APPENDIX B

HALIDE AND CHLORINE-36 ANALYSES OF ESF ROCK SAMPLES, SORTED BY ESF STATION

Sample ID	SMF Barcode	Approx ESF Station[3]	Sampled feature	Description of analyzed aliquot	Leached halides mg CL per kg	µg Br per kg	Br/Cl x 10^{-3}	% of Cl derived from constr. water[1] (±1s.d.)		^{36}Cl/Cl x 10^{-15} (±1s.d.)[2]		% err
E001-1	507923	1+98	Fault zone	Representative bulk material	1.95	554	284	9	2	518 ±	20	4
E243-1	509751	2+00	Fault zone	Breccia	4.42	49	11	0	0	381 ±	16	4
E008-2	509016	2+00	Fault zone	Breccia	2.62	24	9	0	0	2132 ±	139	7
E009-2	509017	2+00	Fault zone	Breccia	1.96	15	8	0	0	2452 ±	169	7
E010-2	509018	2+00	Fault zone	Breccia	2.29	22	9	0	0	722 ±	51	7
E011-2	509019	2+00	Fault zone	Breccia	2.02	19	9	0	0	2424 ±	160	7
E012-2	509020	2+00	Fault zone	Breccia	2.12	19	9	0	0	2382 ±	157	7
E007-2	507924	2+03	Fault zone	Representative bulk material	3.42	221	65	2	0	519 ±	13	3
163-3	512551	4+94	Systematic	Representative bulk material	2.35	126	54	1	0	485 ±	12	2
E073-1	504280	5+04	Fracture	Breccia	5.63	364	65	2	0	468 ±	19	4
E074-1	503866	5+05	Fracture	Breccia	11.82	858	73	2	0	493 ±	17	4
E164-3	512550	7+00	Systematic	Representative bulk material	0.61	13	21	0	0	571 ±	35	6
E229-1	510702	Alcove 3 (7+54)	Intact bedrock	Representative bulk material	3.41	76	22	0	0	558 ±	19	3
E165-3	512549	7+70	Subunit contact	Representative bulk material	2.94	22	8	0	0	496 ±	14	3
E166-3	512548	7+70	Subunit contact	Representative bulk material	12.15	109	9	0	0	484 ±	15	3
E167-3	512547	7+70	Subunit contact	Representative bulk material	24.13	218	9	0	0	427 ±	13	3
E188-2	515100	8+26	Subunit contact	Representative bulk material	2.24	66	29	1	0	766 ±	24	3
E189-2	515101	8+26	Subunit contact	Representative bulk material	4.28	92	22	0	0	625 ±	17	3
E190-2	515102	8+26	Subunit contact	Representative bulk material	6.33	110	17	0	0	647 ±	14	2
E244-1	515135	8+38	Fault	Representative bulk material	1.49	443	297	10	2	488 ±	17	3
E245-1	515136	8+44	Fracture	Representative bulk material	1.71	295	173	5	1	530 ±	21	4
E168-3	512546	8+59	Subunit contact	Representative bulk material	0.80	72	89	3	1	802 ±	29	4

APPENDIX B (continued)

HALIDE AND CHLORINE-36 ANALYSES OF ESF ROCK SAMPLES, SORTED BY ESF STATION

Sample ID	SMF Barcode	Approx ESF Station[3]	Sampled feature	Description of analyzed aliquot	Leached halides mg CL per kg	µg Br per kg	Br/Cl x 10^{-3}	% of Cl derived from constr. water[1] (±1s.d.)		^{36}Cl/Cl x 10^{-15} (±1s.d.)[2]		% err
E169-3	512545	8+59	Subunit contact	Representative bulk material	0.50	32	65	2	0	1093 ±	40	4
E170-3	512544	8+59	Subunit contact	Representative bulk material	1.11	38	34	1	0	635 ±	23	4
E246-1	515137	8+66	Fault	Representative bulk material	0.79	40	50	1	0	475 ±	17	4
E191-2	515104	8+75	Subunit contact	Representative bulk material	0.86	99	115	4	1	904 ±	28	3
E192-2	515105	8+75	Subunit contact	Representative bulk material	0.81	141	174	6	1	698 ±	20	3
E193-2	515106	8+75	Subunit contact	Representative bulk material	1.54	33	21	0	0	748 ±	21	3
E171-1	512554	8+90	Subunit contact	Representative bulk material	0.68	64	94	3	1	1335 ±	56	4
E172-3	512553	8+90	Subunit contact	Representative bulk material	0.57	45	79	2	1	637 ±	26	4
E173-3	512552	8+90	Subunit contact	Representative bulk material	0.70	51	73	2	0	806 ±	33	4
E174-3	512543	9+00	Systematic	Representative bulk material	0.61	87	143	4	1	660 ±	29	4
E247-1	515138	9+32	Fault	Representative bulk material	0.55	176	321	10	2	508 ±	22	4
E210-2	515109	Alcove 4 (10+28)	Subunit contact	Representative bulk material	4.26	67	16	0	0	712 ±	31	4
E211-2	515107	Alcove 4 (10+28)	Subunit contact	Representative bulk material	2.06	31	15	0	0	810 ±	24	3
E212-2	515108	Alcove 4 (10+28)	Subunit contact	Representative bulk material	2.94	60	20	0	0	815 ±	18	2
E126-1	509155	10+34	Fault zone	Representative bulk material	0.76	328	431	14	3	633 ±	41	6
E128-1	509147	10+40	Fault zone	Representative bulk material	1.53	28	18	0	0	662 ±	27	4
E130-1	509150	10+41	Fault zone	Representative bulk material	0.70	119	170	5	1	773 ±	40	5
E194-2	512586	10+56	Subunit contact	Representative bulk material	0.69	65	94	3	1	1354 ±	45	3
E195-2	512587	10+56	Subunit contact	Representative bulk material	0.81	123	152	5	1	1292 ±	37	3

APPENDIX B (continued)

HALIDE AND CHLORINE-36 ANALYSES OF ESF ROCK SAMPLES, SORTED BY ESF STATION

Sample ID	SMF Barcode	Approx ESF Station[3]	Sampled feature	Description of analyzed aliquot	Leached halides mg CL per kg	µg Br per kg	Br/Cl x 10^{-3}	% of Cl derived from constr. water[1] (±1s.d.)		^{36}Cl/Cl x 10^{-15} (±1s.d.)[2]		% err
E196-2	512588	10+56	Subunit contact	Representative bulk material	0.39	33	85	3	1	1202 ±	27	2
E197-2	512585	10+62	Subunit contact	Representative bulk material	0.11	21	191	6	1	1452 ±	72	5
E248-1	515139	10+75	Fault	Representative bulk material	0.50	415	831	27	6	570 ±	37	6
E249-1	515142	11+00	Systematic	Representative bulk material	0.46	375	815	27	6	657 ±	37	6
E086-1	510583	11+43	Bedrock	Representative bulk material	0.73	175	239	8	2	640 ±	29	5
E250-1	515140	11+43	Fault	Representative bulk material	0.41	323	788	26	6	532 ±	35	6
E251-1	515141	11+78	Fault	Representative bulk material	0.50	28	57	2	0	633 ±	38	6
E213-1	510792	12+36	Fracture	Representative bulk material	0.33	323	980	32	7	719 ±	68	9
E214-1	510790	12+44	Cooling joints	Representative bulk material	0.45	104	231	7	2	750 ±	28	4
E028-1	503934	12+44	Cooling joints	Representative bulk material	0.21	15	71	2	0	2632 ±	106	4
E215-1	510791	12+49	Cooling joints	Representative bulk material	0.38	105	275	9	2	638 ±	21	3
E029-1	503932	13+00	Systematic	Representative bulk material	0.60	10	17	0	0	640 ±	28	4
E030-1	503931	13+67	Cooling joints	Breccia	1.00	261	261	8	2	698 ±	35	5
E030-2	503931	13+67	Cooling joints	Large rock fragments	0.59	303	514	17	4	1613 ±	82	5
E031-1	503930	14+00	Shear zone	Large rock fragments (>~1 cm)	0.58	30	52	1	0	1039 ±	35	3
E031-3	503930	14+00	Shear zone	Small rock fragments (<~1 cm)	0.69	28	40	1	0	2399 ±	191	8
E032-2	503929	14+14	Shear zone	Representative bulk material	0.77	35	45	1	0	680 ±	4	1
E033-1	503928	14+41	Fault	Breccia	0.33	49	149	5	1	876 ±	42	5
E034-1	503926	15+00	Systematic	Representative bulk material	0.31	33	107	3	1	954 ±	51	5
E035-1	503925	15+05	Fracture	Breccia	0.99	1376	1390	46	10	628 ±	61	10

APPENDIX B (continued)

HALIDE AND CHLORINE-36 ANALYSES OF ESF ROCK SAMPLES, SORTED BY ESF STATION

Sample ID	SMF Barcode	Approx ESF Station[3]	Sampled feature	Description of analyzed aliquot	Leached halides mg CL per kg	µg Br per kg	Br/Cl x 10^{-3}	% of Cl derived from constr. water[1] (±1s.d.)		^{36}Cl/Cl x 10^{-15} (±1s.d.)[2]		% err
E036-1	509242	16+12	Cooling joint	Representative bulk material	1.36	544	400	13	3	382 ±	57	15
E037-2	509241	16+19	Fracture	Breccia	0.51	81	160	5	1	982 ±	42	4
E038-1	503924	17+00	Systematic	Representative bulk material	0.39	35	89	3	1	716 ±	38	5
E040-1	503922	18+96	Broken rock	Representative bulk material	0.59	172	291	9	2	1642 ±	59	4
E041-1	503921	19+00	Systematic	Representative bulk material	0.63	237	376	12	3	746 ±	27	4
E042-2	503920	19+31	Breccia (coarse)	Breccia (>~0.5 cm)	0.60	88	147	5	1	3023 ±	94	3
E042-3	503920	19+31	Breccia (fine)	Breccia (<~0.5 cm)	0.61	63	104	3	1	1838 ±	65	4
E043-2	503919	19+37	Fault zone	Representative bulk material	0.77	68	88	3	1	1144 ±	36	3
E044-2	503918	19+42	Breccia zone	Representative bulk material	0.56	155	277	9	2	2290 ±	74	3
E216-1	510788	20+71	Broken rock	Representative bulk material	1.27	438	345	11	2	841 ±	35	4
E045-1	503917	21+00	Systematic	Representative bulk material	0.59	137	233	7	2	799 ±	29	4
E046-1	503916	22+71	Fracture zone	Representative bulk material	0.98	568	580	19	4	863 ±	44	5
E046-4	503916	22+71	Fracture zone	Representative bulk material	1.05	292	278	9	2	458 ±	24	5
E047-1	509247	23+00	Systematic	Representative bulk material	0.81	84	103	3	1	663 ±	37	6
E050-2	509240	24+40	Fault zone	Breccia	0.41	74	181	6	1	2579 ±	94	4
E020-1	509220	24+68	Fracture	Representative bulk material	0.55	486	884	29	6	814 ±	56	7
E051-1	509259	25+00	Systematic	Representative bulk material	0.53	270	509	17	4	1003 ±	49	5
E217-1	510716	26+19	Cooling joints	Representative bulk material	0.66	57	87	3	1	522 ±	21	4
E218-1	510714	26+36	Fracture	Representative bulk material	1.18	164	139	4	1	603 ±	20	3
E219-1	510713	26+46	Fracture	Representative bulk material	0.42	144	343	11	2	578 ±	38	7
E052-1	509244	26+79	Shear zone	Representative	0.44	138	313	10	2	2036 ±	68	3

APPENDIX B (continued)

HALIDE AND CHLORINE-36 ANALYSES OF ESF ROCK SAMPLES, SORTED BY ESF STATION

Sample ID	SMF Barcode	Approx ESF Station[3]	Sampled feature	Description of analyzed aliquot	Leached halides mg CL per kg	µg Br per kg	Br/Cl x 10^{-3}	% of Cl derived from constr. water[1] (±1s.d.)		^{36}Cl/Cl x 10^{-15} (±1s.d.)[2]		% err
				bulk material								
E220-1	510719	26+79	Fracture	Representative bulk material	1.36	786	578	19	4	565 ±	24	4
E054-1	509257	27+00	Systematic	Representative bulk material	0.42	30	72	2	0	973 ±	29	3
E056-1	509243	27+18	Fault	Representative bulk material	0.39	17	44	1	0	1709 ±	53	3
E057-2	509238	27+50	Fracture	Breccia	1.30	282	217	7	1	779 ±	23	3
E058-2	509237	27+66	Fault	Breccia	1.44	22	15	0	0	458 ±	19	4
E059-2	509236	28+40	Fault	Breccia	2.08	128	62	2	0	521 ±	21	4
E141-1	503947	29+00	Systematic	Representative bulk material	0.43	70	162	5	1	922 ±	36	4
E142-1	503983	29+21	Fracture	Representative bulk material	0.54	446	826	27	6	583 ±	28	5
E143-1	503948	29+65	Fault	Representative bulk material	0.43	290	673	22	5	1077 ±	162	15
E144-1	503949	29+73	Cooling joint	Representative bulk material	0.22	66	301	10	2	815 ±	34	4
E146-4	503987	30.18	Fracture	Representative bulk material	1.81	28	16	0	0	496 ±	24	5
E147-1	503976	30+27	Cooling joints	Representative bulk material	1.65	528	320	10	2	490 ±	15	3
E149-1	503973	31+64	Cooling joint	Representative bulk material	0.71	454	640	21	4	631 ±	29	5
E150-1	503939	33+00	Systematic	Representative bulk material	0.29	3	11	0	0	1337 ±	56	4
E151-4	503990	33+16	Fracture	Representative bulk material	2.31	470	203	6	1	529 ±	24	4
E152-1	503993	34+28	Fractures	Representative bulk material	0.25	260	1041	35	7	4105 ±	310	8
E153-3	503938	34+32	Cooling joints	Representative bulk material	0.22	131	594	20	4	3291 ±	165	5
E154-1	503937	34+71	Cooling joints	Breccia	0.34	59	177	6	1	805 ±	42	5
E154-3	503937	34+71	Cooling joints	Large rock fragments	0.20	36	179	6	1	3794 ±	120	3
E155-1	503980	35+00	Systematic	Representative bulk material	0.52	218	419	14	3	1013 ±	60	6
E156-1	503969	35+00	Cooling joints	Representative	1.00	298	298	10	2	626 ±	29	5

APPENDIX B (continued)

HALIDE AND CHLORINE-36 ANALYSES OF ESF ROCK SAMPLES, SORTED BY ESF STATION

Sample ID	SMF Barcode	Approx ESF Station[3]	Sampled feature	Description of analyzed aliquot	Leached halides mg CL per kg	µg Br per kg	Br/Cl x 10^{-3}	% of Cl derived from constr. water[1] (±1s.d.)		^{36}Cl/Cl x 10^{-15} (±1s.d.)[2]		% err
				bulk material								
E157-3	503994	35+03	Cooling joints	Representative bulk material	0.49	305	622	20	4	1335 ±	83	6
E158-1	503995	35+08	Cooling joints	Breccia	0.73	640	876	29	6	1113 ±	58	5
E158-3	503995	35+08	Cooling joints	Large rock fragments	0.50	464	928	31	7	2586 ±	168	7
E160-1	503979	35+45	Cooling joints	Representative bulk material	0.25	200	802	27	6	3529 ±	205	6
E160-4	503979	35+45	Cooling joint	Representative bulk material	3.37	120	35	1	0	389 ±	17	4
E161-1	503999	35+58	Cooling joint	Breccia	0.77	361	468	15	3	1951 ±	103	5
E161-3	503999	35+58	Cooling joint	Large rock fragments	0.58	275	474	16	3	2146 ±	76	4
E175-1	512511	35+93	Fault	Large rock fragments	0.27	305	1130	37	8	2840 ±	231	8
E175-3	512511	35+93	Fault	Breccia	0.27	321	1189	39	8	1674 ±	141	8
E176-1	512506	36+55	Fault	Large rock fragments	0.86	132	153	5	1	888 ±	27	3
E176-3	512506	36+55	Fault	Breccia	1.00	186	186	6	1	604 ±	25	4
E177-1	512510	37+00	Systematic	Representative bulk material	0.91	8	8	-0	0	484 ±	15	3
E178-1	512504	37+60	Cooling joint	Breccia	1.76	160	91	3	1	471 ±	26	5
E179-1	512509	37+68	Cooling joint	Breccia	1.46	577	395	13	3	363 ±	22	6
E179-3	512509	37+68	Cooling joint	Large rock fragments	1.51	311	206	7	1	397 ±	13	3
E182-1	512502	38+79	Fracture	Breccia	0.43	374	869	29	6	379 ±	38	10
E183-1	512517	38+95	Cooling joint	Breccia	0.39	295	757	25	5	745 ±	39	5
E184-1	512508	39+00	Systematic	Representative bulk material	0.24	21	89	3	1	536 ±	29	5
E185-1	503944	39+39	Frac/lith cavity	Representative bulk material	0.30	186	622	20	4	897 ±	46	5
E186-1	503943	39+47	Cooling joint	Breccia	0.45	340	754	25	5	561 ±	34	6
E187-1	503946	39+61	Cooling joint	Breccia	0.92	204	222	7	2	540 ±	33	6
E221-1	510710	41+00	Systematic	Representative bulk material	0.61	27	44	1	0	773 ±	24	3
E198-2	510700	41+65	Cooling joint	Representative bulk material	1.92	301	157	5	1	291 ±	12	4

APPENDIX B (continued)

HALIDE AND CHLORINE-36 ANALYSES OF ESF ROCK SAMPLES, SORTED BY ESF STATION

Sample ID	SMF Barcode	Approx ESF Station[3]	Sampled feature	Description of analyzed aliquot	Leached halides mg CL per kg	µg Br per kg	Br/Cl x 10^{-3}	% of Cl derived from constr. water[1] (±1s.d.)		^{36}Cl/Cl x 10^{-15} (±1s.d.)[2]		% err
E202-2	512592	42+20	Cooling joint	Representative bulk material	0.59	34	58	2	0	3463 ±	97	3
E222-1	510724	42+55	Shear sets	Breccia	3.80	464	122	4	1	605 ±	18	3
E222-2	510724	42+55	Shear sets	Large rock fragments	2.86	410	143	4	1	531 ±	16	3
E199-2	512590	43+00	Systematic	Representative bulk material	0.28	126	448	15	3	1042 ±	53	5
E200-2	512589	43+39	Fault	Breccia	0.27	312	1156	38	8	967 ±	66	7
E201-2	512591	43+63	Cooling joint	Representative bulk material	0.40	47	118	4	1	1974 ±	65	3
E203-2	512593	44+21	Cooling joint	Representative bulk material	0.43	40	93	3	1	849 ±	34	4
E204-2	512594	44+22	Cooling joint	Representative bulk material	0.61	59	96	3	1	772 ±	31	4
E205-2	512595	45+00	Systematic	Representative bulk material	0.25	157	628	21	4	1514 ±	69	5
E207-2	512597	45+79	Cooling joint	Representative bulk material	1.60	20	12	0	0	593 ±	15	3
E223-1	510728	47+00	Systematic	Representative bulk material	0.32	75	234	8	2	734 ±	37	5
E225-1	510731	48+56	Cooling joints	Representative bulk material	1.22	439	360	12	2	350 ±	14	4
E224-1	510734	49+00	Systematic	Representative bulk material	1.65	36	22	0	0	499 ±	16	3
E226-1	510737	49+56	Cooling joint	Breccia	1.10	320	291	9	2	450 ±	20	4
E226-2	510737	49+56	Cooling joint	Large rock fragments	1.02	168	165	5	1	456 ±	20	4
E227-1	510705	49+89	Cooling joints	Breccia	0.52	417	802	27	6	497 ±	33	7
E230-1	510739	51+00	Systematic	Representative bulk material	0.50	68	136	4	1	555 ±	23	4
E231-1	510740	51+07	Cooling joints	Large rock fragments	0.50	152	304	10	2	709 ±	30	4
E231-2	510740	51+07	Cooling joints	Breccia	0.50	182	364	12	3	530 ±	26	5
E232-1	510741	51+33	Cooling joints	Representative bulk material	0.35	31	87	3	1	942 ±	42	4
E233-1	510742	51+73	Fracture	Representative bulk material	0.34	165	485	16	3	647 ±	30	5
E234-1	510743	52+43	Cooling joint	Representative	0.47	247	526	17	4	290 ±	26	9

APPENDIX B (continued)

HALIDE AND CHLORINE-36 ANALYSES OF ESF ROCK SAMPLES, SORTED BY ESF STATION

Sample ID	SMF Barcode	Approx ESF Station[3]	Sampled feature	Description of analyzed aliquot	Leached halides mg CL per kg	µg Br per kg	Br/Cl x 10^{-3}	% of Cl derived from constr. water[1] (±1s.d.)		^{36}Cl/Cl x 10^{-15} (±1s.d.)[2]		% err
				bulk material								
E235-1	510744	52+46	Cooling joint	Representative bulk material	0.27	140	519	17	4	596 ±	43	7
E236-1	510745	53+00	Systematic	Representative bulk material	0.71	94	133	4	1	416 ±	17	4
E237-1	510746	53+61	Cooling joint	Representative bulk material	0.44	95	216	7	1	538 ±	27	5
E238-1	510747	54+20	Cooling joint	Breccia	1.34	128	96	3	1	726 ±	37	5
E239-1	510748	55+00	Systematic	Representative bulk material	0.30	24	79	2	1	464 ±	23	5
E240-1	510756	56+63	Cooling joint	Representative bulk material	0.29	112	386	13	3	673 ±	42	6
E241-1	510754	56+85	Cooling joint	Breccia	0.74	446	603	20	4	777 ±	38	5
E242-1	510750	56+93	Cooling joint	Breccia >2mm	0.72	188	261	8	2	664 ±	30	4
E242-2	510750	56+93	Cooling joint	Breccia <2mm	0.93	234	252	8	2	1117 ±	49	4
E252-1	515143	57+00	Systematic	Representative bulk material	0.69	74	108	3	1	388 ±	23	6
E253-1	515144	57+27	Fault	Representative bulk material	1.72	64	37	1	0	483 ±	14	3
E254-1	515145	58+66	Fault	Breccia	0.47	552	1175	39	8	588 ±	58	10
E255-1	515146	58+77	Subunit contact	Representative bulk material	2.98	873	293	9	2	140 ±	10	7
E256-1	515147	59+00	Systematic	Breccia	0.52	617	1186	39	8	347 ±	41	12
E256-3	515147	59+00	Systematic	Large rock fragments	1.56	964	618	20	4	359 ±	23	6
E257-1	515148	61+00	Systematic	Representative bulk material	1.19	305	256	8	2	428 ±	26	6
E258-1	515149	61+92	Fracture	Representative bulk material	0.82	326	398	13	3	276 ±	21	8
E259-1	515150	62+00	Systematic	Representative bulk material	0.49	87	177	6	1	409 ±	28	7
E260-1	515151	62+05	Fault	Representative bulk material	1.15	111	97	3	1	261 ±	13	5
E261-1	515152	62+18	Fault	Representative bulk material	0.47	270	574	19	4	749 ±	39	5
E262-1	515153	62+71	Shear	Representative bulk material	0.42	227	540	18	4	420 ±	28	7
E263-1	515154	63+00	Systematic	Representative	3.03	220	72	2	0	465 ±	14	3

APPENDIX B (continued)

HALIDE AND CHLORINE-36 ANALYSES OF ESF ROCK SAMPLES, SORTED BY ESF STATION

Sample ID	SMF Barcode	Approx ESF Station[3]	Sampled feature	Description of analyzed aliquot	Leached halides mg CL per kg	µg Br per kg	Br/Cl x 10^{-3}	% of Cl derived from constr. water[1] (±1s.d.)		^{36}Cl/Cl x 10^{-15} (±1s.d.)[2]		% err
				bulk material								
E264-1	515155	63+06	Fracture	Representative bulk material	1.71	278	162	5	1	459 ±	14	3
E265-1	515156	63+21	Fracture	Representative bulk material	3.31	128	39	1	0	452 ±	12	3
E266-1	515157	63+26	Fracture	Representative bulk material	3.73	175	47	1	0	486 ±	16	3
E267-1	515158	63+30	Fault	Representative bulk material	3.74	427	114	4	1	427 ±	14	3
E270-1	515187	63+81	Fracture	Representative bulk material	3.64	692	190	6	1	439 ±	14	3
E272-1	515185	64+34	Broken rock	Representative bulk material	1.38	36	26	1	0	467 ±	22	5
E275-1	515181	65+00	Systematic	Representative bulk material	1.79	167	93	3	1	443 ±	19	4
E268-1	515180	65+20	Fracture zone	Representative bulk material	1.73	91	53	1	0	468 ±	18	4
E277-1	515178	65+80	Fracture zone	Representative bulk material	1.97	545	277	9	2	424 ±	33	8
E279-1	515176	66+15	Fault	Representative bulk material	1.32	1335	1011	34	7	402 ±	40	10
E280-1	515175	66+40	Fault zone	Representative bulk material	0.30	197	657	22	5	238 ±	30	13
E281-1	515174	67+00	Systematic	Representative bulk material	2.28	66	29	1	0	453 ±	18	4
E283-1	515172	67+27	Fault	Representative bulk material	3.04	64	21	0	0	470 ±	21	4
E289-1	515170	67+61	Fault	Representative bulk material	4.36	228	52	1	0	589 ±	23	4
E285-1	515171	67+73	Damp zone	Representative bulk material	4.75	57	12	0	0	468 ±	23	5
E286-1	515133	67+87	Fault zone	Representative bulk material	2.19	83	38	1	0	475 ±	22	5
E287-1	515134	67+87	Fault	Representative bulk material	2.26	45	20	0	0	517 ±	19	4
E288-1	515132	67+90	Fault footwall	Representative bulk material	1.09	278	255	8	2	557 ±	31	5
E228-1	510795	Alcove 2 (1+68)	Drill & blast	Representative bulk material	0.73	818	1121	37	8	362 ±	41	font

APPENDIX B (continued)

HALIDE AND CHLORINE-36 ANALYSES OF ESF ROCK SAMPLES, SORTED BY ESF STATION

[1] Construction water is used for numerous routine operations in the ESF, including wetting the Tunnel Boring Machine cutter head, wet-drilling for installation of rock bolts, providing dust control on the muck belt, and spraying tunnel ribs to facilitate fracture mapping. It is prepared from UE25 J#13 wellwater traced with lithium bromide salt to a bromide concentration of 20 ppm, about 400 times its background level. The proportion of construction-water chloride (f_c) present in each sample processed for ^{36}Cl is estimated from the measured Br/Cl (halide) ratio (HR_x), using a two-component mixing equation, $f_c = (HR_x - HR_m) / (HR_c - HR_m)$, where HR_m is the Br/Cl ratio of meteoric water (0.009) and HR_c is the Br/Cl ratio of the construction water (3.0) (Fabryka-Martin et al, in press).

[2] The $^{36}Cl/Cl$ ratios (R_m) reported in this appendix have been corrected for the presence of chloride from construction water, using the following equation: $R_m = (R_x - f_c R_c) / (1 - f_c)$, where R_x is the measured $^{36}Cl/Cl$ ratio, f_c is the proportion of chloride in the sample that is attributable to the construction water (see footnote 1), and R_c is the $^{36}Cl/Cl$ ratio of the construction water (500×10^{-15}) (Fabryka-Martin et al., in press).

[3] In this table, samples collected from alcoves have been assigned the ESF locations corresponding to the center line station intersection of the alcove with the North Ramp or Main Drift.