

Biogeochemistry - Humus sampling Arch Grid. August 2013														
line	station	map_easting	map_northing	ELEVATION	date_sampled	sampler	sample_no	humus_dup	humus_easting	humus_northing	site_drainage	slope	aspect	vegetation
1000	0S	571158	6819184		AUG 14/13	DEB, WINSTON, CODY	H10000		571157	6819183	MODERATE	SLOPE	SW	SPRUCE, MOSSBERRY, LAB TEA, BLUEBERRY, DWARF BIRCH
1000	50S	571133	6819141	1219	AUG 16/13	DEB AND CODY	H10050		571127	6819134	GOOD TO MODERATE	SLOPED RIDGETOP	S	WHITE SPRUCE, WILLOW, DWARF BIRCH
1000	100S	571108	6819098	1196	AUG 16/13	DEB AND CODY	H10100		571104	6819102	GOOD	RIDGE TOP TO SLOPE	S	SPRUCE, WILLOW, ALDER, ROSE, VETCH, FIREWEED, LAB TEA, GRASS
1000	150S	571083	6819054	1197	AUG 16/13		H10150		571055	6819056	MODERATE	RIDGE TOP - RIM	SW	SPRUCE, ALDER, WILLOW, ROSE, FIREWEED, LAB TEA, BLUEBERRY
1000	200S	571058	6819011	1191	AUG 16/13	DEB, WINSTON, CODY	H10200		571049	6819012		RIDGE TOP TO SLOPE	S	SPRUCE, WILLOW, CRANBERRY, LAB TEA, ASPEN, SOAPBERRY, HORSETAILS, ROSE
1000	250S	571033	6818968	1182	AUG 16/13	DEB, WINSTON, CODY	H10250		571045	6818967	GOOD	SLOPE	S	SPRUCE, ASPEN, WILLOW, ROSE, FIREWEED, LAB TEA, SOAPBERRY, CRANBERRY
1000	300S	571008	6818924	1151	AUG 16/13	DEB, WINSTON, CODY	H10300		570997	6818933	GOOD	SLOPE	S	SPRUCE, WILLOW, PEA, ALDER, SOAPBERRY
1000	350S	570983	6818881	1160	AUG 16/13	DEB, WINSTON, CODY	H10350		570982	6818892	GOOD	SLOPE	SE	SPRUCE, ALDER, ROSE, FIREWEED, WINTERGREEN, FIREWEED, ASPEN, SOAPBERRY
1000	400S	570958	6818838		AUG 16/13	DEB AND WINSTON	H10400		570954	6818833	GOOD	RIDGE TOP TO SLOPE	S	W/ SPRUCE, WILLOW, JUNIPER, ASPEN,
1000	450S	570933	6818795	1144	AUG 16/13	DEB AND WINSTON	H10450		570945	6818809	GOOD	SLOPE	S	SPRUICE, WILLOW, SOAPBERRY, WINTERGREEN, ROSE, JUNIPER
1000	500S	570908	6818751	1135	AUG 16/13	DEB AND WINSTON	H10500		570911	6818756	GOOD	SLOPE	W	SPRUCE, WILLOW, ASPEN, SOAPBERRY, JUNIPER
1000	550S	570883	6818708	1130	AUG 16/13	DEB AND WINSTON	H10550		570874	6818712	GOOD	RIDGE TOP	NW	SPRUCE, WILLOW, LAB TEA, ALDER, ROSE, CRANBERRY, MOSS BERRY
1000	600S	570858	6818665	1102	AUG 16/13	DEB AND WINSTON	H10600		570846	6818668	MODERATE	SLOPE	W	SPRUCE, ALDER, LAB TEA, ROSE, CRANBERRY
1000	650S	570833	6818621		AUG 16/13	DEB AND WINSTON	H10650		570830	6818622	GOOD	SLOPE	W	W>B SPRUCE, FIREWEED, ROSE, CRANBERRY, JUNIPER, WINTERGREEN
1000	700S	570808	6818578		AUG 16/13	DEB AND WINSTON	H10700		570807	6818581	GOOD	SLOPE	W	SPRUCE, WILLOW, SOAPBERRY, ROSE, W>B SPRUCE
1000	800S	570758	6818491	1042	AUG 10 AND 16/13	DEB AND WINSTON	H10800	H10800A	570760	6818500	MODERATE	SLOPE	NE	ALDER, MINOR W. SPRUCE, FIREWEED, GRASS, WINTERGREEN
1200	0S	571331	6819084	1169	AUG 14/13	DEB AND WINSTON	H12000		571338	6819089	GOOD	SLOPE	W	SPRUCE, ALDER, JUNIPER, FIREWEED, GRASS, WINTERGREEN, MOSSBERRY
1200	50S	571306	6819041	1152	AUG 14/13	DEB	H12050		571317	6819039	GOOD	SLOPE	W	SRUCE, JUNIPER, ALDER, GRASS, WILLOW
1200	100S	571281	6818998	1129	AUG 14/13	DEB	H12100		571291	6818999	MODERATE	VALLEY BOTTOM	W	BLACK>WHITE SPRUCE, WILLOW, ALDER, FIREWEED, WINTERGREEN
1200	150S	571256	6818954		AUG 14/13	DEB AND WINSTON	H12150		571260	6818954	MODERATE	SLOPE	NW	BLACK>WHITE SPRUCE, WILLOW, ALSER, LAB TEA, CRANBERRY, MOSS BERRY
1200	200S	571231	6818911	1116	AUG 14/13	DEB AND WINSTON	H12200		571239	6818911	GOOD	SLOPE	W	SPRUCE, WILLOW, GRASS, WINTERGREEN, SOAPBERRY, LAB TEA
1200	250S	571206	6818868	1105	AUG 14/13	DEB AND WINSTON	H12250		571215	6818870	MODERATE	VALLEY BOTTOM	SW	SPRUCE, WILLOW, LAB TEA, WINTERGREEN, HORSETAIL, ALDER, GRASS, CRANBERRY
1200	300S	571181	6818824	1098	AUG 14/13	DEB AND WINSTON	H12300		571190	6818825	MODERATE	SLOPE	SW	SPRUCE, ALDER, WILLOW, ROSE, WINTERGREEN, LAB TEA, GRASS, CRANBERRY, FIEWEED
1200	350S	571156	6818781	1090	AUG 14/13	DEB AND WINSTON	H12350		571169	6818793	MODERATE	VALLEY BOTGTOM	SW	SPRUCE, WILLOW, ALDER, JUMIPER, WINTERGREEN, SOAPBERRY, CRANBERRY
1200	400S	571131	6818738	1093	AUG 14/13	DEB AND WINSTON	H12400		571146	6818740	MODERATE	SLOPE	SW	SPRUCE, WILLOW, SOAPBERRY, GRASS, JUNIPER, ALDER
1200	450S	571106	6818695	1088	AUG 14/13	DEB AND WINSTON	H12450		571101	6818693	MODERATE	SLOPE	S	SPRUCE, WILLOW, HORSETAIL, MOSS BERRY, WILLOW, ROSE, FIREWEED, ALDER, LAB TEA, CRANBERRY
1200	500S	571081	6818651	1085	AUG 14/13	DEB AND WINSTON	H12500		571085	6818649	MODERATE	SLOPE	SW	SPRUCE, ROSE, LAB TEA, WILLOW, ALDER, FIREWEED, CRANBERRY
1200	550S	571056	6818608		AUG 14/13	DEB AND WINSTON	H12550		571054	6818608	MODERATE	SLOPE	SW	BLACK.WHITE SPRUCE, OPEN FOREST, SPRUCE DOMINANT, MIXED AGE. MOD HEALTH STAND.
1200	600S	571031	6818565	1054	AUG 14/13	DEB AND WINSTON	H12600		571042	6818567	MODERATE	VALLEY BOTTOM	W	SPRUCE, WILLOW, ALDER, POPLAR, SOAPBERRY, GRASS
1200	650S	571006	6818521	1043	AUG 14/13	DEB AND WINSTON	H12650		571009	6818516	MODERATE	SLOPE	W	SPRUCE, ALDER, SOAPBERRY, CRANBERRY, WINTERGREEN.
1200	750S	570956	6818435	1055	AUG 14/13	DEB, WINSTON, CODY	H12750		570952	6818435	MODERATE	SLOPE	NE	B AND W SPRUCE, WILLOW, MOSSBERRY, ALDER, LAB TEA, CRANBERRY
1200	800S	570931	6818391		AUG 10 AND 14/13	DEB, WINSTON, CODY	H12800		570939	6818391	POOR	VALLEY BOTTOM	N	SPRUCE, WILLOW, ALDER, LAB TEA, SUB ALPINE, DWARF BIRCH, WINTERGREEN, CRANBERRY, MOSS BERRY, BLUE BERRY
1400	0S	571505	6818984		aug 11/13 AND 18	DEB, WINSTON, CODY	H14000		571506	6818985	MODERATE TO POOR	RIDGE TOP TO SLOPE	W	SPRUCE, WILLOW, LOTS OF DWARF BIRCH, SUB ALPINE, GRASS, LOW BUSH CRANBERRY, BLUEBERRY, MOSSBERRY, LAB TEA
1400	50S	571480	6818941	1200	aug 11/13 AND 18	DEB, WINSTON, CODY	H14050	H14050A	571481	6818942	MODERATE TO POOR	RIDGE TOP	N	SPRUCE, WILLOW, DWARF BIRCH, LAB TEA, MOSSBERRY, LOWBUSH CRANBERRY, SOAPBERRY, BLUEBERRY
1400	100S	571455	6818898	1193	aug 11/13 and 18/13	DEB, WINSTON, CODY	H14100		571455	6818895	POOR TO MOD	RIDGE	SW	SPRUCE, WILLOW, DWARF BIRCH, LAB TEA, SUB ALPINE, BOGGY, GRASS, BLUEBERRY, LOW BUSH CRANBERRY, HORSETAIL
1400	150S	571430	6818854	1191	aug 11/13 AND 18/13	DEB, WINSTON, CODY	H14150		571431	6818854	POOR TO MOD	RIDGE	SW	SPRUCE, WILLOW, DWARF BIRCH, LAB TEA, SUB ALPINE, MOSSBERRY, BLUEBERRY, GRASS, LOW BUSH CRANBERRY
1400	200S	571405	6818811	1185	aug 11/13 AND 18/13	DEB, WINSTON, CODY	H14200		571404	6818811	MODERATE TO POOR	RIDGE	SW	SPRUCE, WILLOW, DWARF BIRCH, LAB TEA, GRASS, BLUEBERRY, MOSSBERRY, BOGGY, LOW BUSH CRANBERRY
1400	250S	571380	6818768	1176	aug 11/13 AND 18/13	DEB, WINSTON, CODY	H14250		571378	6818770	MODERATE	SLOPE	SW	SPRUCE, LAB TEA, ROSE, WILLOW, SUB ALPINE, BOGGY, WINTERGREEN, BIG OVAL, LOW BUSH CRANBERRY, PEA, DWARF BIRCH, MOSSBERRY, GRASS

line	station	map_easting	map_northing	ELEVATION	date_sampled	sampler	sample_no	humus_dup	humus_easting	humus_northing	site_drainage	slope	aspect	vegetation
1400	300S	571355	6818724	1161	aug 11/13 AND 18/13	DEB, WINSTON, CODY	H14300		571362	6818728	MODERATE TO GOOD	SLOPE	NW	SPRUCE, WILLOW, ALDER, LESSER LAB TEA, SOAPBERRY, MOSSBERRY, LOW BUSH CRANBERRY, BIG OVAL
1400	350S	571330	6818681		aug 11/13 AND 18/13	DEB AND WINSTON	H14350		571328	6818678	MODERATE TO POOR	SLOPE	N	SPRUCE, ALDER, WILLOW, SUB-ALPINE, SOME LAB TEA, CRANBERRY, HORSETAIL, BLUEBERRY
1400	400S	571305	6818638		aug 11/13 AND 18/13	DEB, WINSTON, CODY	H14400		571308	6818649	POOR	RIDGE TOP	FLAT	SPRUCE, LAB TEA, DWARF BIRCH, SUB ALPINE, LOW BUSH CRANBERRY, BIG OVAL, GRASS, HORSETAIL
1400	450S	571280	6818595		AUG 18/13	DEB, WINSTON, CODY	H14450		571322	6818598	MODERATE	RIDGE TOP	FLAT	SPRUCE, DWARF BIRCH, LAB TEA, GRASS, STUNTED TREES, BLUBERRY, WILLOW
1400	500S	571255	6818551		AUG 11/13 AND 18/13	DEB, WINSTON, CODY	H14500		571249	6818551	GOOD	RIDGETOP	S	SPRUCE, POPLAR, ALDER, BIG OVAL, SOAPBERRY
1400	550S	571230	6818508	1136	AUG 11/13 and 18/13	DEB, WINSTON, CODY	H14550		571236	6818513	GOOD	SLOPE	S	SPRUCE, WILLOW, ALDER, GRASS, POPLAR, LAB TEA, BIG OVAL, FIREWEED. TREE DOMINANT
1400	600S	571205	6818465	1085	AUG 10/13 AND AUG 11/13	DEB	H14600		571202	6818463	MODERATE TO POOR	SLOPE	S	SPRUCE, MINOR WILLOW, LAB TEA, ALDER
1400	650S	571180	6818421		AUG 10 AND 11/13	DEB	H14650		571175	6818416	POOR	SLOPE TO VALLEY BOTTOM	S	SPRUCE, ALDER, WILLOW, LAB TEA, MOSS
1400	700S	571155	6818378	1065	AUG 10/13 13/13	DEB	H14700	H14700A	571150	6818389	MODERATE	SLOPE	SW	SPRUCE, WILLOW, LAB TEA, CRANBERRY
1400	800S	571105	6818291	1062	AUG 13/13	DEB	H14800		571104	6818290	MODERATE	SLOPE	NE	SPRUCE, WILLOW, ALDER, LAB TEA
1600	0S	571678	6818884	1236	AUG 13/13	DEB, WINSTON, CODY	H16000		571677	6818881	MODERATE TO GOOD	SLOPE	SW	SPRUCE, WILLOW, ALDER, LAB TEA, CRANBERRY, HORSETAIL, GRASS
1600	50S	571653	6818841	1224	AUG 12/13	DEB, WINSTON, CODY	H16050		571643	6818838	MODERATE	SLOPE	SW	SPRUCE, WILLOW, BLUEBERRY, ALDER, LAB TEA, CRANBERRY, MOSSBERRY
1600	100S	571628	6818798	1211	AUG 12/13	DEB, WINSTON, CODY	H16100		571627	6818798	MODERATE	SLOPE	SW	SPRUCE, WILLOW, ALDER, LAB TEA, CRANBERRY, BLUEBERRY
1600	150S	571603	6818754	1190	AUG 12/13	DEB, WINSTON, CODY	H16150		571608	6818759	MODERATE	SLOPE	SW	SPRUCE, WILLOW, CRANBERRY, GRASS, HORSETAIL, ALDER, JUNIPER
1600	200S	571578	6818711	1180	AUG 12/13	DEB, WINSTON, CODY	H16200		571580	6818708	POOR	SLOPE	SW	SPRUCE, WILLOW, DWARF BIRCH, MOSSBERRY, LAB TEA, GRASS, HORSETAIL
1600	250S	571553	6818668	1180	AUG 12/13	DEB, WINSTON, CODY	H16250		571554	6818663	POOR	SLOPED RIDGETOP	W	SPRUCE, GRASS, LAB TEA MUTANT, DWARF BIRCH, HORSETAIL, LAB TGEA,
1600	300S	571528	6818625	1179	AUG 12/13	DEB, WINSTON, CODY	H16300		571534	6818626	POOR	SLOPING RIDGE TOP	W	SPRUCE, WILLOW, DWARF BIRCH, LAB TEA, "RED MOSS"
1600	350S	571503	6818581	1179	AUG 12/13	DEB, WINSTON, CODY	H16350		571499	6818585	MODERATE	RIDGE TOP	W	SPRUCE, WILLOW, SUB ALPING, DWARF BIRCH, LAB TEA, GRASS, MOSSBERRY, LOW BUSH CRANBERRY
1600	400S	571478	6818538	1176	AUG 13/13	DEB, WINSTON, CODY	H16400		571476	6818538	MODERATE	RIDGE TOP TO SLOPE	W	SPRUCE, WILLOW, DWARF BIRCH, GRASS, BLUEBERRY, CRANBERRY, MINOR LAB TEA
1600	450S	571453	6818495	1166	AUG 13/13	DEB, WINSTON, CODY	H16450		571456	6818498	POOR TO MODERATE	RIDGE TOP	W	SPRUCE, WILLOW, LAB TEA, BLUEBERRY, SAUB ALPINE
1600	500S	571428	6818451	1155	AUG 13/13	DEB, WINSTON, CODY	H16500		571432	6818451	GOOD	SLOPE	S	SPRUCE, WILLOW, ROSE, FIREWEED, CRANBERRY, SOAPBERRY
1600	550S	571403	6818408	1110	AUG 12/13	DEB, WINSTON, CODY	H16550		571398	6818397	GOOD	SLOPE	S	SPRUCE, ALDER, CRANBERRY, ROSE, GRASS
1600	600S	571378	6818365	1108	AUG 12/13	DEB, WINSTON, CODY	H16600		571375	6818361	MODERATE TO POOR	SLOPE	S	SPRUCE, WILLOW, ALDER, GRASS, HORSETAIL, SPARSE LAB TEA
1600	650S	571353	6818321	1130	AUG 12/13	DEB, WINSTON, CODY	H16650		571352	6818332	MODERATE	SLOPE	NW	SPRUCE, ALDER, WILLOW, LAB TEA, CRANBERRY
1600	700S	571328	6818278	1135	AUG 12/13	DEB, WINSTON, CODY	H16700		571334	6818287	MODERATE TO GOOD	SLOPE FOR SGH, RIDGETOP FOR HUMUS	SW	WILLOW, ALDER FOR SGH - WILLOW, ALDER, POPLAR, LAB TEA, FIREWEED FOR HUMUS
1600	800S	571278	6818191	1076	AUG 13/13	DEB, WINSTON, CODY	H16800		571278	6818188	MODERATE	VALLEY BOTTOM	FLAT, N	SPRUCE, ALDER, POPLAR
0E	30S	571139	6818634	1085	AUG 18/13	DEB, WINSTON, CODY	H0E30S		571139	6818634	MODERATE	VALLEY BOTTOM	N	SPRUCE, WILLOW, ALDER
0E	15S	571147	6818652	1089	AUG 18/13	DEB, WINSTON, CODY	H0E15S		571147	6818652	MODERATE	SLOPE	NW	SPRUCE, WILLOW, ALDER
0E		571159	6818662	1091	AUG 18/13	DEB, WINSTON, CODY	H0E		571159	6818662	MODERATE	SLOPE	NW	SPRUCE, ALDER, LAB TEA, CRANBERRY, WILLOW, MOSSBERRY, BLUEBERRY, GRASS
0E	15N	571166	6818678		AUG 18/13	DEB, WINSTON, CODY	H0E15N		571166	6818678	MODERATE	SLOPE	N	SPRUCE, ALDER, CRANBERRY, LAB TEA, WINTERGREEN
0E	30N	571170	6818681		AUG 18/13	DEB, WINSTON, CODY	H0E30N		571170	6818681	MODERATE TO GOOD	SLOPE	NW	SPRUCE, WILLOW, JUNIPER, ROSE, ALDER, WINTERGREEN, FIREWEED, SOAPBERRY
0W	30S	571120	6818649		AUG 18/13	DEB, WINSTON, CODY	H0W30S		571120	6818649	MODERATE	VALLEY BOTTOM	S	SPRUCE, WILLOW, ALDER, FIREWEED, SOAPBERRY, ROSE
0W	15S	571143	6818656		AUG 18/13	DEB, WINSTON, CODY	H0W15S		571143	6818656	MODERATE	SLOPE	N	SPRUCE, WILLOW, WINTERGREEN, LAB TEA, OVAL LEAF
0W		571147	6818676		AUG 18/13	DEB, WINSTON, CODY	H0W		571147	6818676	MODERATE	SLOPE	W	SPRUCE, WILLOW, ALDER, FIREWEED
0W	15N	571147	6818692		AUG 18/13	DEB, WINSTON, CODY	H0W15N		571147	6818692	MODERATE	VALLEY BOTTOM	SW	SPRUCE, WILLOW, POPLAR, OVAL LEAF, ROSE
0W	30N	571156	6818707		AUG 18/13	DEB, WINSTON, CODY	H0W30N		571156	6818707	MODERATE TO POOR	VALLEY BOTTOM	SW	SPRUCE, WILLOW, ALDER, VETCH, OVAL LEAF, WINTERGREEN

line	station	sample_horizon	texture	colour	sample_depth	rock_chips	round_angle	ash	ash_location	nearby_disturb	notes	COMMENTS	Sample#	Li_ppm	Be_ppm
1000	0S	HUMUS	ORGANIC, DAMP	DARK BROWN	55			Y	BENEATH		OPEN FOREST, MODERATE HEALTH, DWARF BIRCH		H10000	10.1	0.51
1000	50S	HUMUS - MIDDLE	ORGANIC +/- ASH	BROWN	15			Y	BENEATH		DRY, RIDGE AND SOUTH ASPECT SLOPE. OPEN FOREST, MIXED AGE, MOD TO GOOD HEALTH		H10050	7.3	0.34
1000	100S	HUMUS - LOWER	ORGANIC	DARK BROWN	40			Y	BENEATH		SILT/CLAY UNDERNEATH SAMPLE. W. SPRUCE DOMINANT, OPEN MOD HEALTH.		H10100	7.1	0.34
1000	150S	HUMUS	ORGANIC, MIXED WITH MIDDLE LAYER	DARK BROWN	40			N			MODERATELY OPEN, MODERATELY HEALTHY, WILLOW DOMINANT		H10150	8.8	0.39
1000	200S	HUMUS - MIDDLE	ORGANIC +/- ASH	BROWN	25			Y	TINY BIT IN SAMPLE		MOSTLY SPRUCE, MIXED AGE, FAIRLY OPEN, GOOD TO MODERATE HEALTH	ORGANIC +/- ASH	H10200	8.5	0.3
1000	250S	HUMUS	ORGANIC	DARK BROWN	25			Y	UNDERNEATH		MOSTLY SPRUCE AND WILLOW, MIXED AGE, FAIRLY OPEN, MODERATE HEALTH		H10250	9.3	0.5
1000	300S	HUMUS	ORGANIC	BROWN	17			N			NEARBY CREEK DRAW, CLOSE FOREST, MIXED AGE, MODERATE HEALTH, MOSTLY SPRUCE		H10300	9.9	0.37
1000	350S	HUMUS	ORGANIC	DARK BROWN	13			N			CLOSED FOREST, MOSTLY SPRUCE OR ALDER, MIXED AGE, MODERATE HEALTH		H10350	8.5	0.34
1000	400S	HUMUS - MIDDLE	ORGANIC, DEAD MOSS	RED BROWN	9			Y	BENEATH		SPRUCE DOMINANT, MIXED AGE. DRY CANYON RIM		H10400	11.4	0.35
1000	450S	HUMUS - MIDDLE	ORAGANIC + SILT/CLAY	BROWN	19			Y	MIXED IN SAMPLE		RIM OF CANYON. ACTUAL STATION IN SPACE. HUMUS SAMPLE MIX OF HUMUS, CLAY, ASH AND SILT.SPRUCE AND ASPEN AT RIM, SPRUCE BELOW.		H10450	10.1	0.44
1000	500S	HUMUS - MIDDLE	ORGANIC +/- SILT	BROWN	36			N			CANYON RIM. DRY SITE. NO BLACK SPRUCE. SPRUCE ON LOWER SLOPELS, ASPEN ABOVE.		H10500	9.3	0.25
1000	550S	HUMUS - LOWER	ORGANIC - DAMP	BROWN	36			Y	BENEATH		CANYON RIM, MOD HEALTH, MOD OPEN FOREST, SPRUCE DOMINANT.		H10550	7.2	0.32
1000	600S	HUMUS	ORGANIC	BLACK	31			Y	BENEATH		MOD OPEN FOREST, MIXED AGE. W SPRUCE DOMINANT.		H10600	9.9	0.43
1000	650S	HUMUS - LOWER	ORGANIC	DARK BROWN	30			Y	BENEATH		SPRUCE DOMINANT, MIXED AGE, MOD HEALTH		H10650	8.2	0.37
1000	700S	HUMUS	ORGANIC	DARK BROWN	32			N			CLAY UNDERNEATH HUMUS. MIXED AGE FOREST. SPRUCE DOMINANT.		H10700	11.9	0.41
1000	800S	HUMUS - LOWER	ORGANIC - DAMP	BLACK	5 AND 33	BENEATH	SUBROUNDED	N		PLACER ROAD BELOW	UNSTABLE SLOPE WITH LOTS OF ALDER, MOD HEALTH OVERALL.		H10800	12.8	0.42
1200	0S	JUMUS - MIDDLE AND SILT	ORGANICS AND SILT	DARK GREY BROWN	15			N		CUTLINE NEARBY	MIXED AGE. STAND HEALTH MOD TO GOOD.		H12000	8.1	0.45
1200	50S	HUMUS - MIDDLE	DEAD MOSS AND PEAT	DARK BROWN	20			Y	NENEATH		MIDDLE TO OLD AGED FOREST. MOD CLOSED, MOD HEALTH. STEEP SLOPE ON TILLABOVE CREEK.		H12050	8.5	0.38
1200	100S	HUMUS-MIDDLE	ORGANIC MIXED WITH SILT	BROWN GREY	5			N			OPEN FOREST ALONG CREEK. MATURE SPRUCE WITH ALDER. MOD TO GOOD FOREST HEALTH. PERIODIC INUNDATIONS OF SILT.		H12100	12.6	0.38
1200	150S	HUMUS-LOWER	PEAT	DARK BROWN	45			Y	BENETH	LINE OF OLD FLAGGING	OPEN FOREST, MODERATE HEALTH, SIDE OF VALLEY		H12150S	10.3	0.33
1200	200S	JUMUS - MIDDLE AND LOWER	ORGANIC	DARK BROWN	32			Y	A LITTLE IN SAMPLE		ENCLOSED FOREST, STEEP SLOPE, DOMINANT SPRUCE AND ALDER, MODERATELY HEALTHY, MIXED AGE TREES		H12200	7.4	0.38
1200	250S	HUMUS	ORGANIC, CLAY	DARK BROWN	25			N			CLOSING FOREST, MIXED AGE, DOMINANTLY ALDER, MODERATE HEALTH		H12250	12.1	0.4
1200	300S	HUMUS - MIDDLE	ORGANIC	DARK BROWN	30			Y	BENEATH AND MIXED		MODERATELY OPEN, MIXED AGE, MODERATELY HEALTHY		H12300	11.2	0.46
1200	350S	JUMUS - MIDDLE		BROWN	15	BENEATH	SUBANGULAR	N		OLD CUT LINE	TIGHT GROWTH, MIXED AGE, MODERATELY HEALTHY, SPRUCE AND ALDER DOMINANT		H12350	10.9	0.37
1200	400S	HUMUS - MIDDLE	ORGANIC, DEAD MOSS	BROWN	15	BEANEATH	SUBANGULAR	N			MODERATELY OPEN, MIXED AGE, MODERATE HEALTH, SPRUCE DOMINANT		H12400	11.4	0.33
1200	450S	HUMUS	PEATY	DARK BROWN	25			Y		CLAIM LINE	MODERATELY OPEN, SPRUCE DOMINANT, MODERATE HEALTH		H12450	10.3	0.42
1200	500S	HUMUS - MIDDLE	ORGANIC AND CLAY	DARK BROWN	20	BENEATH	SUBANGULAR	N			MOD OPEN FOREST OF BLACK SPRUCE. MIXED AGE, MOD HEALTH.		H12500	9.4	0.36
1200	550S	HUMUS - MIDDLE	DEAD MOSS AND ROOTS	BROWN	27			Y	BENEATH		OPEN FOREST, SPRUCE DOMINANTSTAND HEALT MOD.		H12550	10.2	0.32
1200	600S	HUMUS - UPPER AND MIDDLE	DEAD MOSS AND ROOTS	BROWN	12	BENEATH	ANGULAR	N			OPEN SPRUCE AND POPLAR FOREST. BENCH ABOVE CREEK, BESIDE SECONDARY CHANNEL.		H12600	12.8	0.36
1200	650S	HUMUS - MIDDLE	DEAD MOSS	BROWN	15	BENEATH	ANGULAR	N		WATERLINE FOR PLACEDR DOWN CREEK	MOD OPEN FOREST, MIXED AGE. MOD HEALTH.		H12650	12.2	0.37
1200	750S	HUMUS	ORGANIC AND CLAY	DARK BROWN	35			Y	BENEATH	NEARBY PLACER MINING	MODERATLEY OPEN FOREST, MODERATE HEALTH		H12750	10.8	0.43
1200	800S	HUMUS	PEAT + CLAY	DARK BROWN	20	BENEATH	SUBANGULAR TO ROUNDED PEBBLES, SAND, GRAVEL	N		15M FROM PPLACER	SPRUCE>LAB TEA>ALDER>DWARF BIRCH. YOUNG TO MIDDLE AGED STAND. OPEN, BOGGY, HUMMOCKY. MOD OPEN STAND. SGH TAKEN SEPARATELY FROM OTHERS.		H12800	12.2	0.42
1400	0S	HUMUS MAYBE Ah	ORGANIC - WET	BLACK	25			Y	BENEATH	OLD CUTLINE, SQUARED POST	DWARF BIRCH DOMINANT. OPEN STUNTED SPRUCE GIVING WAY TO SHRUBS. MIXED AGE	SGH SAMPLED LATER	H14000	9.1	0.57
1400	50S	HUMUS AND Ah?	PEAT AND SILT-CLAY	DARK BROWN	25			Y	BENEATH		SUB ALPINE, BOG FOREST, SHRUBS INCREASING. OPEN SPRUCE, STUNTED, MOD HEALTH, MOSTLY SPRUCE, MIXED AGE	SGH SAMPLED LATER	H14050	8.5	0.36
1400	100S	HUMUS - LOWER, MAYBE Ah	organic, silt and clay	BLACK	35			Y	BENEATH		OPEN SPRUCE FOREST, SUB ALPINE RIDGE TOP. HUMMOCKY, MIXED AGE. MOD HEALTH. Lots of willow and birch.		H14100	10.7	0.44
1400	150S	HUMUS - LOWER, MAYBE Ah	organic, silt and clay	black	25			Y	BENEATH		OPEN SPRUCE FOREST, SUB ALPINE, BOGGY, MIXED AGE, MOD HEALTH.		H14150	12.1	0.49
1400	200S	HUMUS	PEATY	BLACK	25			Y	BENEATH	OLD CUTLINE TO NW	HUMMOCKY RIDGETOP. SPRUCE DOMINANT, OPEN FOREST, MIXED AGE. SOME DEAD, REST MOD HEALTH.		H14200	11.2	0.51
1400	250S	HUMUS - LOWER, MAYBE A	PEAT, SILT CLAY	BLACK	30			Y	BENEATH		AT EDGE OF BENCH. NEAR TOP OF GLACIAL OVERBURDEN? MOD TO GOOD HEALTH STAND, OPEN FOREST, SPRUCE DOMINANT, MIXED AGE.	SGH SAMPLED LATER	H14250	11.5	0.46

line	station	sample_horizon	texture	colour	sample_depth	rock_chips	round_angle	ash	ash_location	nearby_disturb	notes	COMMENTS	Sample#	Li_ppm	Be_ppm
1400	300S	HUMUS - MIDDLE	MOSSY TO PEATY	BROWN	15			Y	BENEATH	LINE OF OLD FLAGGING	SPRUCE DOMINANT, VARIABLY OPEN, MIXED AGE SPRUCE, SOME DEAD, MAJORITY MOD HEALTH.	SGH SAMPLED LATER	H14300	11.7	0.63
1400	350S	HUMUS - LOWER	PEATY	BLACK-DARK BROWN	35	BENEATH		N		OLD FLAGGING	HUMMOCKY, SOLIFLUCTION SLOPE OF SIDE OF DRAW. MOD HEALTH, STUNTED OR SUB ALPINE. PERMAFROST BELOW SAMPLE. SPRUCE AND ALDER DOMINANT, FAIRLY OPEN.		H14350	12	0.43
1400	400S	HUMUS	ORGANIC, PEATY	BROWN	40			Y	BENEATH		FLAT, HUMMOCKY, SLIGHTLY BOGGY, SPRUCE, OPEN FOREST, MIXED AGE, MOD HEALTH, MOSTLY SPRUCE		H14400S	9.5	0.47
1400	450S	HUMUS	ORGANIC	DARK BROWN	25			Y	BENEATH		MOVED 36M EAST OFF LINE TO SAMPLE. STAKE IN MIDDLE OF STEEP DRAW. ON TOP OF GRAVEL BOWL, OPEN FOREST, MIXED AGE, MOD HEALTH, MOSTLY SPRUCE.		H14450	10.3	0.49
1400	500S	HUMUS	PEAT, ORGANIC	DARK BROWN/BLACK	30			Y	BENEATH AND SOME IN SAMPLE		ON EDGE OF BIG GRAVEL BOWL, SPRUCE DOMINANT, OLD GROWTH FOREST, LIMITED VEGT UNDER CANOPY, GOOD HEALTH, VERY DRY		H14500S	9.1	0.42
1400	550S	HUMUS	ORGANIC - PEAT	DARK BROWN	20			N			MATURE FOREST, MODERATE HEALTH. OLD GROWTH, SPRUCE DOMINANT, CLOSED CANOPY		H14550	7.7	0.43
1400	600S	HUMUS	ORGANIC +/- SILTY	DARK BROWN	25			Y	UNDERNEATH		MANY TREES IN POOR HEALTH OR DYING.		H14600	9.1	0.4
1400	650S	HUMUS	PEAT AND ORGANIC	BLACK	25			N			MIXED AGE STAND, SOME DEAD, OTHERS WITH DEAD BRANCHES. YOUNG SPRUCE.		H14650	11.5	0.49
1400	700S	HUMUS	PEATY, SOME CLAY	DARK BROWN	30			Y	BENEATH	AT EDGE OF NEW ROAD	POOR HEALTH FOREST. LOTS OF LAB TEA AND CRANBERRY. MODERATELY OPEN FOREST NEAR CREEK.		H14700	10.9	0.42
1400	800S	HUMUS	ORGANIC - PEAT	BROWN - DARK BROWN	40			N			MOD OPEN FOREST, POOR HEALTH. PERMAFRST BENEATH SAMPLE. 15M AWAY FROM CREEK.		H14800	9.9	0.32
1600	0S	HUMUS	PEAT +/- ASH	BROWN	25			Y	SOME MIXED IN		OPEN FOREST, ALDER DOMINANT, MODERATE HEALTH. SLOPE AT BASE OF MOUNTAIN.		H16000	9.8	0.48
1600	50S	HUMUS	PEATY, CLAY	DARK BROWN	20			N			CLOSING CANOPY, SPRUCE DOMINANT, A FEW ALDER, MODERATE HEALTH		H16050	9.5	0.47
1600	100S	HUMUS	PEATY	DARK BROWN	30			Y	BENEATH		OPEN, MODERATE HEALTH, MIXED AGE, LAB TEA DOMINANT		H16100	10.4	0.37
1600	150S	HUMUS	PEATY, DAMP	DARK BROWN	20			Y	BENEATH		CANOPY CLOSING, MODERATE HEALTH, MIXED AGE, SPRUCE DOMINANT		H16150	9.8	0.4
1600	200S	HUMUS	PEATY, DAMP	DARK BROWN	15			Y	BENEATH	OLD FLAGGING NEARBY	OPEN, MODERATE HEALTH, MIXED AGE, SPRUCE DOMINANT		H16200	12.1	0.46
1600	250S	HUMUS	ORGANIC	DARK BROWN	35			Y	BENEATH		OPEN, MODERATE HEALTH BOG FOREST, SMALL STANDING WATER, MIXED AGE, DWARF BIRCH DOMINANT		H16250	13.1	0.52
1600	300S	HUMUS	ORGANIC	DARK BROWN	30			Y	BENEATH		OPEN, MILDLY UNHEALTHY, BOGGY		H16300	12.9	0.61
1600	350S	HUMUS	ORGANIC	DARK BROWN	25			N			SMALL Ah MIXED IN. DWARF BIRCH DOMINANT, MIXED AGE STAND, VERY OPEN FOREST, SOMEWHAT UNHEALTHY		H16350	10.7	0.46
1600	400S	HUMUS	ORGANIC	DARK BROWN	40			Y	BENEATH	BASELINE OF OLD GRID. 56 +50N	SLIGHT SLOPE OUT OF BOGGY AREA. STAND OF OLD SPRUCE. MORE CLOSED IN THAN BOG. DWARF BIRCH DOMINANT. MOD TO POOR HEALTH.		H16400	10.4	0.5
1600	450S	HUMUS	ORGANIC	DARK BROWN BLACK	45			Y	BENEATH		FLATTISH, SEMI-BOGGY, LOTS OF MOSS, OPEN FOREST, SMALLER TREES.		H16450	11.5	0.49
1600	500S	HUMUS	PEATY	BROWN	15			N			MATURE FOREST, MOD HEALTH, WELL DRAINED SLOPE, SPRUCE DOMINANT		H16500	10.6	0.5
1600	550S	HUMUS - DEAD MOSS	MOSSY, PEATY	BROWN	10			Y	UNDERNEATH AND MIXED IN		WELL DRAINE DSLOPE ABOVE CREEK, MOD FOREST CANOPY, MOD HEALTH.		H16550	12.9	0.46
1600	600S	HUMUS	ORGANIC	DARK BROWN	25			N			CLOSE TO CREEK. SPRUCE UNHEALTHY, DECIDUOUS HEALTHY, MOD CLOSED, MIXED AGE SPRUCE		H16600	8.8	0.4
1600	650S	HUMUS	ORGANIC	DARK BROWN	30			N			SPRUCE AND ALDER OPEN FOREST, MIXED AGE, UNHEALTHY TREES. ABOVE CREEK		H16650	10	0.36
1600	700S	CLAY +/- ORGANICS FOR SGH, HUMUS FOR HUMUS	ORGANIC	BROWN GREY FOR SGH, BROWN FOR HUMUS	5 FOR SGH, 10 FOR HUMUS			Y	ASH IN HUMUS, NOT IN SGH	ROAD BELOW	ON GRAVEL/CALY BANK ABNOVE ROAD. DIFF LOCATION FOR SGH AND HUMUS SAMPLES.		H16700	10	0.4
1600	800S	HUMUS	ORGANIC	BROWN	30			Y	BENEATH		GOOD-MODERATE HEALTH STAND, MIXED OLDER FOREST. LOCATED ON BENCH 2M ABOVE CREEK.		H16800	12.7	0.44
0E	30S	HUMUS - LOWER	ORGANIC	DARK BROWN	23			N		ABOVE TECK SHOWING	MINI GRID AROUND TECK SHOWING. BESIDE INTERMITTENT CREEK. ALDER DOMINANT. WHITE SPRUCE POOR HEALTH.		HOE30S	14.1	0.4
0E	15S	HUMUS-MIDDLE	PEAT- DEAD MOSS	BROWN	25			N		OLD FLAGGING. ABOVE TECK SHOWING	MINI GRID AROUND TECK SHOWING. MODERATELY OPEN, MOD TO GOOD EHALTH.		HOE15S	10.6	0.3
0E		HUMUS	ORGANIC	DARK BROWN	52	BENEATH SAMPLE		N		OLD FLAGGING L8+25E 9+25N. ABOVE TECK SHOWING O/C	MINI GRID AROUND TECK SHOWING. FAIRLY OPEN, MIXED AGE, MODERATE HEALTH, ALDER AND SPRUCE DOMINANT		HOE	10.8	0.52
0E	15N	HUMUS - LOWER	ORGANIC	DARK BROWN	25			N		OLD FLAGGING 8+25E 9+40N	MINI GRID AROUND TECK SHOWING. ALDER DOMINANT. CLAY AND GRAVEL UNDER SAMPLE. OPEN FOREST.		HOE15N	8.7	0.3
0E	30N	HUMUS-LOWER	ORGANIC	DARK BROWN	20	YES	ANGULAR TO SUBROUNDED	N		ABOVE TECK TRENCH	MOD OPEN FOREST, SPRUCE DOMINANT	MINI GRID AROUND TECK SHOWING	HOE30N	11.8	0.47
0W	30S	HUMUS - MIDDLE	PEATY, DEAD MOSS	BROWN	15	Y	SUBROUNDED	Y		ON OLD CAT TRACK	BENCH ABOVE CREEK. WILLOW AND ALDER ON OLD CAT ROAD. MIXED AGE, MOD HEALTH.		HOW30S	9.7	0.38
0W	15S	HUMUS - MIDDLE	PEATY	BROWN	24			N		O/C ABOVE	MINI GRID AROUND TECK SHOWING. MIXED AGE, MOD HEALTH. ON SLOPE ABOVE CREEK.		HOW15S	13.5	0.57
0W		HUMUS - MIDDLE	PEATY	BROWN	15	BENEATH	SUBANGULAR	N		BELOW TECK TRENCH	ON SIDE OF CREEK. MOD HEALTH STAND, ALDERA ND SPRUCE STAND ON BENCH ABOVE CREEK.		HOW	11.3	0.35
0W	15N	HUMUS -MIDDLE +/- ASH, SILT	PEATY AND SILT	BROWN	10	YES	SUBROUNDED	Y	IN SAMPLE	5M AWAY FROM TRENCH	MINI GRID AROUND TECK SHOWING. FLOODPLAIN, SILT AND ASHJ MIXED WITH HUMUS. MIXED ALDER>POPLAR AND WHITE SPRUCE, CLOSED FOREST.		HOW15N	11.2	0.45
0W	30N	HUMUS - MIDDLE	PEATY	DARK BROWN	20			N		TRENCH AND O/C	BENCH ABOVE CREEK. LESS INUDATION THAN 15N		HOW30N	11.8	0.42

line	station	B_ppm	Na_%	Mg_%	Al_ppm	Si_%	K_%	Ca_%	Sc_ppm	Ti_ppm	V_ppm	Cr_ppm	Mn_ppm	Fe_%	Co_ppm	Ni_ppm	Cu_ppm	Zn_ppm	Ga_ppm	Ge_ppm	As_ppm	Se_ppm	Rb_ppm	Sr_ppm	Y_ppm	Zr_ppm	Nb_ppm
1000	0S	10	0.04	0.88	>10000	<0.2	0.09	2	5.3	711	50	30	934	2.9	14.4	44	40.3	110	5.2	0.1	12	<10	9.14	71.8	10.9	7.3	0.316
1000	50S	8	0.05	0.86	>10000	<0.2	0.13	0.9	4.8	629	50	10	394	2.88	13.1	42	26.8	77	5.1	<0.1	8	<10	7.16	38	6.78	5.4	0.296
1000	100S	9	0.05	0.82	>10000	<0.2	0.13	1.5	5.3	732	70	20	270	2.78	12.3	37	24.7	72	5.4	<0.1	8	<10	14	46.7	6.4	6.6	0.296
1000	150S	10	0.06	1.09	>10000	<0.2	0.15	1.8	6	751	60	30	377	2.89	15.1	43	30	96	5.5	0.1	8	<10	12.3	50.3	8.39	7.4	0.249
1000	200S	13	0.06	0.96	>10000	<0.2	0.17	1.7	4.9	708	50	20	490	2.72	13.5	42	33.7	88	4.8	0.1	6	<10	15.6	57.6	7	6.3	0.25
1000	250S	6	0.04	0.94	>10000	<0.2	0.11	1.3	5.7	702	50	20	930	3.23	17.9	53	32.7	133	5.5	0.1	8	<10	11	44.5	10.1	8.7	0.303
1000	300S	7	0.05	1.00	>10000	<0.2	0.12	1.1	5.8	705	50	20	382	2.9	13.5	46	28.9	78	5.2	<0.1	7	<10	8.84	42.3	6.83	7.2	0.244
1000	350S	10	0.05	0.98	>10000	<0.2	0.14	1.5	5.7	775	60	30	356	3.1	14.3	49	37.9	70	5.1	0.1	8	<10	8.59	37.7	7.47	7.1	0.242
1000	400S	15	0.05	1.31	>10000	<0.2	0.19	2.5	5.7	688	50	40	727	3.27	19.8	88	43	95	5.3	0.1	10	<10	31.4	75.3	9.06	7.6	0.274
1000	450S	11	0.05	1.21	>10000	<0.2	0.12	1.1	5.8	685	50	40	466	3.43	20.1	99	38.6	90	5.7	0.1	6	<10	11.8	34.9	9.2	7.9	0.218
1000	500S	11	0.04	1.66	>10000	<0.2	0.15	1.7	5	553	50	50	347	3.16	18.3	104	43.7	59	4.8	0.1	7	<10	7.62	41.7	6.26	5.8	0.165
1000	550S	7	0.03	0.71	>10000	<0.2	0.07	1	4.4	619	50	20	197	2.48	10.7	40	22.8	53	5	0.1	6	<10	5.21	37.4	7.56	6.6	0.298
1000	600S	14	0.04	0.98	>10000	<0.2	0.13	2.2	5.7	687	50	30	753	3.09	15.9	53	37.9	166	5.3	0.1	12	<10	14.6	73.4	10.8	8	0.295
1000	650S	14	0.04	0.71	>10000	<0.2	0.12	3.6	5	650	40	<10	206	2.43	8.06	44	32.1	70	4.8	<0.1	10	<10	10.3	100	5.81	7.3	0.352
1000	700S	20	0.06	1.24	>10000	<0.2	0.16	3.4	7.4	760	60	30	634	3.2	18.8	63	45.3	105	6	0.1	11	<10	12.8	87	8.85	8.5	0.238
1000	800S	15	0.05	1.42	>10000	<0.2	0.11	2.3	7.8	884	70	30	600	3.45	19.9	63	53	108	6.2	0.1	7	<10	6.36	55	11.4	8.1	0.217
1200	0S	6	0.05	0.81	>10000	<0.2	0.15	0.8	5.9	694	60	20	523	3.23	16.5	50	33.6	80	5.8	<0.1	4	<10	9.58	30.8	8.13	7.4	0.317
1200	50S	13	0.07	0.80	>10000	<0.2	0.28	1.4	6.1	649	50	20	376	3.16	16.6	46	31.8	72	5.4	0.1	7	<10	10.5	48.1	8.62	7.5	0.322
1200	100S	16	0.07	2.08	>10000	<0.2	0.22	1.1	8.9	721	100	100	670	4.17	25.3	67	60.4	95	7.6	0.1	8	<10	9.8	49.5	9.46	5.9	0.151
1200	150S	34	0.04	1.01	>10000	<0.2	0.14	3.8	6.2	582	50	20	424	2.76	14.6	46	42.9	90	5	<0.1	9	<10	18.6	90.8	6.94	7.3	0.254
1200	200S	9	0.05	0.78	>10000	<0.2	0.13	1.4	5	594	50	10	621	2.75	14.8	37	31.1	113	5.2	<0.1	6	<10	10.7	56.6	8.58	8.4	0.289
1200	250S	10	0.05	1.25	>10000	<0.2	0.13	2.2	8.3	668	50	40	562	2.84	17.2	53	52.9	88	5.9	<0.1	3	<10	9.7	55.2	10.2	8.7	0.178
1200	300S	10	0.06	1.36	>10000	<0.2	0.16	2.1	8.1	680	70	50	523	3.22	17.7	57	44.6	97	6.4	0.1	9	<10	10.3	56.1	8.75	9.2	0.209
1200	350S	17	0.05	1.19	>10000	<0.2	0.28	2.4	5.6	618	50	30	601	3.1	15.6	49	38.9	126	5.1	<0.1	7	<10	18.2	78.2	7.09	7.1	0.242
1200	400S	11	0.05	0.98	>10000	<0.2	0.21	2.1	5	663	50	10	499	2.88	13.5	44	34.6	161	5.1	0.1	7	<10	10.9	57.2	7.72	7.5	0.276
1200	450S	13	0.05	1.01	>10000	<0.2	0.17	2.7	6.4	733	50	20	574	2.97	16.2	50	38.3	121	5.5	0.1	8	<10	15.2	85.8	9.38	8.7	0.304
1200	500S	9	0.05	0.87	>10000	<0.2	0.18	1.1	5.2	783	50	10	358	2.77	13.2	41	27.5	88	4.9	0.1	4	<10	13.1	40	7.01	7.5	0.28
1200	550S	14	0.05	0.91	>10000	<0.2	0.17	2.3	4.8	683	40	<10	548	2.65	13.2	40	33	107	4.8	0.1	5	<10	18.1	72.4	7.22	7.6	0.321
1200	600S	34	0.07	1.34	>10000	<0.2	0.49	4.4	6.1	760	60	30	863	3.18	16.8	55	54.4	97	5.4	0.1	13	<10	18.3	102	8.87	7.5	0.339
1200	650S	13	0.05	1.09	>10000	<0.2	0.16	2	6	712	50	10	504	3.15	15.2	49	30.4	108	5.5	0.1	9	<10	10.7	57.9	8.68	8	0.261
1200	750S	9	0.05	0.99	>10000	<0.2	0.16	1.4	6.2	633	50	<10	439	2.94	16	48	32.8	73	5.7	<0.1	4	<10	9.15	43.8	10.3	6.8	0.216
1200	800S	15	0.04	1.02	>10000	<0.2	0.13	2.5	7.1	659	50	10	509	3.09	14.7	61	63.7	114	5.3	0.1	15	<10	11	58	13.1	9.7	0.258
1400	0S	11	0.06	0.88	>10000	<0.2	0.14	3	6.7	604	50	<10	1290	3.08	14.7	49	62.8	107	5.3	0.1	10	<10	12.8	112	14.7	12.5	0.283
1400	50S	11	0.05	0.86	>10000	<0.2	0.19	1.8	5	632	50	<10	428	2.76	15	39	26	147	4.9	0.1	7	<10	26.1	60	7.45	8.4	0.275
1400	100S	9	0.05	0.98	>10000	<0.2	0.16	1.7	4.9	651	50	<10	1210	3	16.7	40	26.9	119	5.6	0.1	5	<10	17.4	56.7	9.45	8.3	0.269
1400	150S	7	0.05	0.92	>10000	<0.2	0.12	1.4	5.7	771	60	10	808	3.29	19.8	43	28.7	96	6.2	<0.1	7	<10	13.8	56	9.06	9.7	0.329
1400	200S	9	0.05	0.95	>10000	<0.2	0.15	2.3	5.8	771	50	10	1200	3.12	16.9	51	46.6	120	5.8	<0.1	5	<10	16.2	80.1	11.3	9.5	0.333
1400	250S	10	0.06	1.08	>10000	<0.2	0.17	2.6	6.2	787	60	20	1200	3.45	17.4	50	31.7	135	6.1	0.1	11	<10	18.3	88	9.89	9.6	0.317

line	station	B_ppm	Na_%	Mg_%	Al_ppm	Si_%	K_%	Ca_%	Sc_ppm	Ti_ppm	V_ppm	Cr_ppm	Mn_ppm	Fe_%	Co_ppm	Ni_ppm	Cu_ppm	Zn_ppm	Ga_ppm	Ge_ppm	As_ppm	Se_ppm	Rb_ppm	Sr_ppm	Y_ppm	Zr_ppm	Nb_ppm
1400	300S	11	0.05	1.15	> 10000	<0.2	0.16	2.1	6.8	710	60	30	459	3.29	16.1	58	36.3	86	5.9	<0.1	11	<10	10.4	48.8	9.48	7.7	0.251
1400	350S	20	0.05	1.06	> 10000	<0.2	0.13	3.2	6.7	718	50	10	530	2.91	15.6	61	52.9	96	5.4	<0.1	9	<10	13.4	81	9.26	8.4	0.298
1400	400S	7	0.04	0.84	> 10000	<0.2	0.11	1.2	5.9	649	50	20	820	3.01	16.4	42	25.5	83	5.7	<0.1	8	<10	6.02	45.4	10.7	8	0.262
1400	450S	8	0.05	0.85	> 10000	<0.2	0.14	1.1	5.5	724	40	10	208	2.39	7.47	34	27.3	59	6.2	<0.1	<3	<10	9.61	44.5	8.63	10	0.301
1400	500S	12	0.04	0.91	> 10000	<0.2	0.12	2.3	5.9	566	50	10	1050	3.07	16.7	58	39.2	120	4.9	0.1	11	<10	9.26	74.1	9.23	8.3	0.191
1400	550S	10	0.05	0.76	> 10000	<0.2	0.21	1.7	5.4	534	50	20	200	3.03	13.6	42	29.8	83	5.1	<0.1	9	<10	10.3	55	8.17	6.4	0.246
1400	600S	11	0.06	1.08	> 10000	<0.2	0.19	2.4	6.1	641	50	20	541	2.99	15.5	46	33.6	141	5.3	<0.1	6	<10	15.5	74.4	7.47	8.6	0.204
1400	650S	16	0.05	1.08	> 10000	<0.2	0.16	4.1	6	608	50	20	466	2.71	11.1	47	44.9	111	5.1	0.1	10	<10	12.7	118	12.5	10.2	0.261
1400	700S	9	0.05	0.98	> 10000	<0.2	0.16	1.2	5.9	684	50	20	459	3.07	16.2	41	24.3	70	5.9	0.1	8	<10	16.7	43.4	8.69	9	0.288
1400	800S	23	0.05	0.96	> 10000	<0.2	0.18	3.4	6	709	50	20	360	2.87	15.4	46	40.7	107	5.2	0.1	8	<10	20.4	76.7	7.72	8.2	0.284
1600	0S	10	0.08	1.10	> 10000	<0.2	0.21	2.1	7.4	782	60	30	519	2.95	17.1	43	33.4	96	6.6	0.1	7	<10	18	62.4	9.21	10.4	0.315
1600	50S	11	0.06	0.86	> 10000	<0.2	0.16	2.9	6.1	690	50	10	457	2.76	13.1	40	35.7	87	5.7	0.1	6	<10	14.5	89.4	8.75	9	0.302
1600	100S	12	0.05	0.89	> 10000	<0.2	0.18	2.6	5.2	706	50	<10	481	2.55	13.8	40	30	117	4.9	<0.1	5	<10	17.5	79.1	7.38	8.6	0.32
1600	150S	8	0.05	0.85	> 10000	<0.2	0.17	1.8	5.6	724	50	10	284	2.86	15.4	39	24.9	74	5.6	<0.1	6	<10	14.3	56	8.52	8.3	0.314
1600	200S	10	0.05	1.04	> 10000	<0.2	0.16	2.3	5.9	732	50	10	576	3.08	14.4	49	49.2	111	5.4	0.1	10	<10	15.6	76.9	9.31	9.6	0.285
1600	250S	12	0.05	1.08	> 10000	<0.2	0.15	2.2	6.5	669	50	30	651	2.78	14.4	54	59.7	127	5.5	0.1	3	<10	14.3	71.6	11.8	9.4	0.22
1600	300S	13	0.05	1.10	> 10000	<0.2	0.15	2.9	7	672	60	30	2210	3.63	22.7	61	54.4	128	5.7	0.1	14	<10	11.9	83.7	13.5	11.8	0.236
1600	350S	10	0.05	0.98	> 10000	<0.2	0.16	2.7	6.4	660	50	10	1390	3.3	18.4	45	31.9	156	5.7	0.1	9	<10	14	87.9	10.9	10.2	0.262
1600	400S	9	0.05	0.89	> 10000	<0.2	0.14	2	5.2	708	50	30	570	3.02	18.3	39	26.7	81	5.7	0.1	9	<10	13.1	56.7	10	9.1	0.293
1600	450S	12	0.05	1.05	> 10000	<0.2	0.17	3.1	6.1	700	50	20	843	3.08	15.9	52	36.1	107	5.7	0.1	11	<10	18	106	11.3	10.2	0.313
1600	500S	12	0.06	1.01	> 10000	<0.2	0.22	1.9	6.1	697	60	20	825	3.16	16.1	51	34.4	93	5.7	<0.1	10	<10	19	61.2	8.49	8.2	0.231
1600	550S	25	0.08	1.47	> 10000	<0.2	0.29	2.5	9.8	697	80	40	872	3.71	21.7	81	53.4	141	6.6	0.1	13	<10	20.2	75.6	11.2	8.6	0.203
1600	600S	17	0.06	1.47	> 10000	<0.2	0.18	1.9	7.4	832	70	30	539	3.08	17	50	36.6	75	5.9	<0.1	3	<10	10.1	56.8	7.71	7.5	0.154
1600	650S	21	0.04	1.07	> 10000	<0.2	0.14	2.3	6.1	749	50	20	493	3	16	48	34.9	109	5.3	0.1	10	<10	11.8	68.7	7.86	8.5	0.244
1600	700S	17	0.05	1.11	> 10000	<0.2	0.22	1.8	6.3	711	60	20	709	3.21	16.7	53	36.1	69	5.6	0.1	9	<10	21.6	55	8.56	7.7	0.247
1600	800S	25	0.07	1.43	> 10000	<0.2	0.24	3.2	9.7	698	70	50	763	3.82	24.6	92	57	93	6.2	0.1	21	<10	18.9	81.5	10.1	8.6	0.237
0E	30S	27	0.05	1.28	> 10000	<0.2	0.18	4.6	6.9	738	60	30	797	3.29	16.4	57	50.3	77	5.6	0.1	13	<10	15.3	104	10.1	9.6	0.271
0E	15S	16	0.05	0.93	> 10000	<0.2	0.22	3.2	4.6	637	40	<10	383	2.61	11.7	43	37	118	4.7	<0.1	6	<10	16.9	55.2	6.94	7.2	0.259
0E		14	0.04	0.85	> 10000	<0.2	0.13	4.2	7.1	790	60	20	318	3.18	19.8	53	35.4	78	6	0.1	8	<10	11.2	98	11.3	8.8	0.376
0E	15N	9	0.04	0.70	> 10000	<0.2	0.13	1.9	5.1	657	50	<10	169	2.57	10.2	36	22.5	56	4.8	<0.1	7	<10	10.5	54.8	5.98	7.1	0.365
0E	30N	9	0.05	1.15	> 10000	<0.2	0.15	1.4	5.9	740	50	20	434	3.23	19	84	37	81	5.5	0.1	9	<10	7.67	39.1	9.27	8.8	0.273
0W	30S	10	0.05	1.08	> 10000	<0.2	0.15	1.7	7.1	875	60	30	516	3.04	16.4	49	41.3	79	5.4	0.1	5	<10	9.14	49.3	9.23	8.3	0.232
0W	15S	22	0.06	1.29	> 10000	<0.2	0.21	3.6	7.5	699	60	40	778	3.38	18.6	64	46.9	111	6.3	0.1	12	<10	14.3	107	9.91	9	0.266
0W		32	0.05	1.32	> 10000	<0.2	0.25	4.5	6.5	724	60	20	531	3.11	16.8	58	47.5	144	5.3	<0.1	10	<10	16.9	153	8.88	8.2	0.251
0W	15N	20	0.07	1.64	> 10000	<0.2	0.25	2.3	8.1	756	70	60	624	3.53	22.1	88	54.2	116	6.2	0.1	8	<10	12.1	56.1	9.92	8.6	0.211
0W	30N	18	0.05	1.27	> 10000	<0.2	0.21	2.1	6	684	50	20	543	3.18	15.7	55	43.9	117	5.5	0.1	8	<10	11.5	76.6	9.47	8.1	0.253

line	station	Mo_pp m	Ru_ppb	Pd_ppb	Ag_pp m	Cd_pp m	ln_ppb	Sn_ppm	Sb_ppm	Te_ppm	Cs_ppm	Ba_pp m	La_ppm	Ce_pp m	Pr_ppm	Nd_pp m	Sm_pp m	Eu_ppm	Gd_pp m	Tb_ppm	Dy_pp m	Ho_pp m	Er_ppm	Tm_pp m	Yb_ppm	Lu_ppm	Hf_ppm
1000	0S	3.3	<10	6	0.4	0.52	25	1	1.52	0.21	0.845	193	14.1	27	3.56	13.5	3.19	0.685	2.7	0.408	2.13	0.397	1.15	0.147	0.965	0.147	0.16
1000	50S	3.8	<10	<3	0.3	1.12	22	<1	1.39	0.06	0.686	93	10.4	20.5	2.41	9.05	2.11	0.445	1.79	0.268	1.42	0.263	0.733	0.093	0.611	0.091	0.13
1000	100S	4.4	<10	<3	0.3	1.05	21	<1	1.32	0.15	0.979	97	10.1	19.5	2.4	8.87	2.08	0.448	1.74	0.264	1.4	0.26	0.718	0.09	0.585	0.087	0.15
1000	150S	2.6	10	<3	0.3	1	24	<1	1.02	0.13	0.924	73	11	21.6	2.7	10.5	2.42	0.542	2.18	0.333	1.78	0.331	0.897	0.115	0.723	0.109	0.17
1000	200S	3.5	<10	<3	0.3	1.36	18	<1	1.15	0.1	1.06	189	9.75	19.2	2.34	8.94	2.05	0.446	1.79	0.271	1.41	0.26	0.727	0.093	0.586	0.091	0.14
1000	250S	2.7	<10	<3	0.3	0.49	27	<1	1.27	0.13	0.958	162	14	26.6	3.43	13.1	3.05	0.664	2.58	0.395	2.07	0.38	1.07	0.138	0.879	0.141	0.19
1000	300S	2.9	<10	<3	0.2	0.56	22	<1	1.31	0.03	0.708	98	9.93	19.4	2.44	8.97	2.06	0.449	1.73	0.269	1.43	0.261	0.73	0.095	0.594	0.092	0.15
1000	350S	3.6	<10	<3	0.2	0.56	24	<1	1.27	<0.1	0.729	63	10.4	20.6	2.55	9.35	2.24	0.491	1.96	0.297	1.56	0.286	0.796	0.104	0.639	0.099	0.16
1000	400S	3.8	20	<3	0.5	1.74	24	<1	1.52	0.1	2.6	179	12.4	24.5	3.12	11.7	2.67	0.587	2.31	0.358	1.84	0.345	0.979	0.123	0.776	0.121	0.15
1000	450S	2.6	<10	<3	0.3	1.38	26	<1	1.16	0.09	1.07	150	11.9	23.8	2.97	11.3	2.77	0.591	2.37	0.351	1.85	0.353	0.969	0.125	0.822	0.12	0.17
1000	500S	2.8	<10	<3	0.3	0.53	20	<1	1.1	0.08	0.857	53	8.64	17	2.11	7.91	1.85	0.395	1.55	0.243	1.29	0.235	0.661	0.085	0.529	0.079	0.12
1000	550S	2.4	<10	<3	0.2	0.35	20	<1	1.17	0.08	0.791	57	11.2	22	2.71	10.1	2.35	0.5	1.99	0.304	1.57	0.289	0.823	0.1	0.65	0.096	0.15
1000	600S	2.6	20	<3	0.5	0.82	27	<1	1.27	0.05	1.23	230	14.9	27.5	3.54	13.3	3.13	0.684	2.69	0.414	2.14	0.407	1.13	0.141	0.915	0.142	0.16
1000	650S	2.3	<10	<3	0.3	0.85	22	<1	1.22	0.14	0.817	195	8.69	17.5	2.11	7.69	1.79	0.397	1.57	0.241	1.25	0.233	0.639	0.086	0.56	0.085	0.16
1000	700S	2.7	<10	<3	0.3	0.76	26	<1	1.16	<0.1	1.43	153	10.9	22.4	2.74	10.5	2.56	0.582	2.2	0.343	1.81	0.338	0.948	0.124	0.799	0.12	0.18
1000	800S	1.2	20	<3	0.3	0.31	29	<1	0.95	0.07	0.887	179	11.3	22.6	2.97	11.8	2.96	0.704	2.59	0.415	2.22	0.422	1.19	0.152	0.946	0.146	0.17
1200	0S	3.4	10	<3	0.3	0.65	26	<1	1.49	0.05	0.946	90	12.1	24.2	2.9	11	2.57	0.557	2.18	0.331	1.7	0.317	0.877	0.115	0.721	0.11	0.16
1200	50S	6.4	10	<3	0.2	1.23	24	<1	1.73	0.04	1.38	79	12.5	24.1	2.98	11.1	2.6	0.575	2.2	0.334	1.69	0.319	0.894	0.114	0.749	0.111	0.16
1200	100S	2	10	<3	0.3	0.79	30	<1	0.83	0.07	0.946	73	8.32	17	2.18	8.85	2.38	0.636	2.13	0.348	1.93	0.353	0.974	0.124	0.774	0.118	0.13
1200	150S	3.4	10	<3	0.3	0.42	24	<1	1.34	0.09	0.971	127	9.19	18.4	2.34	8.61	2.12	0.494	1.78	0.283	1.49	0.281	0.779	0.098	0.655	0.098	0.16
1200	200S	3.2	10	<3	0.3	0.29	22	<1	1.11	0.09	0.982	202	12.4	24.4	3.05	11.6	2.65	0.588	2.21	0.341	1.74	0.327	0.922	0.117	0.774	0.117	0.18
1200	250S	1.1	20	<3	0.5	0.41	26	<1	0.68	0.09	0.871	110	10.3	19.7	2.67	10.4	2.65	0.682	2.34	0.373	2.03	0.39	1.07	0.14	0.892	0.136	0.2
1200	300S	1.9	20	<3	0.3	0.54	26	<1	1.03	0.03	0.961	118	9.68	18.8	2.49	9.74	2.39	0.597	2.03	0.321	1.73	0.333	0.912	0.12	0.78	0.121	0.19
1200	350S	3.3	<10	<3	0.4	0.72	21	<1	1.36	0.1	1.14	118	9.92	19.7	2.36	9.05	2.11	0.457	1.83	0.282	1.5	0.283	0.775	0.099	0.637	0.093	0.14
1200	400S	3.3	<10	<3	0.3	2	23	<1	1.45	0.1	1.04	113	11.1	22	2.72	10.2	2.33	0.489	2.01	0.312	1.6	0.302	0.854	0.105	0.653	0.1	0.15
1200	450S	3.1	<10	<3	0.3	1.68	26	<1	1.31	0.06	1.1	149	12.3	23.2	3.03	11.4	2.7	0.616	2.35	0.365	1.91	0.357	0.997	0.128	0.838	0.129	0.18
1200	500S	2.8	<10	<3	0.3	1.26	22	<1	1.2	<0.01	0.917	59	10.1	19.7	2.39	8.9	2.07	0.47	1.8	0.272	1.43	0.262	0.753	0.099	0.622	0.093	0.15
1200	550S	3.5	<10	<3	0.3	2.12	22	<1	2.12	0.13	1.26	104	11.2	21.9	2.68	9.73	2.23	0.477	1.94	0.293	1.49	0.277	0.762	0.101	0.643	0.096	0.15
1200	600S	4.8	<10	<3	0.4	1.61	23	<1	1.61	0.09	1.7	106	11.7	23.4	2.89	11	2.62	0.568	2.25	0.345	1.81	0.335	0.939	0.119	0.76	0.115	0.14
1200	650S	3.5	20	<3	0.2	0.58	27	<1	1.6	0.03	1.18	120	12.6	24.9	3.11	11.8	2.72	0.587	2.32	0.354	1.86	0.339	0.971	0.125	0.766	0.12	0.17
1200	750S	1.9	<10	<3	0.2	0.29	27	<1	1.17	0.05	0.869	154	12.7	23.1	3.08	11.7	2.76	0.647	2.44	0.378	2.02	0.378	1.03	0.134	0.854	0.126	0.15
1200	800S	3.1	<10	<3	0.3	0.67	26	<1	1.71	0.07	1.16	194	14.1	24.7	3.48	13	3.28	0.781	2.92	0.47	2.44	0.479	1.32	0.167	1.06	0.167	0.21
1400	0S	4.3	10	<3	0.4	0.73	30	<1	1.79	0.18	1.17	275	18	33.8	4.56	17.4	4.08	0.926	3.55	0.551	2.98	0.564	1.53	0.205	1.34	0.21	0.25
1400	50S	4.3	10	<3	0.3	0.87	26	<1	1.61	0.1	1.6	163	11.5	22	2.63	9.8	2.3	0.496	2	0.311	1.6	0.268	0.788	0.103	0.646	0.102	0.17
1400	100S	4.6	<10	<3	0.3	1.17	28	<1	1.35	<0.01	1.26	144	13.7	29.2	3.42	12.9	3.04	0.614	2.51	0.39	1.98	0.374	1.06	0.131	0.814	0.122	0.16
1400	150S	4.3	10	<3	0.3	0.39	32	<1	1.38	0.07	1.21	179	13.7	27.4	3.47	13.2	3.02	0.633	2.44	0.382	1.95	0.367	1.01	0.131	0.84	0.125	0.21
1400	200S	3.8	10	<3	0.3	0.92	29	<1	1.59	0.11	1.3	240	15.7	30.6	3.82	14.5	3.43	0.737	2.91	0.435	2.22	0.421	1.19	0.15	0.953	0.146	0.19
1400	250S	3.8	20	<3	0.3	0.56	31	<1	1.66	0.09	1.37	275	14.5	27.9	3.45	12.8	2.97	0.643	2.58	0.396	2	0.374	1.06	0.138			

line	station	Mo_pp m	Ru_ppb	Pd_ppb	Ag_pp m	Cd_pp m	In_ppb	Sn_ppm	Sb_ppm	Te_ppm	Cs_ppm	Ba_pp m	La_ppm	Ce_pp m	Pr_ppm	Nd_pp m	Sm_pp m	Eu_ppm	Gd_pp m	Tb_ppm	Dy_pp m	Ho_pp m	Er_ppm	Tm_pp m	Yb_ppm	Lu_ppm	Hf_ppm
1400	300S	3.7	20	<3	0.3	0.9	26	<1	1.59	<0.01	1.15	127	12.3	23.5	3	11.5	2.75	0.59	2.28	0.365	1.95	0.366	1	0.124	0.804	0.122	0.16
1400	350S	3.8	<10	<3	0.3	0.71	28	<1	1.72	0.02	1.44	181	12	22.6	2.93	10.8	2.63	0.601	2.26	0.357	1.91	0.341	0.966	0.127	0.797	0.129	0.17
1400	400S	3.9	<10	<3	0.2	0.91	29	<1	1.3	0.95	0.753	216	14.3	27.9	3.58	13.6	3.2	0.708	2.72	0.414	2.22	0.408	1.14	0.149	0.92	0.142	0.17
1400	450S	2.5	<10	<3	0.3	0.19	26	<1	1.08	0.02	1.2	161	13.2	24.7	3.13	11.9	2.72	0.595	2.33	0.334	1.74	0.332	0.894	0.117	0.781	0.115	0.22
1400	500S	2.7	10	<3	0.3	0.91	24	<1	1.43	0.09	0.796	330	11.9	24.6	3.01	11.4	2.79	0.618	2.42	0.378	1.92	0.361	1.01	0.131	0.832	0.13	0.18
1400	550S	4.4	<10	<3	<0.2	1.53	28	<1	1.78	<0.01	0.799	140	12.1	22.9	2.84	10.7	2.48	0.545	2.08	0.316	1.64	0.304	0.846	0.112	0.759	0.114	0.09
1400	600S	3	<10	<3	0.3	1.87	23	<1	1.05	0.05	1.24	118	9.27	19	2.4	9.24	2.23	0.494	1.88	0.292	1.55	0.287	0.785	0.109	0.687	0.105	0.19
1400	650S	2.4	<10	<3	0.3	1.18	27	<1	1.32	0.06	1.26	186	15.6	28.1	3.89	15.2	3.59	0.777	3.06	0.47	2.47	0.463	1.31	0.163	1.06	0.167	0.19
1400	700S	2.9	10	<3	0.2	0.26	26	<1	1.2	0.09	1.16	109	12.3	23.7	2.97	10.9	2.52	0.579	2.24	0.338	1.75	0.33	0.929	0.118	0.726	0.115	0.19
1400	800S	3.2	10	<3	0.3	0.47	23	<1	1.45	0.07	2.18	154	10.2	19.2	2.45	9.35	2.31	0.517	1.96	0.3	1.54	0.294	0.815	0.11	0.709	0.111	0.17
1600	0S	3.4	<10	<3	0.3	0.86	29	<1	1.29	0.06	1.59	120	13.3	25.9	3.25	12	2.89	0.664	2.46	0.379	1.97	0.361	0.997	0.125	0.821	0.124	0.22
1600	50S	3.3	<10	<3	0.3	0.52	27	<1	1.44	0.1	1.16	161	12.4	23.1	2.93	11	2.61	0.579	2.23	0.334	1.71	0.325	0.911	0.118	0.755	0.113	0.18
1600	100S	3.4	10	<3	0.2	1.11	25	<1	1.44	0.04	1.32	159	11.1	21.4	2.7	10	2.3	0.495	1.94	0.296	1.52	0.29	0.808	0.102	0.668	0.103	0.18
1600	150S	4.3	20	<3	0.2	0.61	27	<1	1.61	0.02	1.09	81	13	25.2	3.15	11.9	2.79	0.585	2.33	0.36	1.84	0.341	0.92	0.122	0.775	0.117	0.18
1600	200S	3.6	20	<3	0.3	0.65	27	<1	1.58	0.04	1.24	153	12.6	25.5	3.17	12.2	2.82	0.613	2.41	0.368	1.93	0.351	0.992	0.127	0.82	0.123	0.2
1600	250S	2.2	10	<3	0.3	1.09	26	<1	1.09	0.04	1.09	182	14.4	24	3.56	13.6	3.19	0.743	2.78	0.423	2.27	0.428	1.18	0.157	0.993	0.158	0.19
1600	300S	4	10	<3	0.4	0.78	29	<1	1.58	<0.01	1.2	225	16.3	29.1	4	15.3	3.74	0.841	3.25	0.492	2.66	0.497	1.43	0.179	1.14	0.182	0.23
1600	350S	5	<10	<3	0.3	0.68	30	<1	1.49	0.05	1.18	221	14.3	27.1	3.47	13.3	3.15	0.694	2.73	0.412	2.22	0.392	1.12	0.15	0.944	0.15	0.2
1600	400S	3.5	<10	<3	0.3	0.38	30	<1	1.47	0.74	1.29	207	14.9	28.5	3.54	13.5	3.05	0.653	2.64	0.394	2.02	0.373	1.02	0.132	0.86	0.128	0.2
1600	450S	3.3	<10	<3	0.5	0.56	29	<1	1.48	0.1	1.47	292	15.2	28.9	3.71	13.7	3.24	0.71	2.72	0.427	2.22	0.398	1.16	0.15	0.991	0.153	0.2
1600	500S	3.9	10	<3	0.5	0.72	28	<1	1.48	0.01	1.3	328	12.3	24.5	2.99	11.1	2.66	0.546	2.15	0.344	1.76	0.33	0.924	0.112	0.738	0.113	0.16
1600	550S	2.3	<10	<3	0.3	0.67	31	<1	1.35	0.07	1.7	252	11.3	22.1	2.93	11.6	2.96	0.758	2.67	0.415	2.23	0.411	1.13	0.146	0.948	0.146	0.18
1600	600S	1.4	10	<3	0.2	0.69	23	<1	0.7	<0.01	0.925	116	8.16	17.5	2.12	8.43	2.07	0.479	1.84	0.298	1.6	0.291	0.795	0.107	0.673	0.102	0.17
1600	650S	3.6	20	<3	0.3	0.43	25	<1	1.49	<0.01	0.911	129	10.7	20.9	2.61	9.98	2.37	0.541	2.03	0.313	1.72	0.31	0.839	0.111	0.728	0.109	0.18
1600	700S	3.7	<10	<3	0.3	0.34	26	<1	1.43	0.03	1.4	146	10.5	21.2	2.64	10.3	2.49	0.575	2.17	0.328	1.76	0.333	0.914	0.12	0.745	0.114	0.16
1600	800S	3.2	10	<3	0.5	0.92	31	<1	1.76	0.08	1.85	190	11.3	22.4	2.85	11	2.84	0.673	2.44	0.39	2.09	0.378	1.04	0.132	0.866	0.135	0.18
0E	30S	5	10	<3	0.3	0.67	28	<1	1.58	0.07	1.58	141	13.1	25.4	3.28	12.7	3.02	0.653	2.53	0.396	2.11	0.389	1.08	0.138	0.889	0.135	0.18
0E	15S	4.4	10	<3	0.3	4.02	32	<1	1.49	<0.01	1.49	90	10.3	20.2	2.5	9.57	2.17	0.47	1.88	0.275	1.48	0.266	0.751	0.097	0.621	0.091	0.15
0E		4.1	20	<3	0.3	1.29	29	<1	1.71	0.06	1.28	108	15	28.6	3.7	14	3.28	0.726	2.83	0.436	2.3	0.434	1.18	0.153	0.971	0.148	0.19
0E	15N	3.6	<10	<3	0.2	0.69	23	<1	1.44	0.06	0.961	81	9.62	18.9	2.32	8.51	1.94	0.439	1.64	0.253	1.32	0.24	0.672	0.087	0.556	0.086	0.16
0E	30N	3.4	10	<3	0.3	0.59	27	<1	1.59	0.09	0.919	86	12.8	25	3.13	11.6	2.81	0.615	2.41	0.367	1.92	0.362	0.999	0.124	0.782	0.123	0.18
0W	30S	1.8	10	<3	0.2	0.75	26	<1	0.9	0.02	0.745	104	10.5	21.7	2.71	10.6	2.51	0.559	2.22	0.349	1.87	0.352	0.968	0.131	0.766	0.12	0.18
0W	15S	3.3	<10	<3	0.3	0.83	28	<1	1.42	0.06	2.32	216	12.5	24.8	3.05	11.9	2.89	0.682	2.44	0.382	2.01	0.375	1.03	0.135	0.857	0.135	0.2
0W		3.9	<10	<3	0.4	2.11	26	<1	1.58	0.07	1.51	236	11	22.3	2.81	10.7	2.59	0.582	2.19	0.351	1.85	0.35	0.959	0.126	0.809	0.124	0.17
0W	15N	2.8	10	<3	0.4	1.75	28	<1	1.24	0.07	1.19	101	11.2	21.6	2.82	11.2	2.68	0.645	2.48	0.387	2.04	0.387	1.06	0.138	0.876	0.13	0.19
0W	30N	3.4	<10	<3	0.3	1.3	25	<1	1.56	0.1	0.933	108	12	22.5	2.95	11.5	2.81	0.607	2.35	0.363	1.91	0.364	1	0.125	0.806	0.122	0.17



line												
	station	Ta_ppm	W_ppm	Re_ppb	Pt_ppb	Au_ppb	Tl_ppm	Pb_ppm	Bi_ppm	Th_ppm	U_ppm	AshYield_%
1000	0S	0.005	0.7	1.4	<2	<5	0.143	8.8	0.2	3.57	1.34	59.4
1000	50S	0.003	<0.5	0.4	<2	<5	0.153	7.8	0.16	3.07	1.07	56.8
1000	100S	0.006	<0.5	0.4	<2	<5	0.169	7.3	0.14	2.89	1.05	58.1
1000	150S	0.005	<0.5	0.8	<2	<5	0.168	9.7	0.13	3.26	1.07	63.4
1000	200S	0.003	<0.5	0.8	<2	<5	0.18	8.9	0.14	2.45	0.949	48.9
1000	250S	0.005	<0.5	0.4	<2	<5	0.151	8.4	0.17	3.81	1.27	67.9
1000	300S	0.001	<0.5	0.5	<2	<5	0.171	7.8	0.13	3.31	0.873	63.3
1000	350S	0.003	<0.5	0.6	<2	<5	0.148	7.8	0.17	3.14	0.9	65.9
1000	400S	0.003	<0.5	0.8	<2	<5	0.187	8.7	0.14	3.29	1.08	51.3
1000	450S	0.004	<0.5	0.4	<2	<5	0.191	12.7	0.15	3.29	0.81	83.1
1000	500S	0.002	<0.5	1	<2	<5	0.171	6	0.15	2.57	0.849	41.5
1000	550S	0.006	<0.5	0.3	<2	<5	0.102	8	0.15	3	1.12	61.8
1000	600S	0.006	<0.5	0.9	<2	<5	0.194	8.5	0.14	3.56	1.28	50.6
1000	650S	0.011	<0.5	1.5	<2	<5	0.179	7.3	0.14	3.31	1.41	53
1000	700S	0.005	<0.5	1.4	<2	<5	0.202	8	0.12	3.07	1.05	60.8
1000	800S	0.004	<0.5	1	<2	<5	0.115	8.1	0.12	3.02	0.914	67.3
1200	0S	0.004	<0.5	0.5	<2	<5	0.204	9.2	0.16	3.59	1.26	60.3
1200	50S	0.006	<0.5	1.1	<2	<5	0.23	20.5	0.16	3.39	1.32	37.5
1200	100S	0.001	<0.5	1.3	<2	<5	0.107	7.6	0.1	1.88	0.604	69
1200	150S	0.006	<0.5	0.5	<2	<5	0.19	7.1	0.16	2.8	1.05	41.2
1200	200S	0.008	<0.5	1	<2	<5	0.238	7.9	0.12	3.04	1.24	57
1200	250S	0.006	<0.5	0.4	<2	<5	0.158	7.3	0.11	2.58	0.846	62.7
1200	300S	0.006	<0.5	1.3	<2	<5	0.182	7.2	0.11	2.53	0.896	62.6
1200	350S	0.003	<0.5	0.5	<2	<5	0.158	9.6	0.13	2.87	1.15	52.4
1200	400S	0.004	<0.5	5.5	<2	<5	0.192	8.5	0.18	3.48	1.68	38.3
1200	450S	0.005	<0.5	1	<2	<5	0.204	8.3	0.13	3.51	1.22	49.7
1200	500S	0.002	<0.5	1	<2	89	0.142	7.3	0.13	2.81	0.938	60.1
1200	550S	0.004	<0.5	1.3	<2	<5	0.215	8.6	0.14	3.81	1.47	38.2
1200	600S	0.004	<0.5	1.5	<2	<5	0.165	11.5	0.14	3.26	1.33	28.1
1200	650S	0.003	<0.5	1.2	<2	<5	0.195	9.9	0.16	3.73	1.56	44.8
1200	750S	0.005	<0.5	1.1	<2	<5	0.175	8.2	0.16	3.68	1.21	59.6
1200	800S	0.006	<0.5	0.9	<2	<5	0.22	7.9	0.17	3.68	1.52	51.5
1400	0S	0.009	<0.5	2.1	<2	<5	0.284	6.9	0.15	3.58	1.91	49.9
1400	50S	0.005	<0.5	0.8	<2	<5	0.215	7.6	0.17	3.13	1.28	45.4
1400	100S	0.004	<0.5	0.5	<2	<5	0.272	8.9	0.16	3.33	1.46	50.4
1400	150S	0.005	<0.5	0.7	<2	<5	0.21	9.9	0.17	3.88	1.51	64.4
1400	200S	0.006	<0.5	0.7	<2	<5	0.265	8.2	0.17	3.75	1.52	54.9
1400	250S	0.006	<0.5	1.2	<2	<5	0.249	8.1	0.18	4.15	1.48	51.5

line	station	Ta_ppm	W_ppm	Re_ppb	Pt_ppb	Au_ppb	Tl_ppm	Pb_ppm	Bi_ppm	Th_ppm	U_ppm	AshYield_%
1400												
	300S	0.003	<0.5	1	<2	<5	0.191	8.8	0.14	3.54	1.13	58.2
1400												
	350S	0.004	<0.5	0.7	<2	<5	0.215	7.9	0.13	3.35	1.19	38
1400												
	400S	0.005	<0.5	0.6	6	<5	0.161	8.1	0.16	3.65	1.35	64.3
1400												
	450S	0.007	<0.5	0.4	<2	<5	0.235	7	0.15	3.35	1.42	65.5
1400												
	500S	0.002	0.7	0.2	<2	<5	0.141	7.6	0.14	3.45	1.12	64.9
1400												
	550S	0.006	<0.5	0.8	<2	<5	0.197	8.4	0.18	3.48	1.5	32.8
1400												
	600S	0.006	<0.5	1.1	<2	<5	0.196	7.1	0.13	2.69	0.94	48.4
1400												
	650S	0.006	<0.5	0.7	<2	<5	0.213	7.2	0.15	3.63	1.34	40.1
1400												
	700S	0.006	<0.5	0.7	14	<5	0.198	7.6	0.15	3.22	1.13	68.8
1400												
	800S	0.007	<0.5	1.1	4	<5	0.216	9.6	0.14	3.36	1.28	42.9
1600												
	0S	0.01	<0.5	0.7	<2	<5	0.254	8.1	0.18	3.36	1.39	46.5
1600												
	50S	0.01	<0.5	1.6	<2	<5	0.226	7.8	0.16	3.2	1.25	48
1600												
	100S	0.005	<0.5	0.7	<2	<5	0.216	7.9	0.14	3.06	1.23	41.5
1600												
	150S	0.006	<0.5	1.6	<2	236	0.201	8.6	0.18	3.66	1.31	44.4
1600												
	200S	0.004	<0.5	1.8	<2	<5	0.199	8.1	0.16	3.49	1.21	50
1600												
	250S	0.004	<0.5	2	<2	<5	0.237	228	0.13	3.02	1.02	50.7
1600												
	300S	0.005	<0.5	7.2	<2	<5	0.257	7.8	0.17	3.61	1.46	57.2
1600												
	350S	0.006	<0.5	1.7	<2	<5	0.221	11.6	0.18	3.64	1.53	54.2
1600												
	400S	0.007	<0.5	0.6	<2	<5	0.237	8.1	0.17	3.76	1.39	43.7
1600												
	450S	0.008	<0.5	0.9	<2	<5	0.283	7.7	0.16	4.04	1.45	43.5
1600												
	500S	0.002	<0.5	1.4	<2	<5	0.209	8.1	0.16	3.34	1.08	56.4
1600												
	550S	0.003	<0.5	0.4	<2	<5	0.193	8.1	0.13	2.59	0.817	52
1600												
	600S	0.002	<0.5	2	<2	<5	0.139	5.7	0.09	2.16	0.996	58.8
1600												
	650S	0.004	<0.5	0.5	<2	<5	0.164	9.2	0.14	3.28	1.32	43
1600												
	700S	0.005	<0.5	0.3	<2	<5	0.184	7.6	0.14	2.84	1.08	61.1
1600												
	800S	0.005	<0.5	1.7	<2	<5	0.179	8.2	0.13	2.9	1.17	50.2
0E												
	30S	0.003	<0.5	1.8	<2	<5	0.195	7.8	0.14	3.55	1.88	38.5
0E												
	15S	0.003	<0.5	0.7	<2	<5	0.276	8.3	0.18	3.18	0.97	34.9
0E												
		0.011	<0.5	0.8	<2	<5	0.179	8.6	0.23	3.89	1.52	47.1
0E												
	15N	0.008	<0.5	0.5	<2	<5	0.183	6.5	0.14	3.48	1.27	46.5
0E												
	30N	0.004	<0.5	0.9	<2	25	0.151	8.5	0.16	3.73	1.31	69.6
0W												
	30S	0.002	<0.5	0.9	<2	<5	0.147	7	0.11	2.78	0.814	84.8
0W												
	15S	0.003	<0.5	1	<2	<5	0.165	9.5	0.16	3.61	0.973	51.8
0W												
		0.003	<0.5	1.3	<2	<5	0.155	8.1	0.12	2.85	1.09	44.5
0W												
	15N	0.003	<0.5	1.4	<2	<5	0.155	8.3	0.11	2.45	0.879	71.1
0W	30N	0.003	<0.5	1.2	<2	<5	0.186	8.5	0.14	3.48	1.17	46.7