site_veget	ground_cover	moisture	quality	texture	sample_not	sample_n_1
1546086	RD03	8/18/2017 0:00	08N	432917	7048361		1009	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546087	RD03	8/18/2017 0:00	08N	432905	7048383		1002	Auger	60	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546088	RD03	8/18/2017 0:00	08N	432894	7048406		995	Auger	70	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546089	RD03	8/18/2017 0:00	08N	432884	7048428		989	Auger	110	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Bright Orange Rust
1546090	RD03	8/18/2017 0:00	08N	432872	7048450		982	Auger	80	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip
1546091	RD03	8/18/2017 0:00	08N	432861	7048473		976	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546092	RD03	8/18/2017 0:00	08N	432850	7048496		969	Auger	60	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Rocky Terrain
1546093	RD03	8/18/2017 0:00	08N	432839	7048518		965	Auger	90	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	Rocky Terrain
1546094	RD03	8/18/2017 0:00	08N	432828	7048541		961	Auger	80	C	Subtle Slope	Grey	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Wet Soil	Clay
1546095	RD03	8/18/2017 0:00	08N	432816	7048563		954	Auger	80	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Rocky Terrain
1546096	RD03	8/18/2017 0:00	08N	432805	7048585		950	Auger	90	C	Subtle Slope	Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Bright Orange Rust
1546097	RD03	8/18/2017 0:00	08N	432794	7048608		945	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Clay	Rocky Terrain
1546098	RD03	8/18/2017 0:00	08N	432784	7048630		942	Auger	90	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Clay
1546099	RD03	8/18/2017 0:00	08N	432773	7048653		938	Auger	60	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Clay	Partially Frozen
1546100	RD03	8/18/2017 0:00	08N	432773	7048653	1546099	938	Auger	60	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Silt	Clay	Partially Frozen
1546101	RD03	8/18/2017 0:00	08N	432762	7048675		935	Auger	60	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Bright Orange Rust	Rusty Rock Chip
1546102	RD03	8/18/2017 0:00	08N	432750	7048697		930	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Bright Orange Rust
1546103	RD03	8/18/2017 0:00	08N	432739	7048721		924	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1546104	RD03	8/18/2017 0:00	08N	432728	7048743		918	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rocky Sample	Partially Frozen
1546105	RD03	8/18/2017 0:00	08N	432718	7048765		910	Auger	100	C	Subtle Slope	Bluish Grey	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Clay	Partially Frozen
1546106	RD03	8/18/2017 0:00	08N	432706	7048788		905	Auger	60	C	Subtle Slope	Bluish Grey	Black Spruce	Sphagnum Moss > 30cm	Damp	Good	Silt	Clay	Partially Frozen
1546107	RD03	8/18/2017 0:00	08N	432695	7048810		898	Auger	60	B	Subtle Slope	Dark Brown	Black Spruce	Sphagnum Moss > 30cm	Damp	Good	Silt	Partially Frozen	Sandy
1546108	RD03	8/18/2017 0:00	08N	432684	7048833		895	Auger	60	B	Subtle Slope	Dark Brown	Black Spruce	Sphagnum Moss > 30cm	Damp	Poor	Silt	Organic 10%	Partially Frozen
1546109	RD03	8/18/2017 0:00	08N	432673	7048855		890	Auger	50	B	Subtle Slope	Dark Brown	Black Spruce	Sphagnum Moss > 30cm	Damp	Poor	Silt	Organic 10%	Partially Frozen
1546110	RD03	8/19/2017 0:00	08N	432116	7046805		1193	Auger	80	C	Subtle Slope	Dark Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Fine	Rocky Terrain
1546111	RD03	8/19/2017 0:00	08N	432109	7046830		1198	Auger	80	C	Subtle Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Excellent	Sand	Rocky Terrain	Fine
1546112	RD03	8/19/2017 0:00	08N	432098	7046853		1197	Auger	90	C	Subtle Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546113	RD03	8/19/2017 0:00	08N	432087	7046875		1196	Auger	110	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	Rocky Sample
1546114	RD03	8/19/2017 0:00	08N	432075	7046897		1192	Auger	80	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Rocky Terrain
1546115	RD03	8/19/2017 0:00	08N	432064	7046919		1195	Auger	90	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Terrain
1546116	RD03	8/19/2017 0:00	08N	432051	7046942		1190	Auger	110	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Sample
1546117	RD03	8/19/2017 0:00	08N	432042	7046965		1184	Auger	90	C	Subtle Slope	Dark Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Quartz Chips	Rocky Sample
1546118	RD03	8/19/2017 0:00	08N	432031	7046987		1180	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Sample
1546119	RD03	8/19/2017 0:00	08N	432019	7047010		1177	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Silt	Sandy	Wet Soil
1546120	RD03	8/19/2017 0:00	08N	432007	7047032		1174	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rocky Terrain	Rocky Sample
1546121	RD03	8/19/2017 0:00	08N	431997	7047055		1169	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Sandy	Rocky Terrain
1546122	RD03	8/19/2017 0:00	08N	431985	7047076		1165	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	Rocky Terrain
1546123	RD03	8/19/2017 0:00	08N	431975	7047098		1162	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Sandy
1546124	RD03	8/19/2017 0:00	08N	431963	7047120		1159	Auger	70	B	Subtle Slope	Dark Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Sand	Fine	Partially Frozen
1546125	RD03	8/19/2017 0:00	08N	431963	7047120	1546124	1159	Auger	70	B	Subtle Slope	Dark Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Sand	Fine	Partially Frozen
1546126	RD03	8/19/2017 0:00	08N	431951	7047143		1155	Auger	110	C	Subtle Slope	Light Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Bright Orange Rust
1546127	RD03	8/19/2017 0:00	08N	431940	7047165		1152	Auger	80	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Clay	Partially Frozen
1546128	RD03	8/19/2017 0:00	08N	432030	7047209		1149	Auger	80	B	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Bright Orange Rust
1546129	RD03	8/19/2017 0:00	08N	432040	7047186		1154	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rusty Rock Chip
1546130	RD03	8/19/2017 0:00	08N	432051	7047164		1160	Auger	80	B	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Bright Orange Rust
1546131	RD03	8/19/2017 0:00	08N	432062	7047141		1165	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546132	RD03	8/19/2017 0:00	08N	432073	7047119		1169	Auger	60	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rusty Rock Chip
1546133	RD03	8/19/2017 0:00	08N	432083	7047096		1172	Auger	100	B	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Dull Red Rust
1546134	RD03	8/19/2017 0:00	08N	432095	7047074		1175	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546135	RD03	8/19/2017 0:00	08N	432106	7047051		1178	Auger	90	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Silt	Sandy	Rocky Terrain
1546136	RD03	8/19/2017 0:00	08N	432117	7047028		1181	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	Rocky Terrain
1546137	RD03	8/19/2017 0:00	08N	432127	7047007		1185	Auger	80	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Rocky Terrain	Rocky Sample
1546138	RD03	8/19/2017 0:00	08N	432138	7046983		1187	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Rocky Sample	Rocky Terrain
1546139	RD03	8/19/2017 0:00	08N	432150	7046961		1191	Auger	110	C	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Rocky Sample
1546140	RD03	8/19/2017 0:00	08N	432160	7046939		1195	Auger	80	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546141	RD03	8/19/2017 0:00	08N	432172	7046917		1196	Auger	100	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Sandy
1546142	RD03	8/19/2017 0:00	08N	432183	7046894		1200	Auger	70	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1546143	RD03	8/19/2017 0:00	08N	432194	7046872		1202	Auger	70	B	Subtle Slope	Dark Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	Sandy
1546144	RD03	8/19/2017 0:00	08N	432206	7046848		1207	Auger	70	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rocky Terrain	Dull Red Rust
1546151	RD03	8/20/2017 0:00	08N	429185	7046435		1126	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Rocky Sample
1546152	RD03	8/20/2017 0:00	08N	429197	7046413		1133	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Loess
1546153	RD03	8/20/2017 0:00	08N	429208	7046391		1137	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Loess
1546154	RD03	8/20/2017 0:00	08N	429219	7046368		1142	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Rocky Terrain	Quartz Chips
1546155	RD03	8/20/2017 0:00	08N	429230	7046346		1144	Auger	100	B	Subtle Slope	Light Grey	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1546156	RD03	8/20/2017 0:00	08N	429241	7046322		1149	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Rocky Sample
1546157	RD03	8/20/2017 0:00	08N	429252	7046300		1152	Auger	70	B	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546158	RD03	8/20/2017 0:00	08N	429264	7046276		1155	Auger	60	B	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Rocky Sample	Rocky Terrain
1546159	RD03	8/20/2017 0:00	08N	429274	7046256		1156	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Coarse	Rocky Terrain
1546160	RD03	8/20/2017 0:00	08N	429285	7046233		1159	Auger	90	B	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546161	RD03	8/20/2017 0:00	08N	429295	7046209		1161	Auger											

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1546178	RD03	8/20/2017 0:00	08N	429083	7046190		1164	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Rocky Terrain
1546179	RD03	8/20/2017 0:00	08N	429072	7046213		1160	Auger	70	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Excellent	Sand	Rocky Sample	Quartz Chips
1546180	RD03	8/20/2017 0:00	08N	429062	7046235		1159	Auger	70	C	Subtle Slope	Dark Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546181	RD03	8/20/2017 0:00	08N	429050	7046258		1158	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Rocky Terrain
1546182	RD03	8/20/2017 0:00	08N	429005	7046347		1151	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Fine	Rocky Terrain
1546183	RD03	8/20/2017 0:00	08N	429016	7046324		1154	Auger	60	C	Subtle Slope	Light Bluish Grey	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Fine	Rocky Sample
1546184	RD03	8/20/2017 0:00	08N	429027	7046302		1154	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	Rocky Sample
1546185	RD03	8/20/2017 0:00	08N	429038	7046279		1156	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Sand	Coarse	Rocky Sample
1547751	VV01	8/16/2017 0:00	08N	433554	7047284		1183	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1547752	VV01	8/16/2017 0:00	08N	433542	7047304		1184	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1547753	VV01	8/16/2017 0:00	08N	433533	7047328		1181	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Sandy	Dull Red Rust
1547754	VV01	8/16/2017 0:00	08N	433522	7047349		1180	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Excellent	Silt	Sandy	Dull Red Rust
1547755	VV01	8/16/2017 0:00	08N	433511	7047372		1177	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1547756	VV01	8/16/2017 0:00	08N	433500	7047395		1175	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1547757	VV01	8/16/2017 0:00	08N	433490	7047416		1171	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Sandy	Dull Red Rust
1547758	VV01	8/16/2017 0:00	08N	433478	7047439		1169	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Sandy	Dull Red Rust
1547759	VV01	8/16/2017 0:00	08N	433467	7047463		1166	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Sandy	Dull Red Rust
1547760	VV01	8/16/2017 0:00	08N	433455	7047485		1163	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Silt	Sandy	Dull Red Rust
1547761	VV01	8/16/2017 0:00	08N	433447	7047506		1159	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Partially Frozen	
1547762	VV01	8/16/2017 0:00	08N	433433	7047530		1157	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Sand	Fine	
1547763	VV01	8/16/2017 0:00	08N	433422	7047553		1153	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Quartz Chips
1547764	VV01	8/16/2017 0:00	08N	433411	7047575		1150	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Excellent	Sand	Fine	Rocky Sample
1547765	VV01	8/16/2017 0:00	08N	433401	7047597		1148	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Dull Red Rust
1547766	VV01	8/16/2017 0:00	08N	433390	7047620		1145	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547767	VV01	8/16/2017 0:00	08N	433379	7047642		1142	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547768	VV01	8/16/2017 0:00	08N	433367	7047666		1140	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547769	VV01	8/16/2017 0:00	08N	433357	7047687		1138	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547770	VV01	8/16/2017 0:00	08N	433345	7047711		1135	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1547771	VV01	8/16/2017 0:00	08N	433335	7047732		1134	Auger	80	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1547772	VV01	8/16/2017 0:00	08N	433324	7047755		1133	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	Dull Red Rust
1547773	VV01	8/16/2017 0:00	08N	433312	7047777		1132	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Sandy	Fine
1547774	VV01	8/16/2017 0:00	08N	433301	7047802		1131	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Sandy	Dull Red Rust
1547775	VV01	8/16/2017 0:00	08N	433301	7047802	1547774	1131	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Sandy	Dull Red Rust
1547776	VV01	8/16/2017 0:00	08N	433291	7047823		1128	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547777	VV01	8/16/2017 0:00	08N	433279	7047844		1118	Auger	50	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	
1547778	VV01	8/16/2017 0:00	08N	433269	7047867		1109	Auger	60	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Sandy	
1547779	VV01	8/16/2017 0:00	08N	433258	7047890		1105	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547780	VV01	8/16/2017 0:00	08N	433247	7047912		1101	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547781	VV01	8/16/2017 0:00	08N	433236	7047935		1098	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Quartz Chips	
1547782	VV01	8/16/2017 0:00	08N	433224	7047956		1095	Auger	60	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547783	VV01	8/16/2017 0:00	08N	433214	7047980		1089	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Coarse	Quartz Chips
1547784	VV01	8/16/2017 0:00	08N	433203	7048002		1086	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Coarse	Quartz Chips
1547785	VV01	8/20/2017 0:00	08N	428094	7044785		1206	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1547826	VV01	8/18/2017 0:00	08N	433203	7048223		1100	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Fine
1547827	VV01	8/18/2017 0:00	08N	433193	7048246		1075	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	Dull Red Rust
1547828	VV01	8/18/2017 0:00	08N	433182	7048267		1065	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	
1547829	VV01	8/18/2017 0:00	08N	433170	7048292		1055	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Sandy	
1547830	VV01	8/18/2017 0:00	08N	433160	7048312		1048	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	Dull Red Rust
1547831	VV01	8/18/2017 0:00	08N	433149	7048335		1041	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Silt	Sandy	Dull Red Rust
1547832	VV01	8/18/2017 0:00	08N	433137	7048358		1035	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	
1547833	VV01	8/18/2017 0:00	08N	433128	7048382		1029	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547834	VV01	8/18/2017 0:00	08N	433116	7048402		1022	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547835	VV01	8/18/2017 0:00	08N	433105	7048426		1015	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	Bright Orange Rust
1547836	VV01	8/18/2017 0:00	08N	433094	7048448		1007	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	Quartz Chips
1547837	VV01	8/18/2017 0:00	08N	433083	7048472		999	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Wet	Good	Sand	Fine	Quartz Chips
1547838	VV01	8/18/2017 0:00	08N	433072	7048493		991	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547839	VV01	8/18/2017 0:00	08N	433060	7048516		986	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547840	VV01	8/18/2017 0:00	08N	433049	7048537		979	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547841	VV01	8/18/2017 0:00	08N	433039	7048561		972	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547842	VV01	8/18/2017 0:00	08N	433027	7048584		967	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1547843	VV01	8/18/2017 0:00	08N	433018	7048605		963	Auger	60	C	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1547844	VV01	8/18/2017 0:00	08N	433007	7048628		957	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547845	VV01	8/18/2017 0:00	08N	432996	7048649		953	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547846	VV01	8/18/2017 0:00	08N	432985	7048673		945	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547847	VV01	8/18/2017 0:00	08N	432974	7048696		939	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Quartz Chips
1547848	VV01	8/18/2017 0:00	08N	432962	7048718		934	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1547849	VV01	8/18/2017 0:00	08N	432951	7048743		929	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1547850	VV01	8/18/2017 0:00	08N	432951	7048743	1547849	929	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1547851	VV01	8/18/2017 0:00	08N	432940	7048763		924	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Bright Orange Rust
1547852	VV01	8/18/2017 0:00	08N	432929	7048784		920	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Rusty Rock Chip
1547853	VV01	8/18/2017 0:00	08N	432918	7048808		913	Auger	80	C	Subtle Slope	Red							

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1547870	VV01	8/19/2017 0:00	08N	430929	7046504		1163	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547871	VV01	8/19/2017 0:00	08N	430918	7046527		1156	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547872	VV01	8/19/2017 0:00	08N	430908	7046548		1151	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547873	VV01	8/19/2017 0:00	08N	430895	7046572		1144	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547874	VV01	8/19/2017 0:00	08N	430886	7046593		1137	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1547875	VV01	8/19/2017 0:00	08N	430886	7046593	1547874	1137	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1547876	VV01	8/19/2017 0:00	08N	430875	7046616		1128	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547877	VV01	8/19/2017 0:00	08N	430863	7046636		1121	Auger	70	C	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547878	VV01	8/19/2017 0:00	08N	430853	7046661		1115	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547879	VV01	8/19/2017 0:00	08N	430763	7046616		1109	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547880	VV01	8/19/2017 0:00	08N	430774	7046596		1117	Auger	60	B	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547881	VV01	8/19/2017 0:00	08N	430783	7046573		1125	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547882	VV01	8/19/2017 0:00	08N	430795	7046550		1134	Auger	80	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547883	VV01	8/19/2017 0:00	08N	430806	7046528		1140	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547884	VV01	8/19/2017 0:00	08N	430818	7046505		1144	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1547885	VV01	8/19/2017 0:00	08N	430829	7046484		1149	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547886	VV01	8/19/2017 0:00	08N	430839	7046460		1153	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1547887	VV01	8/19/2017 0:00	08N	430849	7046438		1159	Auger	90	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Reindeer Moss	Damp	Good	Sand	Fine	
1547888	VV01	8/19/2017 0:00	08N	430861	7046415		1164	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547889	VV01	8/19/2017 0:00	08N	430872	7046389		1170	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Dull Red Rust
1547890	VV01	8/19/2017 0:00	08N	430882	7046371		1175	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547891	VV01	8/19/2017 0:00	08N	430893	7046348		1182	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Dull Red Rust
1547892	VV01	8/19/2017 0:00	08N	430904	7046325		1186	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547893	VV01	8/19/2017 0:00	08N	430915	7046303		1191	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547894	VV01	8/19/2017 0:00	08N	430925	7046279		1195	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547895	VV01	8/19/2017 0:00	08N	430938	7046257		1199	Auger	80	B	Subtle Slope	Chocolate Brown	Dwarf Birch	Thin Moss Cover	Damp	Good	Sand	Fine	Dull Red Rust
1547897	VV01	8/20/2017 0:00	08N	428382	7044649		1148	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Rusty Rock Chip
1547898	VV01	8/20/2017 0:00	08N	428370	7044672		1177	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1547899	VV01	8/20/2017 0:00	08N	428361	7044695		1182	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1547900	VV01	8/20/2017 0:00	08N	428361	7044695	1547899	1182	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1547901	VV01	8/20/2017 0:00	08N	428350	7044717		1182	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Dull Red Rust
1547902	VV01	8/20/2017 0:00	08N	428339	7044740		1184	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547903	VV01	8/20/2017 0:00	08N	428328	7044764		1187	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Sandy	Dull Red Rust
1547904	VV01	8/20/2017 0:00	08N	428317	7044786		1190	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547905	VV01	8/20/2017 0:00	08N	428305	7044807		1192	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1547906	VV01	8/20/2017 0:00	08N	428294	7044830		1197	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Coarse
1547907	VV01	8/20/2017 0:00	08N	428284	7044853		1202	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Rusty Rock Chip
1547908	VV01	8/20/2017 0:00	08N	428273	7044875		1206	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1547909	VV01	8/20/2017 0:00	08N	428293	7044606		1157	Auger	50	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547910	VV01	8/20/2017 0:00	08N	428282	7044628		1160	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	
1547911	VV01	8/20/2017 0:00	08N	428270	7044651		1167	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Quartz Chips
1547912	VV01	8/20/2017 0:00	08N	428260	7044671		1170	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1547913	VV01	8/20/2017 0:00	08N	428249	7044695		1177	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip
1547914	VV01	8/20/2017 0:00	08N	428238	7044717		1180	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Quartz Chips	
1547915	VV01	8/20/2017 0:00	08N	428227	7044741		1186	Auger	90	C	Subtle Slope	Reddish Yellow	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Quartz Chips	
1547916	VV01	8/20/2017 0:00	08N	428216	7044763		1192	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Quartz Chips	Dull Red Rust
1547917	VV01	8/20/2017 0:00	08N	428205	7044785		1198	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Dull Red Rust
1547918	VV01	8/20/2017 0:00	08N	428193	7044809		1202	Auger	90	C	Subtle Slope	Reddish Yellow	Subalpine Fir	Reindeer Moss	Damp	Excellent	Silt	Quartz Chips	
1547919	VV01	8/20/2017 0:00	08N	428183	7044829		1206	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Quartz Chips
1547920	VV01	8/20/2017 0:00	08N	428201	7044562		1156	Auger	100	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Clay	
1547921	VV01	8/20/2017 0:00	08N	428191	7044585		1161	Auger	110	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Sandy	
1547922	VV01	8/20/2017 0:00	08N	428180	7044607		1168	Auger	80	B	Pronounced Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	
1547923	VV01	8/20/2017 0:00	08N	428170	7044630		1174	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Quartz Chips
1547924	VV01	8/20/2017 0:00	08N	428159	7044651		1178	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1547925	VV01	8/20/2017 0:00	08N	428159	7044651	1547924	1178	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Sandy	Quartz Chips
1548001	NK01	8/16/2017 0:00	08N	434003	7047502		1117	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548002	NK01	8/16/2017 0:00	08N	433992	7047522		1114	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss > 30cm	Wet	Excellent	Clay		
1548003	NK01	8/16/2017 0:00	08N	433982	7047546		1110	Auger	80	B	Subtle Slope	Grey	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548004	NK01	8/16/2017 0:00	08N	433971	7047569		1106	Auger	90	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548005	NK01	8/16/2017 0:00	08N	433960	7047590		1101	Auger	90	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548006	NK01	8/16/2017 0:00	08N	433949	7047613		1095	Auger	110	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay	Rocky Sample	
1548007	NK01	8/16/2017 0:00	08N	433937	7047636		1090	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548008	NK01	8/16/2017 0:00	08N	433927	7047658		1084	Auger	110	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548009	NK01	8/16/2017 0:00	08N	433916	7047681		1079	Auger	100	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548010	NK01	8/16/2017 0:00	08N	433904	7047702		1072	Auger	90	B	Subtle Slope	Grey	Black Spruce	Reindeer Moss	Damp	Excellent	Silt	Rocky Sample	
1548011	NK01	8/16/2017 0:00	08N	433894	7047726		1064	Auger	90	B	Subtle Slope	Grey	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548012	NK01	8/16/2017 0:00	08N	433884	7047747		1055	Auger	90	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548013	NK01	8/16/2017 0:00	08N	433871	7047771		1044	Auger	90	B	Subtle Slope	Grey	Black Spruce	Reindeer Moss	Wet	Good	Silt		
1548014	NK01	8/16/2017 0:00	08N	433859	7047793		1033	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548015	NK01	8/16/2017 0:00	08N	433849	7047816		1023	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Silt		
1548016	NK01	8/16/2017 0:00	08N	433838	7047839		1015	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Sphagnum Moss > 30cm	Damp	Excellent	Clay		
1548017	NK01	8/16/2017 0:00	08N	433828	7047862		1006	Auger	70	B	Subtle Slope	Chocolate Brown							

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground_cover	moisture	quality	texture	sample_not	sample_n_1
1548032	NK01	8/16/2017 0:00	08N	433674	7048177		1002	Auger	90	B	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548033	NK01	8/16/2017 0:00	08N	433663	7048199		997	Auger	80	B	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548034	NK01	8/16/2017 0:00	08N	433653	7048220		995	Auger	90	B	Subtle Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548051	NK01	8/18/2017 0:00	08N	432842	7050107		774	Auger	60	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548052	NK01	8/18/2017 0:00	08N	432854	7050083		766	Auger	60	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548053	NK01	8/18/2017 0:00	08N	432865	7050060		767	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548054	NK01	8/18/2017 0:00	08N	432875	7050040		768	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548055	NK01	8/18/2017 0:00	08N	432886	7050017		769	Auger	90	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548056	NK01	8/18/2017 0:00	08N	432898	7049995		771	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548057	NK01	8/18/2017 0:00	08N	432909	7049970		775	Auger	90	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548058	NK01	8/18/2017 0:00	08N	432919	7049951		776	Auger	90	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548059	NK01	8/18/2017 0:00	08N	432931	7049927		778	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548060	NK01	8/18/2017 0:00	08N	432942	7049903		780	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548061	NK01	8/18/2017 0:00	08N	432953	7049882		782	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548062	NK01	8/18/2017 0:00	08N	432964	7049860		783	Auger	60	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548063	NK01	8/18/2017 0:00	08N	432974	7049838		783	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548064	NK01	8/18/2017 0:00	08N	432985	7049813		784	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548065	NK01	8/18/2017 0:00	08N	432995	7049793		787	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548066	NK01	8/18/2017 0:00	08N	433005	7049769		789	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548067	NK01	8/18/2017 0:00	08N	433017	7049749		791	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548068	NK01	8/18/2017 0:00	08N	433029	7049725		795	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Clay		
1548069	NK01	8/18/2017 0:00	08N	433039	7049703		796	Auger	100	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548070	NK01	8/18/2017 0:00	08N	433050	7049679		797	Auger	110	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548071	NK01	8/18/2017 0:00	08N	433063	7049655		799	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548072	NK01	8/18/2017 0:00	08N	433072	7049633		800	Auger	60	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548073	NK01	8/18/2017 0:00	08N	433084	7049612		803	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Clay		
1548074	NK01	8/18/2017 0:00	08N	433095	7049591		808	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548075	NK01	8/18/2017 0:00	08N	433095	7049591		808	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548076	NK01	8/18/2017 0:00	08N	433105	7049569		810	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548077	NK01	8/18/2017 0:00	08N	433117	7049545		814	Auger	110	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Excellent	Clay		
1548078	NK01	8/18/2017 0:00	08N	433128	7049523		818	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Clay		
1548079	NK01	8/18/2017 0:00	08N	433139	7049498		821	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548080	NK01	8/18/2017 0:00	08N	433150	7049477		824	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Wet	Good	Clay		
1548081	NK01	8/18/2017 0:00	08N	433160	7049455		830	Auger	70	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Clay		
1548082	NK01	8/18/2017 0:00	08N	433172	7049433		835	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Clay		
1548083	NK01	8/18/2017 0:00	08N	433182	7049410		840	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548084	NK01	8/18/2017 0:00	08N	433193	7049387		843	Auger	80	B	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Excellent	Silt		
1548085	NK01	8/19/2017 0:00	08N	431441	7046365		1233	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Clay		
1548086	NK01	8/19/2017 0:00	08N	431431	7046386		1231	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548087	NK01	8/19/2017 0:00	08N	431420	7046410		1227	Auger	70	B	Subtle Slope	Chocolate Brown	Alders	Reindeer Moss	Damp	Good	Clay		
1548088	NK01	8/19/2017 0:00	08N	431408	7046431		1223	Auger	110	C	Subtle Slope	Chocolate Brown	Alders	Reindeer Moss	Damp	Excellent	Clay		
1548089	NK01	8/19/2017 0:00	08N	431398	7046455		1221	Auger	110	B	Subtle Slope	Chocolate Brown	Alders	Thin Moss Cover	Damp	Excellent	Clay		
1548090	NK01	8/19/2017 0:00	08N	431387	7046476		1216	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Excellent	Clay		
1548091	NK01	8/19/2017 0:00	08N	431375	7046498		1213	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548092	NK01	8/19/2017 0:00	08N	431364	7046522		1210	Auger	90	C	Pronounced Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548093	NK01	8/19/2017 0:00	08N	431353	7046544		1205	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548094	NK01	8/19/2017 0:00	08N	431342	7046567		1201	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548095	NK01	8/19/2017 0:00	08N	431332	7046587		1195	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548096	NK01	8/19/2017 0:00	08N	431319	7046613		1190	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548097	NK01	8/19/2017 0:00	08N	431310	7046633		1182	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548098	NK01	8/19/2017 0:00	08N	431297	7046656		1177	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Excellent	Silt		
1548099	NK01	8/19/2017 0:00	08N	431288	7046678		1172	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548100	NK01	8/19/2017 0:00	08N	431288	7046678		1172	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548101	NK01	8/19/2017 0:00	08N	431277	7046702		1166	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548102	NK01	8/19/2017 0:00	08N	431266	7046722		1163	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548103	NK01	8/19/2017 0:00	08N	431355	7046769		1163	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548104	NK01	8/19/2017 0:00	08N	431366	7046744		1166	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548105	NK01	8/19/2017 0:00	08N	431376	7046724		1169	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548106	NK01	8/19/2017 0:00	08N	431387	7046701		1173	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548107	NK01	8/19/2017 0:00	08N	431398	7046680		1176	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548108	NK01	8/19/2017 0:00	08N	431410	7046655		1180	Auger	90	B	Flat	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548109	NK01	8/19/2017 0:00	08N	431419	7046634		1183	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548110	NK01	8/19/2017 0:00	08N	431432	7046612		1187	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548111	NK01	8/19/2017 0:00	08N	431441	7046589		1192	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548112	NK01	8/19/2017 0:00	08N	431454	7046565		1198	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548113	NK01	8/19/2017 0:00	08N	431464	7046544		1201	Auger	90	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548114	NK01	8/19/2017 0:00	08N	431475	7046521		1207	Auger	100	B	Subtle Slope	Chocolate Brown	Alders	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548115	NK01	8/19/2017 0:00	08N	431487	7046499		1212	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Excellent	Clay		
1548116	NK01	8/19/2017 0:00	08N	431498	7046476		1215	Auger	80	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Clay		
1548117	NK01	8/19/2017 0:00	08N	431509	7046454		1219	Auger	100	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss > 30cm	Damp	Excellent	Clay		
1548118	NK01	8/19/2017 0:00	08N	431520	7046431		1223	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548119	NK01	8/19/2017 0:00	08N	431530	7046409		1226	Auger	110	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Excellent	Clay		
1548120	NK01	8/20/2017 0:00	08N	427540	7045015														

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1548134	NK01	8/20/2017 0:00	08N	427682	7044723		1219	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay		
1548135	NK01	8/20/2017 0:00	08N	427693	7044702		1213	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay		
1548136	NK01	8/20/2017 0:00	08N	427705	7044678		1206	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Bare Soil	Damp	Good	Clay		
1548137	NK01	8/20/2017 0:00	08N	427714	7044657		1201	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548138	NK01	8/20/2017 0:00	08N	427804	7044700		1204	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548139	NK01	8/20/2017 0:00	08N	427794	7044723		1209	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548140	NK01	8/20/2017 0:00	08N	427783	7044744		1214	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548142	NK01	8/20/2017 0:00	08N	427772	7044769		1221	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548143	NK01	8/20/2017 0:00	08N	427761	7044791		1226	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548144	NK01	8/20/2017 0:00	08N	427750	7044813		1231	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548145	NK01	8/20/2017 0:00	08N	427740	7044835		1233	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548146	NK01	8/20/2017 0:00	08N	427728	7044857		1236	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548147	NK01	8/20/2017 0:00	08N	427716	7044879		1237	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548148	NK01	8/20/2017 0:00	08N	427705	7044902		1239	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548149	NK01	8/20/2017 0:00	08N	427694	7044926		1241	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay		
1548150	NK01	8/20/2017 0:00	08N	427694	7044926		1241	Mattock	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548151	NK01	8/20/2017 0:00	08N	427680	7044951		1241	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548152	NK01	8/20/2017 0:00	08N	427674	7044968		1243	Mattock	60	B	Subtle Slope	Reddish Yellow	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548153	NK01	8/20/2017 0:00	08N	427661	7044996		1242	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548154	NK01	8/20/2017 0:00	08N	427652	7045014		1243	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Clay		
1548155	NK01	8/20/2017 0:00	08N	427641	7045038		1242	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548156	NK01	8/20/2017 0:00	08N	427629	7045061		1242	Mattock	60	B	Flat	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Clay		
1548251	CG01	8/16/2017 0:00	08N	433734	7047373		1157	Auger	60	C	Subtle Slope	Chocolate Brown	Balsam Fir	Thin Moss Cover	Damp	Good	Sand		
1548252	CG01	8/16/2017 0:00	08N	433724	7047394		1158	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548253	CG01	8/16/2017 0:00	08N	433714	7047415		1155	Auger	60	C	Subtle Slope	Chocolate Brown	Black Spruce	Reindeer Moss	Damp	Good	Sand		
1548254	CG01	8/16/2017 0:00	08N	433699	7047439		1155	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Partially Frozen	
1548255	CG01	8/16/2017 0:00	08N	433689	7047458		1153	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548256	CG01	8/16/2017 0:00	08N	433683	7047484		1150	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548257	CG01	8/16/2017 0:00	08N	433670	7047506		1148	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548258	CG01	8/16/2017 0:00	08N	433660	7047528		1145	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Sand		
1548259	CG01	8/16/2017 0:00	08N	433647	7047550		1142	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand		
1548260	CG01	8/16/2017 0:00	08N	433633	7047571		1140	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548261	CG01	8/16/2017 0:00	08N	433626	7047593		1136	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	
1548262	CG01	8/16/2017 0:00	08N	433613	7047617		1132	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548263	CG01	8/16/2017 0:00	08N	433604	7047640		1126	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548264	CG01	8/16/2017 0:00	08N	433590	7047662		1123	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548265	CG01	8/16/2017 0:00	08N	433581	7047685		1120	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548266	CG01	8/16/2017 0:00	08N	433566	7047707		1115	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548267	CG01	8/16/2017 0:00	08N	433559	7047728		1109	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548268	CG01	8/16/2017 0:00	08N	433547	7047753		1106	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548269	CG01	8/16/2017 0:00	08N	433534	7047774		1103	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Wet	Good	Sand		
1548270	CG01	8/16/2017 0:00	08N	433525	7047798		1099	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548271	CG01	8/16/2017 0:00	08N	433516	7047818		1105	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548272	CG01	8/16/2017 0:00	08N	433501	7047841		1094	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548273	CG01	8/16/2017 0:00	08N	433491	7047864		1091	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548274	CG01	8/16/2017 0:00	08N	433480	7047887		1089	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Partially Frozen	
1548275	CG01	8/16/2017 0:00	08N	433480	7047887	1548274	1089	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Partially Frozen	
1548276	CG01	8/16/2017 0:00	08N	433467	7047909		1090	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548277	CG01	8/16/2017 0:00	08N	433456	7047931		1086	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	
1548278	CG01	8/16/2017 0:00	08N	433446	7047957		1084	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548279	CG01	8/16/2017 0:00	08N	433437	7047976		1081	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Bright Orange Rust	
1548280	CG01	8/16/2017 0:00	08N	433428	7047998		1079	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548281	CG01	8/16/2017 0:00	08N	433411	7048021		1076	Auger	50	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548282	CG01	8/16/2017 0:00	08N	433398	7048044		1074	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548283	CG01	8/16/2017 0:00	08N	433387	7048067		1069	Auger	60	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548284	CG01	8/16/2017 0:00	08N	433382	7048089		1064	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand		
1548301	SB02	8/16/2017 0:00	08N	433193	7047107		1199	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1548302	SB02	8/16/2017 0:00	08N	433185	7047130		1203	Auger	80	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548303	SB02	8/16/2017 0:00	08N	433175	7047153		1203	Auger	100	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Quartz Chips
1548304	SB02	8/16/2017 0:00	08N	433160	7047176		1204	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Dull Red Rust	Fine
1548305	SB02	8/16/2017 0:00	08N	433152	7047197		1203	Auger	70	C	Subtle Slope	Reddish Yellow	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Quartz Chips	Rocky Sample
1548306	SB02	8/16/2017 0:00	08N	433141	7047221		1202	Auger	50	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	Rocky Terrain
1548307	SB02	8/16/2017 0:00	08N	433130	7047243		1199	Auger	60	C	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Quartz Chips
1548308	SB02	8/16/2017 0:00	08N	433119	7047265		1197	Auger	40	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rocky Terrain	Fine
1548309	SB02	8/16/2017 0:00	08N	433107	7047288		1195	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1548310	SB02	8/16/2017 0:00	08N	433095	7047309		1192	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Dull Red Rust	Fine
1548311	SB02	8/16/2017 0:00	08N	433085	7047333		1187	Auger	50	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Rocky Terrain
1548312	SB02	8/16/2017 0:00	08N	433073	7047355		1181	Auger	60	C	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Fine
1548313	SB02	8/16/2017 0:00	08N	433064	7047381		1177	Auger	80	C	Pronounced Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Dull Red Rust	Rocky Sample
1548314	SB02	8/16/2017 0:00	08N	433053	7047399		1175	Auger	70	B	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1548315	SB02	8/16/2017 0:00	08N	433042	7047423		1172	Auger	70	C	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Quartz Chips
1548316	SB02	8/16/2017 0:00	08N	433032	7047445		1169	Auger	90	C	Pronounced Slope	Pale Greenish	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Dull Red Rust	Fine
1548317	SB02	8/16/2017 0:00																	

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground_cover	moisture	quality	texture	sample_not	sample_n_1
1548331	SB02	8/16/2017 0:00	08N	432878	7047760		1091	Auger	70	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Silt	Partially Frozen	Rocky Terrain
1548332	SB02	8/16/2017 0:00	08N	432864	7047781		1086	Auger	70	C	Pronounced Slope	Reddish Brown	Mixed Coniferous	Thin Moss Cover	Damp	Excellent	Sand	Rusty Rock Chip	Quartz Chips
1548333	SB02	8/16/2017 0:00	08N	432852	7047803		1080	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Rocky Sample
1548334	SB02	8/16/2017 0:00	08N	432844	7047827		1076	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Rusty Rock Chip
1548367	SB02	8/18/2017 0:00	08N	433381	7048312		988	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Fine	
1548368	SB02	8/18/2017 0:00	08N	433374	7048332		993	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Rocky Sample
1548369	SB02	8/18/2017 0:00	08N	433362	7048355		992	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Sample	Rocky Terrain
1548370	SB02	8/18/2017 0:00	08N	433351	7048378		992	Auger	70	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Rocky Terrain
1548371	SB02	8/18/2017 0:00	08N	433341	7048400		989	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Quartz Chips
1548372	SB02	8/18/2017 0:00	08N	433329	7048424		988	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Rocky Terrain
1548373	SB02	8/18/2017 0:00	08N	433318	7048445		986	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1548374	SB02	8/18/2017 0:00	08N	433307	7048469		981	Auger	90	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Dull Red Rust
1548375	SB02	8/18/2017 0:00	08N	433307	7048469	1548374	981	Auger	90	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Dull Red Rust
1548376	SB02	8/18/2017 0:00	08N	433296	7048490		980	Auger	80	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Partially Frozen
1548377	SB02	8/18/2017 0:00	08N	433285	7048512		976	Auger	100	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Wet	Good	Silt	Dull Red Rust	Partially Frozen
1548378	SB02	8/18/2017 0:00	08N	433275	7048534		973	Auger	90	C	Subtle Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1548379	SB02	8/18/2017 0:00	08N	433264	7048557		968	Auger	100	C	Subtle Slope	Light Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1548380	SB02	8/18/2017 0:00	08N	433252	7048580		965	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Sample
1548381	SB02	8/18/2017 0:00	08N	433241	7048602		961	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	
1548382	SB02	8/18/2017 0:00	08N	433230	7048624		956	Auger	60	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Sand	Rusty Rock Chip	Frozen
1548383	SB02	8/18/2017 0:00	08N	433219	7048648		952	Auger	70	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Quartz Chips	Rusty Rock Chip
1548384	SB02	8/18/2017 0:00	08N	433207	7048669		948	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Frozen	Rocky Sample
1548385	SB02	8/18/2017 0:00	08N	433197	7048693		940	Auger	60	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rocky Terrain	Partially Frozen
1548386	SB02	8/18/2017 0:00	08N	433187	7048716		933	Auger	60	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	Rocky Terrain
1548387	SB02	8/18/2017 0:00	08N	433174	7048737		930	Auger	60	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Frozen
1548388	SB02	8/18/2017 0:00	08N	433165	7048760		926	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Rusty Rock Chip
1548389	SB02	8/18/2017 0:00	08N	433154	7048783		922	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Partially Frozen
1548390	SB02	8/18/2017 0:00	08N	433145	7048806		919	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Partially Frozen
1548391	SB02	8/18/2017 0:00	08N	433132	7048827		916	Auger	70	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Quartz Chips
1548392	SB02	8/18/2017 0:00	08N	433119	7048849		914	Auger	100	C	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1548393	SB02	8/18/2017 0:00	08N	433108	7048871		910	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1548394	SB02	8/18/2017 0:00	08N	433098	7048895		908	Auger	80	C	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1548395	SB02	8/18/2017 0:00	08N	433086	7048917		904	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1548396	SB02	8/18/2017 0:00	08N	433077	7048939		903	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1548397	SB02	8/18/2017 0:00	08N	433067	7048964		898	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Sandy
1548398	SB02	8/18/2017 0:00	08N	433055	7048984		895	Auger	70	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	
1548399	SB02	8/18/2017 0:00	08N	433044	7049008		891	Auger	60	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Fine	
1548400	SB02	8/18/2017 0:00	08N	433044	7049008	1548399	891	Auger	60	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Fine	
1548401	SB02	8/19/2017 0:00	08N	432385	7046936		1134	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1548402	SB02	8/18/2017 0:00	08N	433033	7049030		886	Auger	70	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1548403	SB02	8/19/2017 0:00	08N	432374	7046959		1162	Auger	80	B	Subtle Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Fine
1548404	SB02	8/19/2017 0:00	08N	432363	7046982		1167	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Rocky Sample
1548405	SB02	8/19/2017 0:00	08N	432353	7047003		1171	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1548406	SB02	8/19/2017 0:00	08N	432341	7047027		1172	Auger	80	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Fine	Wet Soil
1548407	SB02	8/19/2017 0:00	08N	432330	7047049		1172	Auger	60	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Frozen	Rocky Sample
1548408	SB02	8/19/2017 0:00	08N	432318	7047071		1171	Auger	70	B	Subtle Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1548409	SB02	8/19/2017 0:00	08N	432308	7047094		1167	Auger	70	B	Subtle Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Partially Frozen	Rocky Terrain
1548410	SB02	8/19/2017 0:00	08N	432297	7047116		1164	Auger	60	C	Pronounced Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Partially Frozen
1548411	SB02	8/19/2017 0:00	08N	432286	7047139		1160	Auger	60	C	Subtle Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Partially Frozen
1548412	SB02	8/19/2017 0:00	08N	432275	7047164		1170	Auger	70	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Wet	Poor	Silt	Wet Soil	Rocky Terrain
1548413	SB02	8/19/2017 0:00	08N	432264	7047185		1153	Auger	50	B	Pronounced Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Poor	Sand	Rocky Sample	Rocky Terrain
1548414	SB02	8/19/2017 0:00	08N	432254	7047206		1147	Auger	70	B	Pronounced Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548415	SB02	8/19/2017 0:00	08N	432244	7047231		1142	Auger	60	B	Pronounced Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Partially Frozen
1548416	SB02	8/19/2017 0:00	08N	432232	7047253		1139	Auger	40	B	Pronounced Slope	Reddish Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Rocky Sample
1548417	SB02	8/19/2017 0:00	08N	432221	7047276		1132	Auger	60	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Rocky Terrain
1548418	SB02	8/19/2017 0:00	08N	432210	7047296		1132	Auger	60	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rusty Rock Chip	Frozen
1548419	SB02	8/19/2017 0:00	08N	432118	7047251		1145	Auger	30	B	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rocky Terrain
1548420	SB02	8/19/2017 0:00	08N	432131	7047231		1153	Auger	60	B	Pronounced Slope	Reddish Brown	Subalpine Fir	Sphagnum Moss < 30cm	Damp	Good	Sand	Dull Red Rust	Fine
1548421	SB02	8/19/2017 0:00	08N	432142	7047207		1155	Auger	80	C	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Dull Red Rust	Quartz Chips
1548422	SB02	8/19/2017 0:00	08N	432152	7047185		1161	Auger	90	C	Subtle Slope	Reddish Orange	Mixed Coniferous	Frost Boil	Damp	Good	Silt	Rusty Rock Chip	Quartz Chips
1548423	SB02	8/19/2017 0:00	08N	432163	7047160		1188	Auger	60	B	Pronounced Slope	Reddish Orange	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Quartz Chips	Rocky Sample
1548424	SB02	8/19/2017 0:00	08N	432173	7047139		1166	Auger	60	C	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1548425	SB02	8/19/2017 0:00	08N	432173	7047139	1548424	1166	Auger	60	C	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1548426	SB02	8/20/2017 0:00	08N	428466	7046084		1195	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Rusty Rock Chip	Sandy
1548427	SB02	8/20/2017 0:00	08N	428476	7046062		1175	Auger	50	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548428	SB02	8/20/2017 0:00	08N	428487	7046039		1180	Auger	80	B	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Rusty Rock Chip	Quartz Chips
1548429	SB02	8/20/2017 0:00	08N	428498	7046016		1184	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548430	SB02	8/20/2017 0:00	08N	428511	7045994		1188	Auger	70	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548431	SB02	8/20/2017 0:00	08N	428520	7045972		1189	Auger	60	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548432	SB02	8/20/2017 0:00	08N	428531	7045950		1192	Auger	60	B	Subtle Slope	Chocolate Brown	Sub						

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1548449	SB02	8/20/2017 0:00	08N	428397	7045772		1206	Auger	110	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548450	SB02	8/20/2017 0:00	08N	428397	7045772	1548449	1206	Auger	110	B	Subtle Slope	Reddish Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Dull Red Rust	Sandy
1548451	SB02	8/19/2017 0:00	08N	432187	7047119		1170	Auger	70	B	Pronounced Slope	Reddish Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Rusty Rock Chip	Fine
1548452	SB02	8/19/2017 0:00	08N	432195	7047094		1174	Auger	70	C	Subtle Slope	Light Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Rusty Rock Chip	Rocky Terrain
1548453	SB02	8/19/2017 0:00	08N	432207	7047073		1176	Auger	50	B	Subtle Slope	Reddish Brown	Mixed Coniferous	Sphagnum Moss < 30cm	Damp	Good	Silt	Rocky Terrain	Wet Soil
1548454	SB02	8/19/2017 0:00	08N	432216	7047050		1179	Auger	40	B	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1548455	SB02	8/19/2017 0:00	08N	432230	7047029		1183	Auger	60	B	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Dull Red Rust	Rocky Terrain
1548456	SB02	8/19/2017 0:00	08N	432241	7047002		1186	Auger	70	B	Subtle Slope	Light Brown	Mixed Coniferous	Frost Boil	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548457	SB02	8/19/2017 0:00	08N	432251	7046983		1189	Auger	70	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Rusty Rock Chip
1548458	SB02	8/19/2017 0:00	08N	432262	7046961		1191	Auger	70	B	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Dull Red Rust	Rusty Rock Chip
1548459	SB02	8/19/2017 0:00	08N	432271	7046938		1196	Auger	70	B	Pronounced Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1548460	SB02	8/19/2017 0:00	08N	432284	7046915		1199	Auger	80	C	Pronounced Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548461	SB02	8/19/2017 0:00	08N	432295	7046893		1205	Auger	80	B	Subtle Slope	Reddish Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Fine	Dull Red Rust
1548462	SB02	8/20/2017 0:00	08N	428386	7045795		1205	Auger	80	C	Subtle Slope	Reddish Yellow	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1548463	SB02	8/20/2017 0:00	08N	428373	7045817		1201	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1548464	SB02	8/20/2017 0:00	08N	428363	7045840		1199	Auger	80	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Bright Orange Rust	Quartz Chips
1548465	SB02	8/20/2017 0:00	08N	428353	7045863		1197	Auger	90	C	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Bright Orange Rust	Quartz Chips
1548466	SB02	8/20/2017 0:00	08N	428343	7045885		1192	Auger	60	B	Subtle Slope	Chocolate Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt	Bright Orange Rust	Dull Red Rust
1548467	SB02	8/20/2017 0:00	08N	428330	7045908		1189	Auger	80	C	Subtle Slope	Reddish Orange	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Quartz Chips	Rusty Rock Chip
1548468	SB02	8/20/2017 0:00	08N	428318	7045929		1185	Auger	80	C	Subtle Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Quartz Chips	Rusty Rock Chip
1548469	SB02	8/20/2017 0:00	08N	428308	7045952		1181	Auger	80	C	Subtle Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Quartz Chips
1548470	SB02	8/20/2017 0:00	08N	428298	7045974		1177	Auger	80	C	Pronounced Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Rocky Sample	Rusty Rock Chip
1548471	SB02	8/20/2017 0:00	08N	428287	7045997		1173	Auger	90	C	Subtle Slope	Light Brown	Mixed Coniferous	Thin Moss Cover	Damp	Good	Sand	Rusty Rock Chip	Rocky Sample
1548501	TL01	8/18/2017 0:00	08N	433308	7049835		775	Auger	50	C	Steep	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Dry	Good	Sand	Fine	Rocky Sample
1548502	TL01	8/18/2017 0:00	08N	433320	7049812		770	Auger	50	C	Steep	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Fine	Rocky Sample
1548503	TL01	8/18/2017 0:00	08N	433330	7049792		764	Auger	60	B	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Organic 10%
1548504	TL01	8/18/2017 0:00	08N	433343	7049769		765	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Rocky Sample
1548505	TL01	8/18/2017 0:00	08N	433353	7049746		773	Auger	110	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548506	TL01	8/18/2017 0:00	08N	433363	7049723		780	Auger	70	C	Pronounced Slope	Bluish Grey	White Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548507	TL01	8/18/2017 0:00	08N	433375	7049700		788	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Fine	Rocky Sample
1548508	TL01	8/18/2017 0:00	08N	433386	7049675		784	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Silt	Partially Frozen	Rocky Sample
1548509	TL01	8/18/2017 0:00	08N	433397	7049656		783	Auger	50	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Rocky Sample	Rocky Terrain
1548510	TL01	8/18/2017 0:00	08N	433408	7049632		783	Auger	60	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548511	TL01	8/18/2017 0:00	08N	433419	7049611		783	Auger	90	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Damp	Good	Sand	Partially Frozen	Rocky Sample
1548512	TL01	8/18/2017 0:00	08N	433429	7049588		783	Auger	50	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548513	TL01	8/18/2017 0:00	08N	433438	7049567		786	Auger	80	C	Pronounced Slope	Chocolate Brown	White Spruce	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548514	TL01	8/18/2017 0:00	08N	433454	7049545		787	Auger	60	C	Pronounced Slope	Chocolate Brown	White Spruce	Thin Moss Cover	Dry	Good	Sand	Fine	Rocky Sample
1548516	TL01	8/19/2017 0:00	08N	430819	7045811		1211	Auger	90	C	Flat	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Dry	Good	Sand	Fine	Sandy
1548517	TL01	8/19/2017 0:00	08N	430810	7045833		1217	Auger	110	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548518	TL01	8/19/2017 0:00	08N	430799	7045854		1220	Auger	100	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548519	TL01	8/19/2017 0:00	08N	430789	7045880		1222	Auger	90	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548520	TL01	8/19/2017 0:00	08N	430777	7045902		1223	Auger	80	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548521	TL01	8/19/2017 0:00	08N	430766	7045923		1226	Auger	80	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548522	TL01	8/19/2017 0:00	08N	430755	7045946		1225	Auger	90	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548523	TL01	8/19/2017 0:00	08N	430744	7045969		1221	Auger	80	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548526	TL01	8/19/2017 0:00	08N	430733	7045992		1218	Auger	90	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548527	TL01	8/19/2017 0:00	08N	430722	7046015		1216	Auger	80	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548528	TL01	8/19/2017 0:00	08N	430712	7046037		1212	Auger	80	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548529	TL01	8/19/2017 0:00	08N	430700	7046059		1209	Auger	100	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548530	TL01	8/19/2017 0:00	08N	430689	7046082		1205	Auger	80	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548531	TL01	8/19/2017 0:00	08N	430679	7046103		1201	Auger	60	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548532	TL01	8/19/2017 0:00	08N	430668	7046126		1195	Auger	110	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548533	TL01	8/19/2017 0:00	08N	430657	7046148		1190	Auger	90	C	Flat	Chocolate Brown	Mixed Coniferous	Leaf Cover	Dry	Good	Sand	Fine	Rocky Sample
1548534	TL01	8/19/2017 0:00	08N	430647	7046173		1185	Auger	80	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548535	TL01	8/19/2017 0:00	08N	430636	7046193		1182	Auger	60	C	Flat	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548536	TL01	8/19/2017 0:00	08N	430625	7046216		1177	Auger	70	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548537	TL01	8/19/2017 0:00	08N	430613	7046238		1173	Auger	60	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548538	TL01	8/19/2017 0:00	08N	430602	7046262		1166	Auger	40	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Thin Moss Cover	Dry	Good	Sand	Rocky Sample	Rocky Terrain
1548539	TL01	8/19/2017 0:00	08N	430591	7046283		1160	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Damp	Good	Sand	Fine	Sandy
1548540	TL01	8/19/2017 0:00	08N	430578	7046306		1153	Auger	60	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Rocky Sample	Rocky Terrain
1548541	TL01	8/19/2017 0:00	08N	430568	7046329		1147	Auger	60	C	Subtle Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Rocky Sample	Rocky Terrain
1548542	TL01	8/19/2017 0:00	08N	430558	7046352		1140	Auger	70	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Rocky Sample	Rocky Terrain
1548543	TL01	8/19/2017 0:00	08N	430546	7046373		1134	Auger	50	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Silt	Rocky Sample	Rocky Terrain
1548544	TL01	8/19/2017 0:00	08N	430637	7046416		1137	Auger	90	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548545	TL01	8/19/2017 0:00	08N	430648	7046395		1142	Auger	50	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Fine	Rocky Sample
1548546	TL01	8/19/2017 0:00	08N	430661	7046374		1147	Auger	60	C	Pronounced Slope	Chocolate Brown	Mixed Coniferous	Reindeer Moss	Dry	Good	Sand	Rocky Sample	Rocky Terrain
1548547	TL01	8/19/2017 0:00	08N	430670	7046349		1152	Auger	80	C	Pronounced Slope	Chocolate Brown	Dwarf Birch	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548548	TL01	8/19/2017 0:00	08N	430682	7046328		1158	Auger	60	C	Pronounced Slope	Chocolate Brown	Dwarf Birch	Reindeer Moss	Dry	Good	Sand	Fine	Sandy
1548549	TL01	8/19/2017 0:00	08N	430693	7046306		1164	Auger	50	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Rusty Rock Chip	Quartz Chips
1548550	TL01	8/19/2017 0:00	08N	430693	7046306	1548549	1164	Auger	50	C	Pronounced Slope	Chocolate Brown	Balsam Fir	Reindeer Moss	Dry	Good	Sand	Rusty Rock Chip	Quartz Chips
1551251	DB02	8/16/2017 0:00	08N	433122	7047712		1147	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Rusty Rock Chip	

Appendix A: Sample Assays

sample_id	sample_tec	Date	utm_zone	Easting	Northing	duplicate	elevation	method	depth	horizon	site_slope	soil_colou	site_veget	ground cover	moisture	quality	texture	sample_not	sample_n_1
1551269	DB02	8/16/2017 0:00	08N	433309	7047329		1226	Auger	70	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1551270	DB02	8/16/2017 0:00	08N	433297	7047352		1202	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1551271	DB02	8/16/2017 0:00	08N	433288	7047375		1182	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1551272	DB02	8/16/2017 0:00	08N	433275	7047397		1199	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	Quartz Chips
1551273	DB02	8/16/2017 0:00	08N	433266	7047418		1190	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1551274	DB02	8/16/2017 0:00	08N	433254	7047442		1186	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1551275	DB02	8/16/2017 0:00	08N	433254	7047442	1551274	1180	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1551276	DB02	8/16/2017 0:00	08N	433243	7047465		1181	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt	Fine	
1551277	DB02	8/16/2017 0:00	08N	433232	7047488		1174	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Excellent	Sand	Fine	
1551278	DB02	8/16/2017 0:00	08N	433221	7047509		1179	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1551279	DB02	8/16/2017 0:00	08N	433210	7047532		1172	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Clay		
1551280	DB02	8/16/2017 0:00	08N	433199	7047554		1150	Auger	50	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Good	Clay		
1551281	DB02	8/16/2017 0:00	08N	433189	7047576		1168	Auger	100	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Wet	Excellent	Silt	Wet Soil	
1551282	DB02	8/16/2017 0:00	08N	433176	7047599		1157	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Sand	Fine	
1551283	DB02	8/16/2017 0:00	08N	433167	7047622		1149	Auger	90	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Sand	Fine	
1551284	DB02	8/16/2017 0:00	08N	433155	7047644		1148	Auger	80	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Good	Silt		
1551285	DB02	8/16/2017 0:00	08N	433144	7047667		1155	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Thin Moss Cover	Damp	Excellent	Silt	Wet Soil	
1551286	DB02	8/16/2017 0:00	08N	433134	7047690		1145	Auger	60	C	Subtle Slope	Light Brown	Subalpine Fir	Reindeer Moss	Damp	Good	Silt		