



Report No.: A22-18964
Report Date: 17-Feb-23
Date Submitted: 19-Dec-22
Your Reference: SHEEP CREEK

U.S. CRITICAL MATERIALS
4190 SOUTH HIGHLANDS DRIVE, SUITE 230, S
SALT LAKE CITY UTAH
United States

CERTIFICATE OF ANALYSIS

221 Soil samples were submitted for analysis.

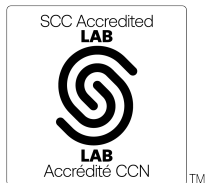
Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: 8-REE Assay Package, QOP WRA/ QOP WRA 4B2 (Major/Trace Elements Fusion ICPOES/ICPMS), 2023-01-17 08:39:03

REPORT A22-18964

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Notes:

Total includes all elements in % oxide to the left of total.



LabID: 266

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CERTIFIED BY:

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Mark Vandergeest
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A22-18964

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468217	51.94	15.61	9.11	0.126	7.26	6.59	2.40	0.83	0.842	0.02	5.13	99.84	29	1	191	210	39	140	40	70	17	1	< 5
468218	51.14	16.66	9.22	0.122	6.31	6.30	2.71	0.86	0.886	0.11	6.06	100.4	31	2	200	150	36	110	50	80	18	1	< 5
468219	55.09	16.49	7.49	0.100	4.70	4.67	2.69	1.36	0.808	0.16	6.80	100.4	22	2	139	190	30	100	60	70	19	1	< 5
468220	51.45	15.89	8.83	0.117	5.81	5.30	2.18	1.15	0.906	0.17	7.25	99.04	27	2	171	300	31	100	60	80	18	2	< 5
468221	52.59	16.50	8.40	0.121	4.45	3.81	2.94	1.15	0.921	0.19	7.90	98.97	27	2	172	140	29	70	60	80	20	1	< 5
468222	51.65	16.74	8.40	0.112	5.52	5.39	2.15	1.08	0.834	0.11	8.16	100.1	27	2	169	220	32	100	50	80	19	1	< 5
468223	52.77	16.92	9.80	0.126	4.45	4.72	2.66	1.12	1.182	0.11	7.01	100.9	30	2	206	120	32	60	60	100	20	2	< 5
468224	54.85	15.77	9.69	0.116	4.59	4.86	2.54	1.26	0.993	0.08	6.16	100.9	31	2	207	90	32	50	40	70	18	1	< 5
468225	52.75	17.00	7.77	0.141	3.92	4.55	2.44	1.24	0.944	0.06	8.57	99.39	22	2	184	110	28	70	70	90	21	2	< 5
468226	54.24	17.63	7.86	0.092	3.16	3.47	2.61	1.41	1.005	0.11	9.01	100.6	19	2	146	100	25	60	50	100	22	1	< 5
468227	53.14	17.59	9.74	0.097	4.51	5.58	2.65	1.25	1.167	0.19	4.85	100.8	29	2	232	160	34	80	40	70	23	2	< 5
468228	55.36	16.38	7.95	0.135	4.28	4.60	2.61	1.29	0.924	0.31	6.63	100.5	24	2	157	110	27	60	40	90	20	1	< 5
468229	54.52	15.35	9.53	0.132	5.41	5.95	2.60	1.18	1.089	0.05	4.27	100.1	33	2	210	160	34	70	40	80	19	2	< 5
468229A	19.34	9.01	53.40	0.383	1.43	1.24	0.18	0.11	3.163	3.18	1.02	92.46	156	17	247	370	18	90	100	1140	113	23	105
468230	52.29	15.98	10.24	0.123	5.40	5.95	2.19	1.26	1.178	0.07	4.81	99.50	33	2	232	150	38	80	50	80	19	1	< 5
468231	54.19	16.28	9.39	0.113	4.86	5.09	2.31	1.60	1.160	0.17	5.40	100.6	31	2	196	150	31	80	50	90	23	2	< 5
468232	53.89	15.21	11.02	0.144	4.35	4.97	2.43	1.46	1.417	0.10	5.88	100.9	32	2	244	90	35	70	50	120	21	2	< 5
468233	54.37	15.24	8.67	0.107	4.70	5.39	2.58	1.36	1.170	0.01	5.48	99.08	31	2	198	130	28	80	40	60	20	1	< 5
468234	53.27	16.24	9.06	0.112	5.41	5.41	2.40	0.99	1.010	0.08	6.02	100.0	27	2	190	180	35	100	60	80	20	1	< 5
468235	53.19	16.06	8.81	0.110	5.29	5.34	2.38	0.99	0.993	0.08	6.40	99.65	27	2	188	180	34	100	60	80	20	1	< 5
468236	53.54	15.39	9.04	0.110	4.81	5.34	2.66	0.94	1.128	0.08	6.37	99.42	31	2	194	160	32	80	50	70	19	1	< 5
468237	54.73	17.02	7.64	0.093	3.92	4.50	2.74	1.09	0.941	0.21	7.40	100.3	25	2	158	120	22	50	40	70	20	1	< 5
468238	52.88	16.29	8.62	0.106	4.91	5.01	2.48	1.02	0.979	0.11	7.21	99.63	26	2	178	160	30	90	50	80	19	1	< 5
468239	52.81	15.65	9.84	0.116	4.58	5.04	2.70	0.98	1.138	0.06	5.73	98.64	31	2	204	130	31	60	50	90	20	2	< 5
468240	58.52	16.41	6.09	0.070	2.64	2.75	2.46	1.80	0.788	0.35	7.72	99.60	15	2	99	80	19	60	30	90	20	1	< 5
468241	52.41	16.03	8.07	0.101	4.54	4.71	2.42	1.06	0.936	0.14	8.38	98.79	25	2	168	140	28	80	50	70	20	1	< 5
468242	52.04	16.43	8.52	0.103	4.69	4.79	2.50	1.06	0.970	0.15	8.00	99.26	26	2	175	140	30	80	50	30	19	1	< 5
468242A	30.27	11.50	46.57	0.093	1.78	1.78	0.23	0.28	2.997	0.79	2.11	98.41	42	2	391	580	12	70	50	100	45	2	34
468243	50.15	15.74	10.88	0.173	5.37	6.30	2.33	1.29	1.281	0.14	6.25	99.90	34	1	224	140	37	80	60	50	18	1	< 5
468244	52.79	16.28	9.43	0.112	4.42	4.72	2.82	1.09	1.144	0.12	7.05	99.96	29	2	198	120	28	60	40	40	19	2	< 5
468245	51.95	15.45	10.68	0.161	5.12	5.11	2.37	1.68	1.250	0.12	6.67	100.6	33	2	228	150	36	80	50	50	18	1	< 5
468246	52.97	15.50	11.69	0.146	4.83	5.53	2.18	1.31	1.218	0.15	5.14	100.7	36	2	224	110	34	60	60	70	19	2	< 5
468247	59.45	16.97	5.86	0.126	1.50	1.98	2.50	2.08	0.886	0.25	8.75	100.4	13	2	84	60	13	30	40	80	22	1	< 5
468248	55.11	16.22	7.52	0.122	2.23	2.10	2.84	1.78	1.093	0.24	8.50	97.74	19	3	134	70	17	40	30	60	22	1	< 5
468249	54.16	16.48	8.59	0.166	3.37	3.22	2.52	1.40	1.212	0.30	8.89	100.3	23	2	174	100	25	60	40	70	20	1	< 5
468250	56.59	16.91	8.22	0.109	2.85	2.63	2.47	1.52	1.249	0.16	8.15	100.9	23	2	167	90	23	50	40	60	21	1	< 5
468251	60.15	14.44	8.62	0.087	3.20	2.67	2.98	2.09	1.169	0.12	4.19	99.71	30	3	172	100	20	40	20	40	20	2	< 5
468252 extra not on client list	56.52	15.82	4.92	0.093	1.19	2.14	2.90	2.03	0.756	0.35	12.20	98.92	10	2	69	40	10	20	20	40	21	1	< 5
468253	59.07	14.76	8.60	0.092	3.71	3.30	2.47	1.79	1.256	0.13	5.44	100.6	28	2	179	120	24	50	30	< 30	18	1	< 5
468254	53.35	15.35	9.79	0.133	6.00	5.87	2.34	0.97	1.088	0.10	5.59	100.6	34	2	213	170	37	80	50	40	18	1	< 5
468255	53.15	14.97	10.70	0.134	5.15	5.64	2.30	1.07	1.243	0.11	5.67	100.1	36	2	240	100	35	60	40	50	19	2	< 5
468256	51.82	15.10	9.38	0.172	5.91	6.07	2.20	0.91	0.902	0.14	6.54	99.13	32	1	194	180	33	70	50	50	18	2	< 5
468257	60.30	15.04	6.64	0.071	2.88	3.09	2.46	1.55	1.321	0.23	6.59	100.2	20	2	143	120	18	60	20	40	19	1	< 5
468257A	26.00	10.44	49.70	0.162	1.74	1.71	0.22	0.13	3.128	1.37	1.45	96.05	71	6	366	540	14	80	60	340	58	3	40
468258	61.31	14.95	6.89	0.060	2.51	2.49	2.32	1.97	1.235	0.13	5.63	99.49	22	2	138	100	16	50	20	30	20	2	< 5
468259	61.51	15.69	5.53	0.081	1.81	1.94	2.53	1.87	1.024	0.16	8.60	100.7	21	3	121	70	11	30	20	30	19	1	< 5
468260	52.90	14.75	10.26	0.130	5.22	5.88	2.48	0.95	1.314	0.12	5.15	99.15	35	2	225	130	35	60	50	60	19	2	< 5
468261	52.39	16.44	8.51	0.112	5.73	5.68	2.48	0.96	0.876	0.13	6.30	99.63	27	2	175	170	33	100	50	70	18	1	< 5
468262	51.59	15.56	8.91	0.124	5.95	6.52	2.32	0.96	0.923	0.06	5.82	98.73	30	2	193	200	32	80	30	40	18	2	< 5

Results

Activation Laboratories Ltd.

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Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468263	54.65	16.70	8.09	0.097	3.83	4.51	2.53	1.18	1.153	0.12	7.83	100.7	24	2	166	120	26	70	40	40	21	2	< 5
468263A	69.50	11.93	6.73	0.090	2.07	3.72	2.81	1.97	0.615	0.16	1.29	100.9	12	1	119	170	13	30	30	40	15	1	< 5
468264	58.07	16.00	8.27	0.112	3.80	4.47	2.61	1.54	1.280	0.09	4.64	100.9	26	2	174	100	28	60	30	80	20	2	< 5
468265	53.57	15.62	9.64	0.162	4.94	5.80	2.75	1.09	1.165	0.08	4.97	99.79	32	2	218	150	34	80	40	60	19	2	< 5
468266	58.61	16.72	5.79	0.080	2.06	2.91	2.61	1.56	0.980	0.21	8.00	99.53	17	3	111	70	15	40	30	70	21	1	< 5
468267	53.52	16.34	8.43	0.128	3.98	4.48	2.54	1.18	1.055	0.23	7.70	99.59	25	2	178	120	32	80	50	70	22	2	< 5
468268	51.88	16.67	9.11	0.116	4.55	5.29	2.49	1.03	1.162	0.15	7.61	100.1	28	2	188	100	32	70	40	40	20	1	< 5
468269	52.65	15.78	9.27	0.121	4.76	5.46	2.61	1.10	1.159	0.14	6.94	99.99	28	2	191	100	30	60	40	70	19	1	< 5
468270	52.40	16.24	9.14	0.128	5.00	4.85	2.74	1.01	1.017	0.13	7.49	100.1	28	2	183	150	31	80	50	110	20	1	< 5
468271	53.81	15.55	10.22	0.128	4.90	5.52	2.28	1.35	1.328	0.11	5.09	100.3	34	2	228	130	33	70	40	40	20	2	< 5
468272	60.74	16.34	4.97	0.076	1.32	1.85	2.71	2.13	0.828	0.19	6.64	97.79	12	3	81	40	10	< 20	20	40	21	1	< 5
468273	61.56	16.62	5.03	0.088	1.28	1.98	2.65	2.22	0.853	0.17	6.98	99.42	11	3	79	40	10	< 20	20	50	21	1	< 5
468274	49.25	15.16	9.75	0.143	6.32	6.31	2.02	0.93	0.734	0.12	7.93	98.66	31	1	212	260	36	100	50	90	19	2	< 5
468275	51.74	15.92	9.89	0.148	5.73	5.49	3.08	0.95	0.930	0.11	6.06	100.0	35	2	212	160	33	70	50	50	19	2	< 5
468276	52.25	16.98	7.03	0.138	3.19	3.63	2.57	1.33	0.887	0.10	10.60	98.70	18	2	143	100	23	50	50	70	22	1	< 5
468277	52.14	16.44	9.76	0.133	5.46	5.70	2.58	1.02	0.935	0.13	6.50	100.8	30	2	200	160	32	70	50	40	19	1	< 5
468278	53.58	16.30	8.21	0.163	4.63	5.02	2.36	1.28	0.947	0.17	7.52	100.2	24	2	161	110	28	80	40	310	19	1	< 5
468279	61.69	14.36	6.43	0.067	1.53	2.04	2.97	1.94	1.032	0.21	6.46	98.73	15	3	105	50	11	< 20	20	60	19	1	< 5
468280	58.27	16.73	6.03	0.100	1.39	1.43	2.48	2.18	1.110	0.18	7.98	97.89	13	3	88	50	12	20	20	970	22	2	< 5
468281	63.70	16.74	5.00	0.058	1.18	1.05	3.90	2.58	0.872	0.16	5.09	100.3	15	3	76	40	9	< 20	20	70	23	2	< 5
468282	61.91	16.76	5.18	0.052	1.37	1.96	2.78	1.99	0.942	0.13	7.31	100.4	12	3	84	40	11	< 20	10	140	21	1	< 5
468283	60.32	16.19	5.70	0.090	1.32	1.85	2.78	2.26	0.961	0.18	7.45	99.10	12	2	83	50	11	< 20	20	80	23	2	< 5
468292A	49.09	12.24	27.89	0.050	1.26	0.98	0.17	1.49	1.954	0.45	3.15	98.73	30	3	253	400	10	60	40	160	34	2	51
468293	53.26	16.90	8.53	0.120	3.94	4.17	2.48	1.28	1.133	0.22	8.32	100.4	23	2	169	120	30	60	50	140	22	2	< 5
468294	53.79	15.67	9.93	0.126	5.07	5.35	2.40	1.11	1.140	0.14	6.03	100.7	30	2	202	130	34	70	50	360	20	2	< 5
468295	52.89	14.56	10.01	0.168	4.94	3.94	3.76	1.67	1.215	0.74	5.11	98.99	39	2	200	100	27	50	30	180	25	1	< 5
468296	52.11	15.00	11.54	0.153	5.67	6.40	2.26	1.17	1.315	0.12	5.00	100.7	34	2	264	120	40	80	60	160	19	1	< 5
468297	51.41	16.13	11.40	0.144	4.79	5.26	2.10	1.38	1.483	0.12	6.63	100.8	29	2	244	120	38	70	70	120	20	1	< 5
468298	53.08	16.67	8.76	0.116	5.83	6.23	2.35	1.03	0.949	0.08	5.39	100.5	26	1	171	170	35	100	60	80	19	1	< 5
468299	53.85	17.32	7.95	0.100	4.66	4.91	2.38	1.26	0.959	0.13	6.81	100.3	20	2	149	150	32	100	80	150	20	2	< 5
468300	52.14	15.41	9.75	0.134	5.99	6.18	2.27	1.02	0.942	0.13	5.63	99.60	28	1	194	140	39	90	70	150	19	1	< 5
468771	55.60	16.48	7.62	0.098	2.91	3.42	2.39	1.57	0.980	0.28	8.34	99.69	20	2	135	90	21	40	30	160	21	2	< 5
468772	54.34	15.68	9.28	0.102	4.59	4.24	2.58	1.46	1.123	0.30	5.46	99.15	29	2	188	120	29	60	40	130	21	2	< 5
468773	57.56	14.94	7.95	0.083	3.20	3.89	2.56	1.68	1.018	0.09	5.56	98.53	22	2	142	100	20	40	20	120	20	2	< 5
468774	53.16	16.08	8.97	0.132	4.93	4.98	2.27	1.24	0.895	0.10	7.13	99.89	25	1	179	130	31	70	50	160	19	1	< 5
468775	50.68	16.62	10.14	0.112	5.43	5.95	1.84	1.10	0.896	0.04	6.75	99.59	28	1	189	140	38	90	70	170	19	1	< 5
468776	55.93	14.95	8.46	0.127	4.82	4.81	2.15	1.24	0.978	0.11	5.87	99.45	24	1	164	170	30	70	30	130	18	1	< 5
468776A	3.30	12.18	48.69	0.342	0.68	1.25	0.10	0.05	9.900	8.27	1.32	86.09	189	13	556	530	23	180	140	1120	287	15	102
468777	54.55	15.54	8.77	0.095	5.74	4.76	2.44	1.23	0.874	0.11	5.83	99.95	25	2	159	180	31	90	50	250	18	1	< 5
468778	51.18	13.97	10.67	0.140	6.04	6.61	2.39	0.95	1.335	0.12	5.50	98.90	33	1	231	190	37	80	50	130	18	1	< 5
468779	56.78	16.71	6.29	0.072	3.34	2.98	2.26	1.46	0.733	0.23	8.63	99.47	15	2	101	90	23	80	40	90	18	1	< 5
468780	49.47	15.08	11.60	0.145	5.60	7.34	2.29	0.85	1.401	0.16	6.36	100.3	37	1	235	140	39	80	80	180	19	1	< 5
468781	57.09	15.23	7.66	0.107	3.40	3.96	2.38	1.85	0.864	0.07	6.94	99.55	21	2	131	130	24	50	40	170	19	1	< 5
468782	59.41	16.14	6.19	0.070	2.09	2.48	2.59	2.06	0.863	0.45	6.93	99.28	15	2	100	70	16	50	30	250	22	2	< 5
468783	59.64	16.80	6.13	0.066	2.08	2.49	2.59	2.09	0.867	0.46	6.86	100.1	15	2	100	70	16	40	30	200	22	1	< 5
468784	60.47	15.98	5.92	0.066	2.08	2.53	2.73	2.15	0.840	0.38	6.37	99.50	16	2	100	70	16	50	30	90	21	2	5
468785	51.65	15.32	11.03	0.143	5.94	6.16	2.17	1.17	1.211	0.20	5.08	100.1	32	2	223	170	43	90	60	180	19	1	< 5
468786	54.44	14.91	9.27	0.135	4.84	5.53	2.40	1.44	1.292	0.17	5.23	99.67	32	2	202	170	34	70	50	140	18	1	< 5
468787	51.08	16.68	8.63	0.119	6.68	5.64	3.30	1.11	0.902	0.39	5.63	100.2	29	2	160	170	36	90	90	70	18	2	< 5
468788	55.35	15.32	9.35	0.122	4.97	5.54	2.49	1.45	1.325	0.17	4.87	101.0	33	2	207	170	34	70	50	150	18	2	< 5

Results

Activation Laboratories Ltd.

Report: A22-18964

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468788A	67.24	12.21	7.88	0.096	2.15	3.77	2.81	1.96	0.648	0.17	1.20	100.1	12	1	122	170	14	30	20	140	16	1	< 5
468789	51.12	15.66	11.06	0.200	5.15	5.46	2.18	1.61	1.191	0.13	6.47	100.2	31	2	215	140	40	80	60	170	19	1	< 5
468790	50.97	15.75	11.14	0.196	5.10	5.49	2.19	1.58	1.199	0.13	6.48	100.2	31	1	217	130	40	80	60	180	19	1	< 5
468791	55.80	14.76	9.40	0.148	4.42	4.54	2.54	2.16	1.088	0.12	5.53	100.5	27	2	174	170	29	70	40	170	19	1	< 5
468792	61.84	16.11	6.06	0.072	2.45	2.74	3.08	1.80	0.985	0.15	5.22	100.5	22	3	123	90	15	30	20	150	20	1	< 5
468793	56.11	16.43	6.96	0.135	2.33	2.70	2.45	1.74	0.988	0.49	9.23	99.55	17	2	118	80	20	40	30	240	22	1	< 5
468793A	27.62	10.90	48.95	0.127	1.80	1.80	0.22	0.14	3.111	1.12	1.27	97.05	56	4	380	630	14	70	60	350	55	3	38
468794	52.27	15.79	9.17	0.128	5.42	4.62	2.63	1.36	1.209	0.10	5.82	98.53	28	2	202	130	34	80	50	80	19	1	< 5
468795	56.70	15.19	8.74	0.121	3.32	4.18	2.74	1.82	1.203	0.11	5.27	99.42	30	3	184	110	23	40	40	190	21	2	< 5
468796	50.44	16.55	11.38	0.116	5.34	5.45	2.19	1.10	1.428	0.06	6.70	100.7	33	2	253	170	39	90	60	160	21	2	5
468797	50.02	15.42	10.27	0.148	5.42	5.09	2.69	1.38	1.156	0.20	6.02	97.81	36	2	216	160	37	80	50	260	20	2	< 5
468798	55.17	15.91	8.77	0.137	4.17	4.79	2.39	1.42	1.188	0.16	6.32	100.4	26	2	175	130	29	60	30	300	21	2	< 5
468799	54.88	16.98	7.95	0.096	4.00	4.59	2.74	1.07	0.967	0.24	7.35	100.9	24	2	161	130	23	50	40	170	21	2	< 5
468800	51.69	14.87	10.87	0.131	4.60	5.18	2.12	1.21	1.192	0.19	6.00	98.05	33	2	214	110	34	70	50	110	20	2	< 5
468801	50.65	13.61	11.49	0.162	5.60	5.35	2.61	1.49	1.168	0.17	7.83	100.1	39	1	244	130	42	80	60	100	18	2	< 5
468802	52.76	15.67	8.88	0.118	5.22	4.50	2.19	1.11	1.050	0.17	7.35	99.01	29	2	181	170	30	90	40	80	18	1	< 5
468803	60.85	12.84	6.69	0.158	2.23	2.00	2.42	2.26	1.027	0.11	7.19	97.79	18	2	137	90	16	40	20	60	17	1	< 5
468804	50.69	13.40	11.10	0.154	5.81	5.72	2.40	1.31	1.259	0.10	6.36	98.29	35	1	244	190	42	110	80	80	17	2	< 5
468805	44.65	12.86	13.65	0.220	5.24	5.90	2.14	1.33	1.304	0.23	11.48	99.01	41	1	305	110	51	90	90	120	18	1	< 5
468806	55.29	14.34	9.92	0.116	4.31	3.99	2.53	2.04	1.179	0.08	5.17	98.95	33	2	206	120	26	60	40	70	17	1	< 5
468807	55.80	14.92	8.27	0.101	3.89	4.03	2.54	1.54	1.230	0.12	5.81	98.25	26	2	188	140	28	70	40	200	21	2	< 5
468807A	27.86	10.66	48.57	0.127	1.80	1.83	0.22	0.14	3.054	1.12	1.47	96.86	57	4	391	570	13	80	60	250	50	3	36
468808	55.05	14.95	9.55	0.092	4.64	3.62	2.78	1.72	1.277	0.08	5.67	99.42	31	2	212	160	30	80	40	70	19	2	< 5
468809	53.05	15.12	9.05	0.168	4.58	5.35	1.99	1.15	1.109	0.13	7.55	99.26	26	2	182	130	30	70	40	120	17	1	< 5
468810	51.82	15.42	8.37	0.166	4.66	4.56	2.32	1.11	1.067	0.18	8.19	97.86	24	1	171	150	34	90	50	120	19	2	5
468811	54.41	16.06	6.75	0.082	3.13	3.40	2.51	1.34	0.906	0.15	9.33	98.06	19	2	132	90	25	70	40	80	20	2	5
468812	63.67	13.60	6.40	0.078	2.28	2.82	2.28	1.77	1.106	0.05	4.85	98.90	20	2	138	90	14	40	10	60	17	1	< 5
468813	65.47	14.60	3.84	0.065	1.29	1.88	2.49	2.98	0.629	0.10	5.13	98.49	8	2	56	40	8	< 20	10	110	19	1	< 5
468814	55.09	14.31	9.41	0.149	3.67	2.65	2.34	2.10	1.153	0.16	8.56	99.59	34	2	210	150	34	70	50	70	20	2	5
468815	53.10	16.80	8.53	0.118	4.38	4.84	2.20	1.12	0.971	0.10	6.20	98.35	23	1	161	110	32	80	50	90	19	1	< 5
468816	51.94	16.20	8.69	0.135	4.49	4.71	2.00	1.07	0.978	0.14	8.23	98.58	23	1	167	140	32	80	40	90	18	1	< 5
468817	54.64	15.07	8.39	0.147	4.29	4.69	2.20	1.18	1.117	0.11	6.55	98.37	25	2	174	130	28	70	30	100	18	1	< 5
468818	59.90	15.03	7.37	0.119	3.58	3.93	2.39	1.35	1.029	0.08	5.67	100.4	24	2	152	110	21	50	20	80	18	1	< 5
468819	59.77	14.34	7.41	0.099	2.95	3.03	2.09	1.81	1.102	0.13	6.44	99.17	22	2	153	120	22	50	20	70	20	2	< 5
468820	56.90	15.62	5.68	0.065	1.62	1.97	2.45	1.84	0.859	0.22	10.87	98.10	13	2	94	60	13	30	20	80	22	2	5
468821	48.11	14.34	10.63	0.173	5.27	4.63	2.27	1.49	1.206	0.14	9.56	97.81	34	2	235	210	42	100	60	90	18	1	< 5
468822	52.11	14.66	10.04	0.139	4.68	4.59	2.19	1.70	1.249	0.10	6.65	98.12	30	2	213	180	31	70	60	90	19	2	< 5
468823A	50.05	12.06	26.90	0.049	1.25	1.00	0.17	1.49	1.880	0.45	3.15	98.45	29	3	257	380	10	70	40	120	33	2	52
468825	49.40	13.63	11.12	0.155	7.04	5.77	1.55	1.75	2.191	0.78	6.59	99.98	29	2	226	250	37	150	60	110	20	1	< 5
468826	55.58	16.86	7.72	0.102	3.25	3.74	2.45	1.36	1.139	0.19	7.87	100.3	22	2	159	80	23	50	40	80	20	2	< 5
468827	52.45	15.51	10.00	0.133	4.92	4.73	2.35	1.02	1.287	0.20	7.53	100.1	28	2	211	130	36	90	60	90	21	2	< 5
468828	53.94	16.01	7.88	0.109	3.85	4.34	2.25	1.17	1.042	0.19	7.26	98.04	22	2	157	110	27	70	40	90	20	1	< 5
468829	54.49	15.67	9.17	0.158	4.89	5.26	2.54	1.25	1.111	0.26	5.64	100.4	29	2	187	130	33	80	50	80	19	2	< 5
468830	53.37	16.67	7.84	0.102	3.70	3.89	2.56	1.24	0.979	0.16	8.19	98.70	22	2	152	90	24	50	40	80	19	1	< 5
468831	50.21	16.61	9.90	0.110	4.37	4.68	2.32	1.10	1.142	0.13	7.28	97.86	28	2	204	110	33	60	50	90	21	1	25
468832	50.35	15.64	11.54	0.128	4.82	5.12	2.48	0.97	1.076	0.17	6.05	98.34	32	2	218	110	35	70	50	90	19	2	< 5
468833	53.12	17.24	7.30	0.085	3.01	3.52	2.30	1.47	0.845	0.17	9.27	98.34	16	2	123	90	22	50	40	80	21	1	5
468834	54.01	15.52	7.95	0.104	3.09	3.52	2.30	1.23	1.036	0.18	9.44	98.38	22	2	163	110	23	50	30	80	20	1	< 5
468834A	66.86	11.60	8.25	0.098	1.99	3.61	2.69	1.92	0.655	0.18	0.76	98.61	11	1	125	240	14	40	20	60	15	1	< 5

Results

Activation Laboratories Ltd.

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Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468835	52.44	15.88	8.46	0.143	3.80	3.99	2.19	1.15	0.993	0.17	9.06	98.27	24	2	169	140	27	70	40	80	20	1	< 5
468836	52.22	16.84	8.79	0.110	4.21	4.38	2.29	1.20	1.036	0.16	7.66	98.90	24	2	170	120	30	60	50	90	21	1	< 5
468837	51.49	15.87	9.63	0.116	4.81	5.10	2.13	1.14	1.097	0.12	6.40	97.90	26	2	204	150	35	90	60	90	20	2	< 5
468838	51.37	16.20	9.45	0.116	4.88	5.17	2.13	1.14	1.111	0.12	6.39	98.07	27	2	205	140	34	80	60	80	19	1	< 5
468839	52.01	15.44	9.34	0.117	4.85	5.15	2.14	1.15	1.066	0.11	6.52	97.90	27	2	205	140	35	80	60	80	20	2	< 5
468840	52.35	14.99	9.52	0.110	4.84	5.35	2.55	0.87	1.126	0.11	6.09	97.89	30	2	195	170	32	80	50	70	19	2	< 5
468841	52.33	15.28	10.39	0.118	4.60	5.12	2.76	0.95	1.158	0.09	5.18	97.99	32	2	213	140	32	70	40	80	19	2	< 5
468842	54.50	16.17	7.59	0.093	3.97	4.63	2.74	1.05	0.920	0.24	7.29	99.17	24	2	159	130	23	60	40	70	20	2	< 5
468843	54.22	15.56	6.87	0.126	3.36	3.85	2.72	1.39	1.253	0.31	9.40	99.06	24	3	152	130	17	60	30	70	20	1	< 5
468844	53.63	15.58	6.82	0.126	3.40	3.87	2.70	1.35	1.249	0.30	9.52	98.54	24	3	151	130	18	60	30	60	20	1	< 5
468845	53.00	16.58	9.58	0.124	4.91	5.23	2.18	1.18	1.119	0.12	6.74	100.8	27	2	206	140	35	90	60	2300	20	1	< 5
468900A	30.61	11.03	45.38	0.092	1.80	1.80	0.22	0.27	3.016	0.86	1.74	96.80	43	2	381	570	12	90	50	170	44	2	37
468901	51.27	14.21	10.33	0.144	5.14	4.98	2.53	1.43	1.115	0.19	7.02	98.37	33	2	210	140	35	70	50	110	19	2	< 5
468902	59.35	16.10	5.01	0.067	1.01	1.71	2.63	2.28	0.760	0.32	8.66	97.89	10	3	63	50	10	20	20	90	21	1	< 5
468903	60.74	16.63	5.09	0.088	1.30	2.00	2.72	2.23	0.870	0.17	6.84	98.68	11	2	77	50	10	20	20	100	21	1	< 5
468904	60.62	16.24	5.50	0.086	1.36	1.88	2.69	2.23	0.845	0.20	6.86	98.51	12	3	79	50	10	30	20	90	21	2	< 5
468905	56.14	15.60	7.44	0.130	3.01	3.34	2.59	1.69	0.963	0.30	7.63	98.83	19	2	128	100	20	50	20	130	21	1	5
468906	56.57	15.91	7.91	0.104	3.77	4.12	2.37	1.34	1.044	0.21	6.08	99.43	26	2	163	130	24	60	30	170	21	1	< 5
468907	52.78	15.06	9.46	0.123	5.88	6.26	2.64	0.79	1.008	0.08	4.42	98.50	35	2	208	160	32	80	30	120	19	2	< 5
468908	51.41	15.52	7.80	0.114	7.37	6.14	2.30	1.08	0.683	0.05	6.07	98.54	25	1	140	310	35	160	40	90	16	1	< 5
468909	52.53	16.46	7.42	0.132	4.85	5.17	2.51	1.26	0.794	0.26	8.53	99.91	22	2	141	190	27	90	40	70	19	1	10
468910	52.97	15.62	10.30	0.130	6.34	6.29	2.59	0.78	1.163	0.09	4.27	100.5	37	2	229	210	34	90	50	90	19	2	< 5
468911	51.90	15.84	10.29	0.122	4.89	4.21	2.49	1.25	1.342	0.17	6.52	99.03	36	2	239	140	33	90	60	100	23	2	< 5
468912	50.90	16.38	9.16	0.130	5.72	5.76	2.29	1.04	1.067	0.17	6.25	98.87	27	2	186	180	38	120	60	110	19	1	< 5
468913	53.47	16.02	10.21	0.130	4.97	5.66	2.24	1.38	1.449	0.06	4.28	99.88	32	2	229	160	33	100	40	100	20	2	< 5
468914	59.49	15.28	6.54	0.100	2.68	3.34	2.44	1.68	1.000	0.21	6.43	99.19	18	2	119	80	18	50	20	180	19	1	< 5
468915	52.03	16.81	7.97	0.137	3.64	3.80	2.73	1.36	1.136	0.16	8.06	97.83	24	2	165	90	24	60	40	130	21	1	< 5
468916	54.25	16.27	8.96	0.118	3.72	4.29	2.66	1.37	1.279	0.19	7.28	100.4	26	2	180	90	25	60	30	100	21	2	< 5
468917	52.27	15.92	10.37	0.139	5.53	6.02	2.49	1.16	1.320	0.14	4.92	100.3	35	2	230	130	36	80	50	100	20	2	< 5
468918	56.51	15.68	6.45	0.158	2.64	2.97	2.91	1.66	0.949	0.32	8.47	98.73	17	2	114	90	21	50	30	130	21	1	< 5
468919	54.21	16.33	8.61	0.110	3.13	4.13	2.74	1.22	1.397	0.08	6.27	98.23	25	2	193	80	23	50	30	80	21	1	< 5
468920	49.72	14.44	11.68	0.189	7.08	7.24	2.60	1.12	1.275	0.24	4.50	100.1	39	2	263	150	48	110	70	80	18	2	< 5
468921	48.03	14.54	10.65	0.178	6.13	6.26	2.51	1.38	1.245	0.24	7.78	98.96	36	2	255	140	43	90	80	60	18	1	< 5
468922	52.56	16.43	10.42	0.153	5.06	5.62	2.22	1.47	1.363	0.08	5.42	100.8	30	2	229	140	35	90	60	80	19	1	< 5
468923	51.08	16.11	8.96	0.157	6.08	5.16	3.02	1.36	0.828	0.13	6.22	99.11	30	2	174	180	34	100	60	80	17	1	< 5
468924	52.75	16.50	9.01	0.141	4.18	5.24	2.16	1.27	1.302	0.11	7.32	99.99	26	2	201	110	32	80	50	90	21	1	< 5
468925	55.76	15.48	7.52	0.119	3.85	5.01	2.49	1.42	1.117	0.15	6.37	99.28	24	2	170	100	26	60	30	70	19	1	< 5
468926	54.52	15.45	10.26	0.117	4.48	4.42	2.65	1.30	1.339	0.11	5.23	99.87	33	2	242	110	33	70	40	110	21	1	< 5
468927	53.42	15.89	8.67	0.138	5.03	5.56	2.34	0.99	1.139	0.13	6.00	99.30	30	2	190	180	30	80	30	90	19	1	< 5
468928	52.35	15.01	8.92	0.123	5.31	5.64	2.50	1.07	1.073	0.12	5.72	97.83	28	2	194	170	32	90	40	110	19	2	< 5
468928A	67.55	11.58	6.67	0.091	2.11	3.79	2.75	1.96	0.670	0.18	1.16	98.52	12	1	126	190	13	40	20	60	15	1	< 5
468929	53.48	16.56	7.19	0.100	2.89	3.70	2.49	1.41	1.067	0.20	9.52	98.61	19	2	135	80	20	50	30	120	21	1	< 5
468930	55.70	16.00	8.26	0.117	3.70	4.45	2.55	1.29	1.260	0.21	6.40	99.94	26	2	174	90	24	50	30	80	20	2	< 5
468931	60.32	15.96	6.55	0.073	2.04	2.34	2.96	1.85	1.006	0.18	6.77	100.0	17	3	115	70	14	30	20	70	21	1	< 5
468932	54.68	15.38	9.29	0.110	3.26	4.07	2.34	1.49	1.624	0.27	6.23	98.75	27	3	197	80	23	50	30	90	20	1	< 5
468933	57.06	14.93	7.02	0.141	2.74	2.55	3.13	1.52	0.969	0.26	9.18	99.50	20	3	132	90	18	40	30	90	20	1	< 5
468934	58.66	16.09	6.34	0.074	2.15	2.60	2.71	1.88	1.067	0.18	6.96	98.72	18	3	110	70	15	40	20	80	21	1	< 5
468935	56.49	18.07	6.00	0.053	1.42	2.39	2.63	1.74	0.967	0.19	10.15	100.1	13	3	92	50	12	30	20	50	23	1	< 5
468937	54.72	16.42	7.52	0.104	4.45	4.12	2.50	1.29	0.932	0.11	7.50	99.67	23	2	151	150	27	80	30	100	20	1	< 5
468938	53.23	16.20	8.30	0.138	4.83	4.81	2.69	1.11	1.127	0.13	7.23	99.79	28	2	176	150	27	70	40	80	20	1	< 5

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468939	51.61	16.15	8.75	0.121	5.12	4.82	2.78	1.07	1.042	0.14	7.09	98.70	28	2	182	150	30	80	50	80	20	2	< 5
468940	51.81	16.31	8.90	0.125	5.40	5.01	2.70	1.05	1.041	0.14	7.20	99.68	29	2	184	150	32	80	50	70	19	1	< 5
468941	52.73	16.34	9.37	0.128	5.24	5.04	2.61	1.03	1.023	0.16	7.21	100.9	29	2	187	160	30	70	50	80	19	2	< 5
468942	51.92	16.02	8.90	0.136	5.07	4.86	2.58	1.02	1.004	0.14	7.69	99.32	28	2	180	150	31	70	50	70	20	2	< 5
468943	51.97	16.09	10.33	0.175	5.22	5.61	2.09	1.48	1.153	0.10	6.10	100.3	31	2	212	140	38	80	60	80	19	1	< 5
468944	52.71	16.10	8.56	0.105	4.74	4.94	2.38	0.99	0.958	0.17	7.57	99.23	26	2	175	140	27	70	50	60	19	2	< 5
468945	52.80	16.45	9.77	0.124	5.45	5.78	2.46	0.91	1.048	0.14	5.71	100.6	29	2	195	180	33	100	50	80	20	2	< 5
468946	51.71	16.46	8.84	0.115	4.59	5.30	2.43	1.06	1.118	0.14	7.35	99.11	28	2	182	110	32	60	40	70	20	2	< 5
468947	55.35	15.63	8.24	0.085	2.54	3.12	2.77	1.38	1.489	0.21	8.32	99.13	25	2	175	70	19	30	20	90	22	2	< 5
468948	55.98	15.92	7.75	0.098	2.74	3.25	3.09	1.28	1.302	0.25	8.62	100.3	22	3	151	80	21	40	30	90	21	1	< 5
468949	52.92	15.40	8.70	0.113	5.00	5.32	2.36	0.95	1.007	0.11	6.34	98.21	26	2	187	180	31	90	50	70	20	2	< 5
468950	52.06	16.07	10.01	0.140	5.26	5.96	2.11	1.22	1.159	0.08	6.28	100.3	30	2	232	130	41	80	80	80	20	2	< 5
468951	54.51	14.83	9.41	0.115	4.80	5.42	2.62	1.26	1.031	0.06	4.32	98.37	31	2	198	130	30	60	40	60	18	2	< 5
468952	53.59	16.07	9.25	0.121	5.31	5.64	2.51	1.15	0.967	0.14	5.56	100.3	30	2	198	150	34	80	60	80	19	2	< 5
468952A	25.88	10.53	49.70	0.166	1.70	1.73	0.22	0.13	3.118	1.39	1.46	96.03	72	6	363	540	13	70	60	380	46	< 1	35
468953	52.14	15.53	9.87	0.122	4.87	5.36	2.59	1.33	1.126	0.15	4.82	97.92	32	2	220	110	34	70	60	80	19	2	< 5
468954	50.50	16.68	9.46	0.127	6.08	7.21	2.13	0.82	0.782	0.04	5.57	99.39	31	1	189	170	39	90	70	60	18	1	< 5
468955	52.15	15.06	10.00	0.136	6.71	6.78	2.80	0.85	0.920	0.07	3.84	99.31	35	1	208	190	38	90	60	60	17	2	< 5
468956	53.80	15.97	8.39	0.095	4.64	4.62	2.16	1.22	1.053	0.06	5.90	97.91	24	2	168	140	29	70	40	70	18	2	< 5
468958	60.42	15.31	5.39	0.141	1.30	2.11	2.60	1.87	0.829	0.18	8.20	98.36	11	2	77	60	10	< 20	20	100	21	1	< 5
468762	51.53	15.91	11.18	0.191	5.21	5.47	2.21	1.62	1.213	0.13	6.22	100.9	31	2	216	140	40	80	60	140	19	1	< 5
468763	51.14	14.71	10.84	0.143	5.68	5.55	2.44	1.19	1.162	0.11	6.11	99.08	33	2	215	180	43	90	70	90	20	2	< 5

Results

Activation Laboratories Ltd.

Report: A22-18964

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468217	54	201	22	136	14	< 2	< 0.5	< 0.2	1	< 0.5	3.2	438	< 0.4	29.1	52.8	5.47	19.6	3.7	1.04	3.6	0.6	3.9	0.8
468218	47	232	26	147	22	< 2	< 0.5	< 0.2	1	< 0.5	2.9	579	< 0.4	49.0	86.9	8.58	29.0	5.1	1.21	4.4	0.7	4.6	0.9
468219	66	241	22	187	15	< 2	< 0.5	< 0.2	1	< 0.5	5.7	896	< 0.4	37.1	72.8	7.03	24.7	4.6	0.99	4.0	0.7	4.1	0.8
468220	57	201	23	203	19	< 2	< 0.5	< 0.2	1	< 0.5	5.3	595	< 0.4	37.2	66.7	6.93	26.4	4.7	1.08	3.8	0.7	4.2	0.8
468221	67	234	26	181	37	< 2	< 0.5	< 0.2	1	< 0.5	3.5	791	< 0.4	87.6	143	13.1	42.1	6.6	1.57	5.5	0.9	5.1	1.0
468222	53	188	23	165	12	< 2	< 0.5	< 0.2	1	0.6	3.0	470	< 0.4	32.2	60.5	6.01	21.8	4.3	0.96	4.0	0.7	4.4	0.9
468223	57	209	30	296	26	3	< 0.5	< 0.2	2	< 0.5	2.7	635	< 0.4	112	182	16.6	54.0	7.8	1.79	6.0	1.0	5.7	1.1
468224	66	212	28	249	20	< 2	< 0.5	< 0.2	1	< 0.5	2.7	679	< 0.4	46.9	83.5	8.37	28.8	5.3	1.33	4.8	0.8	4.8	1.0
468225	61	243	26	177	14	< 2	< 0.5	< 0.2	2	< 0.5	4.2	647	< 0.4	37.4	77.9	7.07	25.5	4.9	1.15	4.6	0.8	4.7	0.9
468226	68	251	28	221	20	2	< 0.5	< 0.2	2	< 0.5	4.7	689	< 0.4	47.3	96.1	8.89	32.5	5.7	1.14	5.0	0.8	5.2	1.0
468227	69	253	32	531	14	< 2	< 0.5	< 0.2	4	< 0.5	4.4	617	< 0.4	42.8	89.3	9.09	33.0	6.0	1.55	5.2	0.9	5.3	1.1
468228	57	240	24	244	17	< 2	< 0.5	< 0.2	2	< 0.5	3.6	623	< 0.4	41.4	75.1	7.56	26.4	4.6	1.11	4.1	0.7	4.3	0.9
468229	65	216	30	274	20	< 2	< 0.5	< 0.2	1	< 0.5	2.6	599	< 0.4	49.0	86.7	8.76	30.8	5.6	1.43	5.4	0.9	5.6	1.1
468229A	4	2013	464	299	790	80	3.8	2.2	25	1.7	< 0.5	1717	4.6	12100	15500	2550	10100	1510	318	638	55.3	181	20.0
468230	75	189	26	250	20	< 2	< 0.5	< 0.2	2	< 0.5	2.8	612	< 0.4	37.4	70.2	7.12	25.7	4.8	1.20	4.6	0.8	5.1	1.0
468231	102	256	27	268	40	2	< 0.5	< 0.2	2	< 0.5	3.5	1413	< 0.4	480	668	57.7	161	14.4	2.98	7.9	1.0	5.5	1.0
468232	66	286	33	264	34	< 2	< 0.5	< 0.2	1	< 0.5	4.2	792	< 0.4	66.2	122	12.4	44.1	7.7	1.73	6.7	1.1	6.6	1.3
468233	59	292	30	288	25	< 2	< 0.5	< 0.2	1	< 0.5	3.3	645	< 0.4	59.5	110	11.0	39.1	6.6	1.49	5.6	0.9	5.4	1.0
468234	53	220	26	231	18	< 2	< 0.5	< 0.2	2	< 0.5	3.2	537	< 0.4	35.9	69.5	7.12	26.1	4.8	1.11	4.4	0.8	4.7	0.9
468235	55	223	25	201	16	2	< 0.5	< 0.2	1	< 0.5	3.3	546	< 0.4	36.9	70.2	7.31	26.0	4.9	1.09	4.1	0.7	4.7	0.9
468236	54	237	34	404	24	< 2	< 0.5	< 0.2	19	< 0.5	3.5	621	< 0.4	49.1	98.8	10.6	39.2	7.3	1.63	6.5	1.1	6.4	1.3
468237	58	269	26	290	22	< 2	< 0.5	< 0.2	4	< 0.5	4.0	504	< 0.4	29.7	60.8	6.70	24.5	5.1	1.16	4.5	0.8	4.9	1.0
468238	51	238	24	220	18	< 2	< 0.5	< 0.2	2	< 0.5	3.2	507	< 0.4	32.1	62.7	6.43	23.6	4.6	1.02	4.1	0.7	4.4	0.9
468239	53	214	34	328	28	3	< 0.5	< 0.2	2	0.6	3.8	515	< 0.4	45.3	93.3	10.0	36.7	7.3	1.64	6.6	1.1	6.6	1.3
468240	93	235	28	305	19	< 2	< 0.5	< 0.2	2	< 0.5	4.8	939	< 0.4	51.7	101	10.2	36.1	6.1	1.07	5.1	0.8	5.1	1.0
468241	57	244	24	210	18	< 2	< 0.5	< 0.2	1	< 0.5	3.4	480	< 0.4	32.6	65.6	6.79	25.1	4.8	1.07	4.3	0.7	4.6	0.9
468242	52	254	26	217	19	< 2	< 0.5	< 0.2	1	< 0.5	3.1	503	< 0.4	32.2	64.2	6.64	25.7	5.0	1.13	4.5	0.7	4.4	0.9
468242A	13	583	92	544	1120	47	< 0.5	0.5	24	2.4	0.7	1017	2.6	2650	3500	466	1670	223	47.9	102	9.6	36.0	4.6
468243	63	193	36	304	19	2	< 0.5	< 0.2	1	< 0.5	2.3	850	< 0.4	74.9	114	11.5	39.3	6.5	1.60	6.1	1.0	5.9	1.2
468244	55	221	34	316	25	< 2	< 0.5	< 0.2	1	0.5	4.0	531	< 0.4	41.0	83.1	8.99	33.5	6.7	1.48	6.1	1.0	6.1	1.2
468245	86	218	29	269	33	< 2	< 0.5	< 0.2	1	< 0.5	3.6	1190	< 0.4	87.4	135	12.6	40.6	6.2	1.45	5.2	0.9	5.3	1.1
468246	65	174	42	391	16	< 2	< 0.5	< 0.2	2	0.5	3.1	472	< 0.4	33.6	73.8	8.11	32.1	7.3	1.73	7.3	1.2	7.7	1.5
468247	125	256	36	399	19	3	< 0.5	< 0.2	2	< 0.5	5.9	953	< 0.4	91.2	165	15.9	55.9	9.5	1.56	7.6	1.1	6.7	1.3
468248	104	212	30	389	27	3	< 0.5	< 0.2	1	< 0.5	4.3	913	< 0.4	154	246	22.9	74.7	11.0	1.70	8.0	1.1	6.0	1.1
468249	81	234	28	308	29	< 2	< 0.5	< 0.2	1	< 0.5	3.7	683	< 0.4	53.2	98.7	9.97	35.4	6.5	1.31	5.7	0.9	5.3	1.0
468250	84	225	25	352	28	< 2	< 0.5	< 0.2	1	< 0.5	3.8	747	< 0.4	51.5	92.1	9.29	33.5	5.8	1.46	5.3	0.8	4.7	0.9
468251	104	255	35	469	39	< 2	< 0.5	< 0.2	1	< 0.5	3.2	1171	< 0.4	165	256	23.3	74.4	10.3	2.10	7.9	1.1	6.7	1.3
468252 extra not on client list	78	279	27	265	14	2	< 0.5	< 0.2	1	< 0.5	4.9	798	< 0.4	41.8	80.9	8.58	31.9	6.2	1.05	5.2	0.8	4.9	1.0
468253	108	265	33	579	52	< 2	< 0.5	< 0.2	1	< 0.5	3.9	907	< 0.4	161	242	22.4	71.0	9.6	2.00	7.2	1.0	6.3	1.2
468254	56	188	28	257	33	< 2	< 0.5	< 0.2	1	< 0.5	2.6	709	< 0.4	50.7	91.1	9.13	33.1	5.8	1.31	5.1	0.8	5.3	1.1
468255	52	203	33	318	21	< 2	< 0.5	< 0.2	1	< 0.5	2.0	719	< 0.4	58.6	101	10.1	35.8	6.4	1.49	5.9	1.0	6.0	1.2
468256	45	185	23	169	16	< 2	< 0.5	< 0.2	1	< 0.5	2.7	505	< 0.4	35.6	63.2	6.39	23.2	4.4	1.12	4.2	0.7	4.4	0.9
468257	86	309	22	440	30	< 2	< 0.5	< 0.2	1	< 0.5	3.5	1147	< 0.4	101	164	15.4	50.2	7.3	1.83	5.3	0.8	4.4	0.8
468257A	6	968	178	455	1090	54	1.1	0.9	25	2.0	< 0.5	1200	3.3	4840	6440	950	3640	541	117	240	20.7	72.2	8.5
468258	126	224	32	593	27	< 2	< 0.5	< 0.2	1	< 0.5	3.5	943	< 0.4	61.1	118	12.5	45.4	7.9	1.58	6.2	0.9	5.8	1.2
468259	91	285	16	580	24	2	< 0.5	< 0.2	1	< 0.5	3.7	1636	< 0.4	69.9	121	11.1	36.5	5.2	1.66	3.8	0.5	3.0	0.6
468260	49	212	33	425	27	< 2	< 0.5	< 0.2	1	< 0.5	2.5	485	< 0.4	36.8	73.9	7.98	31.1	6.2	1.59	6.1	1.0	6.2	1.3
468261	49	250	22	178	22	< 2	< 0.5	< 0.2	1	< 0.5	3.1	617	< 0.4	38.2	69.6	7.12	25.5	4.6	1.13	3.9	0.7	4.0	0.8
468262	43	214	24	182	15	< 2	< 0.5	< 0.2	1	< 0.5	2.9	615	< 0.4	22.7	45.4	4.87	18.8	4.1	1.02	3.9	0.7	4.2	0.9

Results

Activation Laboratories Ltd.

Report: A22-18964

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468263	58	274	25	329	21	< 2	< 0.5	< 0.2	1	< 0.5	3.9	736	< 0.4	51.9	95.5	9.34	33.1	5.7	1.39	5.0	0.8	4.6	0.9
468263A	54	429	17	316	8	< 2	< 0.5	< 0.2	1	< 0.5	1.1	852	< 0.4	62.8	105	10.8	36.5	5.9	1.04	4.4	0.6	3.5	0.6
468264	111	259	41	382	23	< 2	< 0.5	< 0.2	1	< 0.5	4.9	811	< 0.4	40.4	86.2	9.68	36.6	7.7	1.47	7.1	1.2	7.4	1.5
468265	77	249	29	217	20	< 2	< 0.5	< 0.2	1	< 0.5	3.5	582	< 0.4	33.0	64.7	6.98	26.1	5.5	1.29	5.2	0.9	5.5	1.1
468266	83	298	24	330	22	< 2	< 0.5	< 0.2	1	< 0.5	5.0	966	< 0.4	38.5	78.8	8.08	29.8	5.5	1.34	4.8	0.8	4.7	0.9
468267	72	278	27	250	37	< 2	< 0.5	< 0.2	1	< 0.5	5.0	847	< 0.4	56.1	104	10.5	37.8	6.8	1.57	5.8	0.9	5.4	1.1
468268	49	203	29	334	22	< 2	< 0.5	< 0.2	1	< 0.5	3.1	468	< 0.4	33.1	67.2	7.31	27.2	5.6	1.35	5.3	0.9	5.6	1.2
468269	47	191	29	352	20	< 2	< 0.5	< 0.2	2	< 0.5	2.9	463	< 0.4	31.3	63.1	6.77	25.1	5.1	1.24	4.6	0.8	5.0	1.0
468270	80	251	26	222	28	3	< 0.5	< 0.2	1	< 0.5	5.0	546	< 0.4	36.0	73.0	7.68	29.3	5.7	1.40	5.0	0.8	5.0	1.0
468271	78	203	37	357	18	< 2	< 0.5	< 0.2	1	< 0.5	3.4	512	< 0.4	32.1	68.6	7.55	30.0	6.4	1.44	6.1	1.0	6.2	1.3
468272	117	236	40	471	20	< 2	< 0.5	< 0.2	1	< 0.5	4.8	851	< 0.4	44.2	97.8	10.1	36.8	7.1	1.24	6.6	1.1	7.2	1.6
468273	113	263	39	487	21	< 2	< 0.5	< 0.2	2	< 0.5	4.5	881	< 0.4	39.2	91.2	8.93	33.0	6.6	1.09	5.9	1.0	6.6	1.4
468274	46	181	22	121	13	2	< 0.5	< 0.2	1	0.5	3.9	474	< 0.4	28.5	52.9	5.33	19.3	3.8	0.93	3.5	0.6	3.9	0.8
468275	58	280	30	207	49	< 2	< 0.5	< 0.2	1	< 0.5	2.6	944	< 0.4	116	182	17.1	54.9	8.0	1.90	5.9	0.9	5.4	1.1
468276	63	256	32	176	18	3	< 0.5	< 0.2	1	< 0.5	5.0	741	< 0.4	33.5	73.0	7.34	28.0	5.5	1.44	5.2	0.8	5.3	1.1
468277	42	238	28	202	27	< 2	< 0.5	< 0.2	1	< 0.5	2.9	555	< 0.4	44.3	82.5	8.24	29.7	5.4	1.33	4.9	0.8	5.1	1.0
468278	64	208	27	229	16	< 2	< 0.5	< 0.2	1	< 0.5	3.6	616	< 0.4	23.9	51.4	5.65	21.8	4.6	1.05	4.4	0.8	4.8	1.0
468279	106	201	46	1119	30	4	< 0.5	< 0.2	2	< 0.5	4.1	1018	< 0.4	81.4	156	16.7	58.2	9.9	1.71	7.7	1.2	7.6	1.6
468280	156	230	57	581	29	2	< 0.5	< 0.2	2	< 0.5	5.7	978	< 0.4	63.5	129	14.6	53.0	9.8	1.48	8.6	1.5	9.5	2.0
468281	162	209	62	618	45	< 2	< 0.5	< 0.2	2	< 0.5	4.2	1578	< 0.4	64.4	86.7	14.7	53.1	9.9	1.52	8.8	1.6	10.3	2.2
468282	120	254	39	587	25	< 2	< 0.5	< 0.2	2	< 0.5	4.8	936	< 0.4	47.8	93.1	10.3	37.7	7.0	1.18	6.0	1.0	6.5	1.4
468283	136	252	44	495	20	2	< 0.5	< 0.2	2	< 0.5	6.0	900	< 0.4	44.5	92.3	10.4	37.4	7.5	1.11	6.8	1.2	7.3	1.5
468292A	79	309	60	427	645	28	< 0.5	0.4	16	3.5	3.7	843	1.5	1350	1810	243	813	108	23.1	50.5	5.1	20.4	2.9
468293	67	220	26	295	23	2	< 0.5	< 0.2	2	< 0.5	4.0	594	< 0.4	55.8	104	9.70	32.7	5.8	1.25	4.9	0.8	4.8	1.0
468294	57	203	28	250	16	< 2	< 0.5	< 0.2	2	< 0.5	2.8	569	< 0.4	41.2	76.9	7.78	27.5	5.3	1.22	5.1	0.9	5.1	1.0
468295	84	727	50	281	199	< 2	< 0.5	< 0.2	1	< 0.5	3.9	6052	< 0.4	1250	1700	151	423	37.2	7.25	18.9	2.2	10.6	1.9
468296	61	208	30	225	21	< 2	< 0.5	< 0.2	1	< 0.5	2.8	586	< 0.4	42.2	77.5	7.96	28.5	5.6	1.27	5.2	0.9	5.4	1.1
468297	87	198	30	279	16	3	< 0.5	< 0.2	2	< 0.5	3.4	647	< 0.4	31.2	66.7	7.16	27.3	5.9	1.30	5.3	0.9	5.3	1.1
468298	63	205	21	207	13	< 2	< 0.5	< 0.2	2	< 0.5	3.0	567	< 0.4	26.5	52.0	5.35	19.7	3.8	0.97	3.5	0.6	3.8	0.8
468299	71	231	20	209	14	< 2	< 0.5	< 0.2	2	< 0.5	3.7	691	< 0.4	26.5	52.2	5.26	19.1	3.7	0.88	3.4	0.6	3.4	0.7
468300	56	214	21	166	15	< 2	< 0.5	< 0.2	1	< 0.5	2.6	575	< 0.4	31.8	56.0	5.74	19.9	3.9	0.94	3.6	0.6	3.9	0.8
468771	84	235	32	440	20	2	< 0.5	< 0.2	2	< 0.5	4.4	707	< 0.4	56.6	113	10.5	36.9	6.4	1.33	5.6	0.9	5.8	1.2
468772	92	337	23	221	51	< 2	< 0.5	< 0.2	2	< 0.5	3.8	1342	< 0.4	202	301	25.8	78.5	8.7	1.84	5.7	0.8	4.5	0.9
468773	112	269	45	406	25	2	< 0.5	< 0.2	2	< 0.5	5.4	926	< 0.4	80.5	136	15.5	54.4	9.5	1.69	8.3	1.3	7.9	1.6
468774	94	235	18	145	17	< 2	< 0.5	< 0.2	1	< 0.5	3.7	751	< 0.4	32.5	61.1	6.40	22.7	4.0	0.92	3.6	0.6	3.5	0.7
468775	132	166	17	116	11	< 2	< 0.5	< 0.2	2	< 0.5	4.4	547	< 0.4	19.6	38.2	3.60	12.7	2.5	0.75	2.7	0.4	3.0	0.6
468776	76	215	20	208	20	< 2	< 0.5	< 0.2	1	< 0.5	3.4	613	< 0.4	42.2	71.3	7.19	24.4	4.3	1.02	3.8	0.6	3.7	0.8
468776A	< 2	4909	529	1731	3910	117	6.3	3.4	127	1.2	< 0.5	4436	16.2	23100	38100	3600	10600	1320	274	578	58.1	213	26.9
468777	72	228	20	182	40	< 2	< 0.5	< 0.2	2	< 0.5	3.6	1215	< 0.4	97.8	151	13.7	42.2	5.6	1.19	4.0	0.6	3.8	0.8
468778	50	222	28	303	28	2	< 0.5	< 0.2	1	< 0.5	2.0	563	< 0.4	89.0	144	13.3	43.5	6.6	1.43	5.4	0.9	5.5	1.1
468779	70	215	16	191	19	< 2	< 0.5	< 0.2	2	< 0.5	4.8	743	< 0.4	30.2	53.5	5.76	20.1	3.6	0.82	3.0	0.5	3.0	0.6
468780	42	168	44	318	17	< 2	< 0.5	< 0.2	1	< 0.5	1.5	954	< 0.4	111	158	16.0	52.4	8.3	1.86	8.0	1.3	7.9	1.6
468781	89	275	25	212	18	2	< 0.5	< 0.2	2	< 0.5	4.3	809	< 0.4	49.0	94.8	9.21	31.2	5.7	1.22	4.8	0.8	4.6	0.9
468782	114	252	41	394	23	2	< 0.5	< 0.2	2	< 0.5	4.9	1093	< 0.4	66.2	135	14.0	49.3	8.3	1.40	6.8	1.1	6.9	1.5
468783	115	252	41	382	22	< 2	< 0.5	< 0.2	2	< 0.5	4.7	1099	< 0.4	64.9	131	13.7	47.9	8.3	1.40	7.0	1.1	7.1	1.4
468784	119	244	42	401	23	2	< 0.5	< 0.2	2	< 0.5	4.5	1144	< 0.4	69.8	139	14.4	51.0	8.5	1.45	6.9	1.1	7.3	1.5
468785	80	208	27	241	22	< 2	< 0.5	< 0.2	2	< 0.5	3.4	580	< 0.4	29.1	57.8	6.11	22.6	4.5	1.09	4.2	0.7	4.7	1.0
468786	87	316	30	354	33	3	< 0.5	< 0.2	3	< 0.5	3.8	878	< 0.4	64.6	112	11.0	37.4	6.5	1.50	5.9	0.9	5.6	1.1
468787	63	489	23	189	62	< 2	< 0.5	< 0.2	1	< 0.5	3.1	3523	< 0.4	145	230	22.8	73.1	9.9	2.58	6.7	0.9	4.7	0.9
468788	88	325	31	348	33	< 2	< 0.5	< 0.2	2	< 0.5	3.9	872	< 0.4	64.5	109	10.8	37.4	6.3	1.47	5.5	0.9	5.7	1.1

Results

Activation Laboratories Ltd.

Report: A22-18964

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468788A	58	412	20	328	8	< 2	< 0.5	< 0.2	1	< 0.5	1.2	813	< 0.4	49.0	88.8	9.32	32.4	5.7	0.99	4.5	0.6	3.5	0.7
468789	91	208	26	246	19	2	< 0.5	< 0.2	2	< 0.5	3.5	715	< 0.4	42.3	77.0	7.70	27.5	5.0	1.28	4.7	0.8	4.8	1.0
468790	92	209	26	252	19	< 2	< 0.5	< 0.2	1	< 0.5	3.3	706	< 0.4	41.6	76.0	7.50	26.9	5.0	1.23	4.6	0.8	4.8	1.0
468791	109	234	46	399	25	< 2	< 0.5	< 0.2	2	< 0.5	2.8	1214	< 0.4	83.5	154	14.8	50.7	8.5	1.64	7.4	1.2	7.3	1.5
468792	99	354	23	376	27	< 2	< 0.5	< 0.2	2	< 0.5	3.9	1308	< 0.4	79.7	133	13.3	43.4	6.9	1.49	5.3	0.8	4.4	0.8
468793	88	248	25	305	20	2	< 0.5	< 0.2	2	< 0.5	5.1	910	< 0.4	43.6	82.3	8.48	30.1	5.5	1.12	4.6	0.7	4.6	0.9
468793A	7	770	131	517	1050	54	0.7	0.8	27	2.1	< 0.5	1064	3.0	3660	4920	698	2590	377	80.9	169	15.1	53.2	6.7
468794	84	270	22	195	45	< 2	< 0.5	< 0.2	1	< 0.5	4.6	1743	< 0.4	46.7	88.7	9.16	33.2	5.8	1.35	4.8	0.7	4.3	0.9
468795	98	332	42	432	30	< 2	< 0.5	< 0.2	2	< 0.5	3.5	1420	< 0.4	135	218	20.6	66.9	9.9	2.15	8.2	1.3	7.8	1.5
468796	70	369	23	251	23	2	< 0.5	< 0.2	1	22.0	3.5	701	< 0.4	38.4	70.9	7.22	25.6	4.8	1.14	4.4	0.7	4.2	0.9
468797	80	339	34	244	32	2	< 0.5	< 0.2	1	< 0.5	3.9	931	< 0.4	96.0	166	15.9	53.0	8.6	1.88	7.4	1.1	6.3	1.3
468798	77	273	28	309	20	2	< 0.5	< 0.2	2	< 0.5	4.2	885	< 0.4	42.1	79.7	8.30	29.6	5.7	1.21	5.0	0.8	4.9	1.0
468799	62	273	26	266	23	2	< 0.5	< 0.2	1	< 0.5	4.1	498	< 0.4	28.7	59.0	6.45	23.9	4.8	1.17	4.3	0.8	4.4	0.9
468800	68	176	38	319	15	4	< 0.5	< 0.2	2	< 0.5	3.4	455	< 0.4	33.2	71.9	8.02	31.9	6.8	1.64	7.2	1.2	7.3	1.5
468801	56	214	29	165	71	2	< 0.5	< 0.2	2	< 0.5	2.4	2825	< 0.4	250	340	29.6	85.7	9.3	1.83	6.3	0.9	5.7	1.1
468802	61	272	21	248	30	< 2	< 0.5	< 0.2	1	< 0.5	3.5	771	< 0.4	89.4	142	12.7	39.6	5.6	1.31	4.6	0.7	4.2	0.9
468803	141	204	16	501	23	3	< 0.5	< 0.2	2	< 0.5	4.7	1851	< 0.4	80.8	131	12.3	38.4	5.4	1.47	4.0	0.6	3.3	0.6
468804	62	213	26	226	30	3	< 0.5	< 0.2	2	< 0.5	2.3	1143	< 0.4	81.7	128	11.9	38.5	6.0	1.43	4.9	0.8	4.9	1.0
468805	57	265	35	189	32	< 2	< 0.5	< 0.2	2	< 0.5	2.1	879	< 0.4	72.2	116	11.2	38.0	6.6	1.80	6.4	1.1	6.8	1.4
468806	104	239	38	363	24	3	< 0.5	< 0.2	1	< 0.5	3.6	900	< 0.4	47.9	91.1	9.51	35.3	7.0	1.50	6.8	1.1	7.0	1.4
468807	90	257	24	377	32	2	< 0.5	< 0.2	2	< 0.5	3.7	811	< 0.4	134	194	17.0	52.1	7.0	1.57	5.2	0.8	4.8	1.0
468807A	6	742	135	525	912	50	0.5	0.7	23	2.5	< 0.5	1109	2.9	3580	4730	688	2470	355	76.6	162	14.3	51.3	6.3
468808	94	199	22	418	54	2	< 0.5	< 0.2	2	< 0.5	3.5	1029	< 0.4	101	156	13.9	44.1	6.0	1.49	4.5	0.7	4.0	0.8
468809	70	183	27	206	14	3	< 0.5	< 0.2	1	< 0.5	3.1	508	< 0.4	24.7	45.8	4.74	17.5	3.4	0.83	3.4	0.6	3.8	0.7
468810	68	219	19	201	32	2	< 0.5	< 0.2	2	< 0.5	3.4	756	< 0.4	84.8	131	11.7	37.9	5.2	1.22	3.8	0.6	3.7	0.7
468811	58	221	20	194	23	< 2	< 0.5	< 0.2	2	< 0.5	3.9	709	< 0.4	60.7	98.0	8.96	29.4	4.5	1.04	3.5	0.6	3.4	0.7
468812	108	260	24	405	19	4	< 0.5	< 0.2	1	< 0.5	4.6	888	< 0.4	32.1	62.2	6.38	23.0	4.5	1.29	4.3	0.7	4.4	0.9
468813	162	240	13	186	15	< 2	< 0.5	< 0.2	2	< 0.5	5.2	802	< 0.4	51.8	87.5	8.52	27.7	4.2	0.81	2.9	0.4	2.4	0.5
468814	104	152	37	336	63	2	< 0.5	< 0.2	2	0.6	7.2	606	< 0.4	131	196	18.3	58.3	8.5	2.00	6.9	1.1	6.8	1.4
468815	72	217	20	156	14	< 2	< 0.5	< 0.2	1	< 0.5	3.3	615	< 0.4	26.4	48.6	5.12	18.8	3.7	0.90	3.3	0.6	3.5	0.7
468816	78	203	20	194	14	< 2	< 0.5	< 0.2	2	< 0.5	3.5	561	< 0.4	40.0	68.3	6.72	23.0	4.1	0.98	3.6	0.6	3.8	0.8
468817	79	213	24	216	17	< 2	< 0.5	< 0.2	1	< 0.5	3.5	536	< 0.4	36.7	64.8	6.78	24.4	4.7	1.07	4.2	0.7	4.6	0.9
468818	96	258	25	302	22	3	< 0.5	< 0.2	2	< 0.5	4.3	720	< 0.4	66.7	111	10.7	36.4	5.8	1.32	4.9	0.8	4.6	0.9
468819	95	216	31	492	22	3	< 0.5	< 0.2	2	< 0.5	3.7	756	< 0.4	56.7	113	12.1	43.8	7.7	1.34	6.1	0.9	5.4	1.1
468820	96	233	23	327	18	3	< 0.5	< 0.2	2	0.5	5.3	729	< 0.4	53.7	97.5	9.93	34.7	5.9	1.05	4.7	0.7	4.2	0.8
468821	79	184	29	212	29	< 2	< 0.5	< 0.2	1	< 0.5	5.6	647	< 0.4	78.3	125	11.6	37.9	6.1	1.52	5.6	0.9	5.8	1.1
468822	95	210	29	298	25	3	< 0.5	< 0.2	1	< 0.5	4.4	617	< 0.4	41.0	73.8	7.53	29.4	5.5	1.28	5.1	0.8	5.3	1.1
468823A	75	305	59	474	698	25	< 0.5	0.3	16	3.4	3.6	864	1.4	1300	1760	237	793	107	22.2	48.6	5.0	19.9	2.7
468825	93	232	32	354	57	< 2	< 0.5	< 0.2	2	< 0.5	4.5	894	< 0.4	83.3	168	18.5	67.2	11.2	2.81	8.7	1.3	6.9	1.2
468826	75	274	28	283	19	2	< 0.5	< 0.2	2	< 0.5	4.4	654	< 0.4	41.5	85.9	8.68	32.5	6.2	1.29	5.4	0.8	5.0	1.0
468827	64	220	28	287	36	< 2	< 0.5	< 0.2	1	0.8	3.5	666	< 0.4	49.2	97.3	10.2	36.1	6.4	1.49	5.4	0.8	5.3	1.0
468828	68	240	23	233	17	< 2	< 0.5	< 0.2	2	< 0.5	4.1	488	< 0.4	28.1	57.5	6.12	23.3	4.6	1.12	4.4	0.7	4.3	0.9
468829	82	266	29	278	27	< 2	< 0.5	< 0.2	1	< 0.5	3.1	813	< 0.4	52.6	97.7	9.60	35.0	6.4	1.44	5.6	0.9	5.5	1.1
468830	60	261	22	222	23	< 2	< 0.5	< 0.2	2	< 0.5	3.9	710	< 0.4	42.4	77.9	8.15	29.1	5.2	1.20	4.1	0.7	4.2	0.8
468831	59	204	27	216	20	< 2	< 0.5	< 0.2	2	1.5	3.3	505	< 0.4	39.4	72.3	7.68	27.8	5.3	1.25	5.1	0.8	5.1	1.0
468832	50	195	27	239	31	< 2	< 0.5	< 0.2	1	< 0.5	2.5	641	< 0.4	61.4	101	9.89	33.5	5.5	1.31	5.1	0.8	5.1	1.0
468833	70	248	17	183	15	2	< 0.5	< 0.2	2	< 0.5	4.7	501	< 0.4	22.5	46.6	4.88	17.9	3.6	0.88	3.3	0.6	3.4	0.7
468834	56	224	24	283	17	4	< 0.5	< 0.2	2	< 0.5	3.3	576	< 0.4	43.6	76.5	7.49	26.3	4.8	1.15	4.3	0.7	4.7	0.9
468834A	55	416	18	372	9	18	< 0.5	< 0.2	1	< 0.5	1.1	802	< 0.4	50.0	88.6	9.49	33.1	5.5	1.00	4.5	0.6	3.7	0.7
468835	57	188	23	220	21	2	< 0.5	< 0.2	6	< 0.5	3.1	600	< 0.4	35.4	67.3	6.82	24.5	4.6	1.14	4.2	0.7	4.4	0.9

Results

Activation Laboratories Ltd.

Report: A22-18964

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	2	2	4	1		0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468836	63	226	23	215	21	3	< 0.5	< 0.2	2	< 0.5	3.7	544	< 0.4	37.6	67.4	6.76	24.6	4.4	1.10	4.3	0.7	4.5	0.9
468837	66	198	27	226	16	3	< 0.5	< 0.2	2	< 0.5	3.5	492	< 0.4	32.7	63.4	6.65	24.8	4.7	1.11	4.6	0.8	4.9	1.0
468838	65	201	26	205	16	2	< 0.5	< 0.2	1	< 0.5	3.5	503	< 0.4	31.5	60.9	6.44	23.9	4.6	1.09	4.5	0.8	4.9	1.0
468839	68	195	27	243	19	3	< 0.5	< 0.2	1	< 0.5	3.6	501	< 0.4	33.6	64.1	6.83	24.3	4.9	1.11	4.7	0.8	5.0	1.0
468840	54	235	34	346	28	4	< 0.5	< 0.2	1	< 0.5	3.5	592	< 0.4	50.5	101	10.6	38.0	7.1	1.67	6.7	1.1	6.5	1.3
468841	52	220	35	333	28	3	< 0.5	< 0.2	1	0.6	3.7	507	< 0.4	45.2	91.2	9.82	36.2	7.0	1.68	6.8	1.2	6.9	1.3
468842	61	259	25	264	22	3	< 0.5	< 0.2	2	< 0.5	4.1	497	< 0.4	30.6	61.7	6.70	25.4	4.9	1.28	4.6	0.7	4.7	0.9
468843	91	419	33	419	37	5	< 0.5	< 0.2	1	< 0.5	3.9	942	< 0.4	63.3	131	13.9	50.9	9.0	1.94	7.4	1.1	6.3	1.2
468844	92	420	34	390	38	3	< 0.5	< 0.2	1	< 0.5	3.9	940	< 0.4	65.3	135	14.1	52.7	9.4	2.03	7.3	1.1	6.5	1.2
468845	68	201	28	225	16	2	< 0.5	< 0.2	2	< 0.5	3.8	513	< 0.4	34.5	65.9	7.02	26.0	5.2	1.13	4.7	0.8	5.1	1.0
468900A	12	580	91	504	1010	45	< 0.5	0.6	23	2.3	0.7	1007	2.7	2510	3360	453	1570	215	45.3	98.8	9.6	34.6	4.3
468901	65	245	28	179	47	4	< 0.5	< 0.2	2	< 0.5	3.4	2081	< 0.4	167	236	21.4	64.3	8.3	1.71	6.1	0.9	5.3	1.0
468902	115	247	39	337	16	4	< 0.5	< 0.2	2	< 0.5	4.8	875	< 0.4	39.2	91.5	9.06	32.5	6.3	1.06	5.8	1.0	6.6	1.3
468903	114	269	38	487	18	3	< 0.5	< 0.2	2	< 0.5	4.7	888	< 0.4	39.6	91.7	8.98	33.3	6.8	1.03	5.9	1.0	6.7	1.4
468904	114	243	42	490	18	4	< 0.5	< 0.2	2	< 0.5	4.9	880	< 0.4	43.3	95.2	9.54	34.7	7.2	1.14	6.4	1.0	6.8	1.4
468905	87	218	42	563	21	3	< 0.5	< 0.2	3	< 0.5	4.2	754	< 0.4	54.4	104	11.5	40.3	7.4	1.36	6.4	1.1	7.1	1.5
468906	79	265	35	376	20	4	< 0.5	< 0.2	2	< 0.5	5.6	939	< 0.4	48.2	98.8	10.3	38.3	7.5	1.60	6.8	1.1	6.6	1.3
468907	37	229	29	284	25	4	< 0.5	< 0.2	1	< 0.5	3.3	547	< 0.4	37.6	73.1	7.47	27.1	5.2	1.29	4.9	0.8	5.3	1.1
468908	66	195	19	129	15	2	< 0.5	< 0.2	2	< 0.5	4.8	630	< 0.4	26.1	48.2	5.08	17.9	3.5	0.84	3.4	0.6	3.5	0.7
468909	61	240	19	171	14	3	< 0.5	< 0.2	2	< 0.5	5.4	641	< 0.4	24.3	50.7	5.15	18.8	3.7	0.92	3.4	0.6	3.6	0.7
468910	37	289	29	264	32	3	< 0.5	< 0.2	1	0.5	4.0	943	< 0.4	155	231	20.9	64.0	7.8	1.80	6.0	0.9	5.2	1.0
468911	76	235	32	284	35	< 2	< 0.5	< 0.2	1	0.5	6.3	898	< 0.4	321	453	39.4	117	12.8	2.62	8.4	1.2	6.2	1.2
468912	53	205	23	214	12	3	< 0.5	< 0.2	1	< 0.5	4.4	632	< 0.4	26.6	56.0	5.41	20.7	4.2	1.05	4.1	0.7	4.2	0.9
468913	90	218	32	336	16	4	< 0.5	< 0.2	1	< 0.5	3.7	538	< 0.4	34.3	74.4	7.99	30.9	6.2	1.37	5.9	1.0	5.8	1.2
468914	81	286	22	276	20	3	< 0.5	< 0.2	2	< 0.5	4.6	1151	< 0.4	40.4	76.2	8.02	29.0	5.3	1.26	4.4	0.7	4.2	0.8
468915	76	261	30	246	19	< 2	0.6	< 0.2	2	< 0.5	4.4	724	< 0.4	32.9	68.5	7.48	28.0	5.9	1.24	5.5	0.9	5.2	1.1
468916	68	260	33	432	21	4	< 0.5	< 0.2	2	< 0.5	3.6	768	< 0.4	46.6	90.5	9.55	34.9	6.9	1.52	6.1	1.0	5.9	1.2
468917	56	284	35	467	31	< 2	< 0.5	< 0.2	1	< 0.5	2.8	897	< 0.4	61.6	115	11.7	42.7	7.7	1.69	6.8	1.1	6.4	1.3
468918	72	289	24	222	40	3	< 0.5	< 0.2	2	< 0.5	5.0	1094	< 0.4	56.7	106	10.7	37.3	6.4	1.41	5.0	0.8	4.7	0.9
468919	65	282	25	340	33	2	< 0.5	< 0.2	2	< 0.5	3.6	858	< 0.4	56.1	101	10.3	36.2	6.6	1.48	5.5	0.9	5.0	1.0
468920	48	320	31	194	38	2	< 0.5	< 0.2	1	< 0.5	2.2	851	< 0.4	74.1	128	12.5	43.3	7.1	1.71	6.1	1.0	5.9	1.2
468921	70	283	33	184	50	< 2	< 0.5	< 0.2	1	< 0.5	2.6	844	< 0.4	53.9	108	11.7	43.0	8.1	1.90	6.8	1.0	6.3	1.2
468922	106	178	31	286	15	3	< 0.5	< 0.2	1	< 0.5	4.0	534	< 0.4	30.8	65.7	7.21	27.4	5.8	1.21	5.6	0.9	5.5	1.1
468923	80	422	22	133	56	< 2	< 0.5	< 0.2	1	< 0.5	2.9	1189	< 0.4	83.6	146	14.9	50.8	8.4	2.09	6.0	0.9	4.5	0.9
468924	64	212	25	262	15	2	< 0.5	< 0.2	2	< 0.5	3.7	614	< 0.4	27.0	55.3	6.07	23.2	4.7	1.13	4.6	0.8	4.6	0.9
468925	64	255	23	224	16	< 2	< 0.5	< 0.2	2	< 0.5	3.7	557	< 0.4	30.9	59.3	6.35	23.5	4.7	1.06	4.0	0.7	4.2	0.8
468926	77	269	30	306	51	< 2	< 0.5	< 0.2	1	< 0.5	3.3	1236	< 0.4	193	287	25.3	75.9	9.5	1.84	7.0	1.0	5.9	1.1
468927	48	218	31	300	17	< 2	< 0.5	< 0.2	1	< 0.5	2.8	531	< 0.4	41.2	78.0	8.24	30.3	5.8	1.32	5.5	0.9	5.4	1.1
468928	62	224	31	205	19	2	< 0.5	< 0.2	2	< 0.5	3.4	660	< 0.4	46.3	86.5	9.11	33.0	6.5	1.41	5.9	0.9	5.8	1.1
468928A	57	425	21	350	8	3	< 0.5	< 0.2	2	< 0.5	1.1	845	< 0.4	54.6	97.3	10.3	36.6	6.3	1.01	4.9	0.7	4.0	0.7
468929	70	268	25	306	17	3	< 0.5	< 0.2	2	< 0.5	4.1	672	< 0.4	29.7	60.4	6.52	24.7	5.1	1.19	4.6	0.8	4.4	0.9
468930	61	227	33	396	22	2	< 0.5	< 0.2	2	< 0.5	3.4	567	< 0.4	37.4	76.4	8.32	32.1	6.6	1.54	6.1	1.0	5.9	1.2
468931	102	240	39	573	27	4	< 0.5	< 0.2	2	< 0.5	4.2	1243	< 0.4	87.2	162	17.0	58.3	9.6	1.72	7.5	1.2	6.8	1.4
468932	84	231	44	566	24	2	< 0.5	< 0.2	2	< 0.5	3.6	687	< 0.4	44.2	92.4	10.3	39.8	8.1	1.85	7.9	1.3	7.9	1.6
468933	97	253	31	326	31	4	< 0.5	< 0.2	2	< 0.5	4.2	1466	< 0.4	67.5	133	13.7	47.9	8.3	1.71	6.4	1.0	6.1	1.2
468934	117	257	39	544	26	2	< 0.5	< 0.2	2	< 0.5	5.5	904	< 0.4	46.4	98.0	10.8	39.8	8.0	1.39	7.1	1.1	6.6	1.4
468935	96	286	39	381	21	4	< 0.5	< 0.2	2	< 0.5	5.2	1171	< 0.4	37.0	85.6	8.87	33.6	7.3	1.20	6.4	1.1	6.5	1.3
468937	54	235	23	228	18	2	< 0.5	< 0.2	2	< 0.5	4.1	635	< 0.4	35.0	66.3	6.83	24.6	4.6	1.06	4.2	0.7	4.2	0.8
468938	87	273	30	298	28	3	< 0.5	< 0.2	1	< 0.5	5.0	607	< 0.4	42.3	88.3	9.36	34.4	6.9	1.40	5.9	0.9	5.5	1.1
468939	84	255	27	241	28	3	< 0.5	< 0.2	1	< 0.5	5.2	576	< 0.4	36.6	74.2	7.88	29.2	5.8	1.37	5.2	0.9	5.1	1.0

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468940	79	248	28	235	28	2	< 0.5	< 0.2	3	< 0.5	5.0	577	< 0.4	34.2	71.6	7.54	27.3	5.7	1.30	5.1	0.8	5.0	1.0
468941	75	244	29	225	26	4	< 0.5	< 0.2	1	< 0.5	4.8	558	< 0.4	33.8	70.8	7.35	27.6	5.4	1.40	4.6	0.8	4.9	1.0
468942	79	244	27	213	27	2	< 0.5	< 0.2	2	< 0.5	5.1	558	< 0.4	36.0	74.3	7.73	28.8	5.7	1.42	4.9	0.8	5.0	1.0
468943	92	202	25	226	18	2	< 0.5	< 0.2	1	< 0.5	3.4	668	< 0.4	37.0	67.7	6.78	24.7	4.6	1.21	4.2	0.7	4.6	0.9
468944	49	244	25	201	17	3	< 0.5	< 0.2	1	< 0.5	2.9	482	< 0.4	30.0	62.0	6.36	23.5	4.6	1.04	4.1	0.7	4.3	0.9
468945	48	235	25	222	20	4	< 0.5	< 0.2	2	< 0.5	3.2	506	< 0.4	32.2	61.5	6.35	23.2	4.4	1.15	3.9	0.7	4.3	0.9
468946	48	195	29	327	20	2	< 0.5	< 0.2	2	< 0.5	3.0	481	< 0.4	33.1	68.2	7.30	27.4	5.5	1.31	5.0	0.8	5.5	1.1
468947	74	214	45	491	25	2	< 0.5	< 0.2	2	< 0.5	3.9	605	< 0.4	51.4	107	11.9	46.3	9.6	2.00	8.1	1.3	8.4	1.6
468948	69	259	32	434	38	3	< 0.5	< 0.2	2	< 0.5	3.9	725	< 0.4	40.0	80.9	9.34	37.3	7.4	1.74	6.2	1.0	5.7	1.1
468949	52	224	22	214	18	4	< 0.5	< 0.2	1	< 0.5	3.2	513	< 0.4	34.2	65.4	6.83	26.1	4.8	1.07	4.3	0.7	4.4	0.9
468950	80	176	27	179	18	2	< 0.5	< 0.2	2	< 0.5	3.6	669	< 0.4	34.3	65.9	7.09	27.2	5.3	1.35	5.0	0.9	5.4	1.1
468951	62	225	25	229	23	3	< 0.5	< 0.2	1	< 0.5	2.3	720	< 0.4	39.2	73.3	7.51	26.8	5.2	1.36	4.7	0.8	4.9	1.0
468952	61	207	23	196	16	< 2	< 0.5	< 0.2	2	< 0.5	3.0	606	< 0.4	29.0	55.4	5.80	21.6	4.3	1.11	4.1	0.7	4.6	0.9
468952A	6	956	167	367	898	53	1.0	0.8	23	2.1	< 0.5	1212	3.2	4860	6480	968	3680	545	119	231	20.1	71.6	8.4
468953	68	343	25	216	40	< 2	< 0.5	< 0.2	1	< 0.5	3.0	1275	< 0.4	99.7	156	14.5	47.5	7.1	1.71	5.5	0.9	5.2	1.0
468954	49	208	17	99	11	2	< 0.5	< 0.2	1	< 0.5	1.8	527	< 0.4	23.2	42.0	4.36	16.2	3.4	0.94	3.0	0.5	3.5	0.7
468955	49	257	21	140	26	3	< 0.5	< 0.2	1	< 0.5	1.7	663	< 0.4	67.9	112	11.0	36.6	5.8	1.38	4.3	0.6	4.0	0.8
468956	84	244	24	243	19	2	< 0.5	< 0.2	2	< 0.5	3.3	627	< 0.4	35.9	65.4	6.77	24.1	4.6	1.01	3.8	0.6	4.0	0.8
468958	113	272	36	412	20	4	< 0.5	< 0.2	2	< 0.5	4.9	776	< 0.4	37.9	77.5	8.36	31.3	6.0	1.00	5.1	0.9	5.8	1.2
468762	95	219	26	255	19	3	< 0.5	< 0.2	1	< 0.5	3.5	713	< 0.4	41.5	76.3	7.73	27.2	5.2	1.30	4.7	0.8	4.9	1.0
468763	66	334	30	268	32	3	< 0.5	< 0.2	1	< 0.5	3.5	1142	< 0.4	88.4	153	14.8	51.0	8.3	1.77	6.7	1.0	5.8	1.1

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468217	2.4	0.37	2.4	0.41	3.7	0.5	5	0.2	7	4.7	1.1
468218	2.7	0.39	2.5	0.41	3.9	0.5	1	0.2	10	7.4	1.2
468219	2.4	0.36	2.3	0.36	5.2	0.6	1	0.3	9	7.1	1.5
468220	2.4	0.40	2.7	0.43	5.6	0.7	8	0.2	7	6.8	1.5
468221	2.8	0.41	2.7	0.46	4.8	0.7	1	0.3	10	9.2	1.6
468222	2.7	0.40	2.5	0.39	4.5	0.6	2	0.3	9	7.4	1.4
468223	3.3	0.47	3.0	0.49	8.0	0.8	7	0.2	10	8.7	1.5
468224	2.8	0.43	2.8	0.48	6.4	0.7	< 1	0.2	9	7.1	1.4
468225	2.8	0.43	2.9	0.49	4.9	0.7	1	0.4	14	8.3	2.8
468226	3.1	0.44	3.1	0.52	6.1	0.8	1	0.3	13	8.5	2.3
468227	3.4	0.54	3.7	0.65	14.2	0.8	< 1	0.3	5	6.9	1.2
468228	2.5	0.38	2.5	0.41	6.5	0.7	1	0.3	10	7.4	1.7
468229	3.2	0.49	3.2	0.50	7.6	0.7	4	0.3	8	7.0	1.3
468229A	37.4	3.59	16.7	2.10	6.1	11.0	1	0.2	148	520	18.9
468230	3.0	0.43	3.0	0.47	7.0	0.7	< 1	0.3	7	6.8	1.2
468231	3.0	0.41	2.8	0.44	7.4	0.9	1	0.4	10	13.5	1.6
468232	3.7	0.54	3.6	0.58	6.9	0.9	3	0.3	9	7.7	1.5
468233	3.1	0.47	3.1	0.54	8.0	0.9	< 1	0.2	< 5	7.6	1.1
468234	2.8	0.41	2.8	0.48	6.3	0.7	3	0.2	9	6.6	1.4
468235	2.7	0.41	2.7	0.43	5.5	0.7	1	0.2	10	6.9	1.4
468236	3.6	0.54	3.6	0.60	10.7	0.9	2	0.2	8	11.9	1.8
468237	2.8	0.39	2.6	0.45	7.8	0.9	2	0.3	10	9.6	2.2
468238	2.7	0.38	2.7	0.48	5.8	0.8	3	0.2	10	7.0	1.5
468239	3.8	0.56	3.7	0.62	9.2	0.8	3	0.3	11	9.8	2.0
468240	3.1	0.44	3.3	0.56	8.5	0.9	3	0.4	13	11.1	2.7
468241	2.7	0.39	2.6	0.47	5.8	0.8	2	0.2	10	8.3	1.8
468242	2.8	0.42	2.8	0.45	5.6	0.9	2	0.2	6	8.1	1.8
468242A	9.2	0.87	4.4	0.61	12.0	22.4	3	0.1	103	223	4.9
468243	3.7	0.52	3.5	0.56	7.7	0.6	1	0.3	6	7.3	1.3
468244	3.5	0.54	3.6	0.57	7.9	0.8	1	0.3	7	10.0	2.0
468245	3.2	0.45	3.1	0.50	6.8	0.7	< 1	0.3	5	8.3	1.4
468246	4.6	0.67	4.4	0.74	9.9	0.9	< 1	0.3	8	6.7	2.0
468247	4.0	0.60	4.1	0.64	10.8	1.1	11	0.6	13	19.3	3.1
468248	3.3	0.49	3.3	0.58	10.0	0.9	5	0.5	13	20.7	2.6
468249	2.9	0.42	2.8	0.46	7.8	0.9	6	0.3	11	9.7	1.9
468250	2.7	0.40	2.7	0.42	8.9	0.9	1	0.3	9	6.7	1.7
468251	3.8	0.56	3.9	0.65	11.6	1.1	8	0.4	7	12.6	2.1
468252 extra not on client list	3.0	0.45	3.0	0.50	7.3	0.8	2	0.4	14	12.5	2.6
468253	3.7	0.54	3.8	0.65	14.6	1.4	2	0.4	7	13.6	2.4
468254	3.1	0.46	3.0	0.48	6.4	0.7	< 1	0.2	5	6.3	1.2
468255	3.6	0.52	3.4	0.54	8.0	0.7	< 1	0.2	< 5	6.1	1.2
468256	2.6	0.37	2.6	0.40	4.6	0.6	1	0.2	7	4.7	1.1
468257	2.5	0.36	2.4	0.40	11.6	1.3	2	0.3	10	11.4	2.1
468257A	16.8	1.50	6.9	0.91	10.1	19.0	3	< 0.1	118	304	8.2
468258	4.1	0.63	4.7	0.78	16.4	1.5	2	0.5	10	19.0	2.7
468259	2.0	0.32	2.2	0.41	14.9	1.1	1	0.4	10	11.7	2.4
468260	3.9	0.57	4.0	0.64	11.1	1.0	1	0.2	6	7.9	1.6
468261	2.5	0.35	2.4	0.40	4.6	0.6	1	0.2	6	7.7	1.5
468262	2.6	0.37	2.6	0.42	4.9	0.6	1	0.2	6	4.5	1.1

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468263	2.8	0.41	2.9	0.47	8.6	0.9	< 1	0.3	9	7.9	1.8
468263A	1.9	0.26	1.9	0.28	7.6	0.5	< 1	0.3	15	20.1	2.2
468264	4.4	0.64	4.3	0.68	9.9	1.1	1	0.4	9	10.2	2.5
468265	3.3	0.50	3.2	0.52	5.6	0.8	1	0.3	7	5.8	1.1
468266	2.7	0.42	2.7	0.45	8.9	1.1	2	0.4	14	13.8	2.5
468267	3.2	0.46	3.2	0.49	6.9	1.0	2	0.3	10	8.9	2.1
468268	3.5	0.50	3.4	0.57	9.2	0.9	1	0.2	7	9.8	1.9
468269	3.0	0.46	3.0	0.47	8.1	0.8	2	0.2	7	8.5	1.7
468270	2.9	0.42	2.8	0.45	5.6	0.9	< 1	0.3	6	10.9	2.0
468271	3.8	0.55	3.7	0.61	8.7	0.9	2	0.3	6	6.2	1.5
468272	4.7	0.70	4.7	0.77	12.6	1.3	1	0.6	16	16.6	4.0
468273	4.4	0.66	4.5	0.71	12.9	1.2	2	0.6	16	15.8	3.8
468274	2.4	0.37	2.4	0.39	3.1	0.4	1	0.2	8	4.7	1.2
468275	3.1	0.46	2.9	0.47	5.2	0.6	< 1	0.2	< 5	9.9	1.2
468276	3.2	0.48	3.2	0.56	4.3	0.7	2	0.4	13	9.0	3.6
468277	3.0	0.44	2.9	0.46	5.2	0.6	1	0.2	7	7.7	1.6
468278	2.8	0.44	2.8	0.47	5.8	0.7	5	0.3	10	6.9	1.7
468279	4.8	0.73	5.2	0.86	26.8	1.3	1	0.4	10	18.0	3.1
468280	6.2	0.92	6.1	0.98	15.1	1.8	1	0.7	14	30.6	4.3
468281	6.8	0.98	6.6	1.04	16.6	1.4	1	0.7	18	27.8	4.4
468282	4.1	0.61	4.3	0.70	15.4	1.3	1	0.5	11	20.4	3.5
468283	4.8	0.71	5.0	0.82	14.1	1.4	2	0.6	23	15.7	3.7
468292A	6.3	0.70	3.8	0.57	11.3	14.4	121	0.4	72	123	4.3
468293	2.9	0.43	2.9	0.52	8.3	0.9	2	0.3	12	9.4	2.1
468294	3.1	0.47	3.1	0.54	6.6	0.8	2	0.2	9	6.7	1.4
468295	5.1	0.67	4.3	0.68	6.9	1.7	1	0.4	9	21.6	2.5
468296	3.3	0.47	3.2	0.53	6.5	0.8	4	0.3	6	6.1	1.1
468297	3.2	0.47	3.2	0.57	7.3	0.9	1	0.3	7	6.9	1.4
468298	2.4	0.35	2.2	0.37	5.6	0.6	2	0.2	20	6.4	1.3
468299	2.1	0.32	2.1	0.36	5.4	0.7	2	0.3	13	7.5	1.5
468300	2.4	0.35	2.3	0.38	4.4	0.6	2	0.2	8	5.7	1.1
468771	3.6	0.54	3.7	0.63	11.8	1.0	2	0.4	16	12.5	3.4
468772	2.5	0.39	2.5	0.40	5.9	1.1	2	0.3	10	11.5	1.7
468773	4.6	0.69	4.6	0.72	10.7	1.2	2	0.5	16	13.4	7.4
468774	2.1	0.31	2.0	0.33	4.1	0.7	2	0.3	10	6.0	1.3
468775	1.9	0.28	1.9	0.32	3.4	0.5	1	0.4	7	4.7	0.9
468776	2.3	0.36	2.3	0.39	5.7	0.8	2	0.3	9	6.5	1.5
468776A	47.6	4.31	19.4	2.46	35.6	63.5	6	< 0.1	502	843	14.3
468777	2.2	0.33	2.2	0.36	4.9	0.8	18	0.3	9	8.1	1.6
468778	3.2	0.46	3.0	0.51	8.5	0.8	3	0.2	5	7.1	1.2
468779	1.8	0.26	1.8	0.29	5.1	0.7	2	0.3	12	6.4	1.7
468780	4.7	0.67	4.6	0.74	8.7	0.6	< 1	0.2	6	7.3	1.1
468781	2.7	0.40	2.6	0.44	5.8	0.8	1	0.4	13	9.8	2.7
468782	4.4	0.67	4.5	0.73	10.8	1.2	2	0.5	15	14.0	3.5
468783	4.2	0.64	4.3	0.69	10.4	1.1	1	0.4	14	13.8	3.3
468784	4.5	0.68	4.6	0.70	10.4	1.2	2	0.5	14	14.1	3.5
468785	3.0	0.44	3.0	0.51	6.8	0.8	2	0.3	7	8.4	1.3
468786	3.3	0.50	3.3	0.59	9.6	1.2	5	0.3	7	9.7	2.1
468787	2.4	0.34	2.1	0.35	4.8	1.2	3	0.3	8	10.1	1.5
468788	3.4	0.51	3.4	0.57	9.4	1.3	4	0.3	7	9.7	2.2

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468788A	2.0	0.30	2.0	0.33	8.2	0.5	< 1	0.3	20	19.3	2.1
468789	3.0	0.46	3.0	0.48	6.7	0.7	2	0.3	9	6.8	1.3
468790	2.9	0.43	3.0	0.50	7.0	0.7	1	0.4	9	6.8	1.3
468791	4.8	0.73	4.6	0.74	10.8	0.9	1	0.4	9	11.4	2.2
468792	2.4	0.35	2.3	0.39	9.8	1.0	15	0.4	11	11.3	1.7
468793	2.6	0.38	2.5	0.45	8.3	1.0	3	0.4	13	10.1	2.3
468793A	13.2	1.20	5.9	0.78	11.4	20.1	3	< 0.1	127	263	6.3
468794	2.4	0.34	2.3	0.39	5.2	0.8	2	0.3	7	7.3	1.1
468795	4.5	0.67	4.4	0.73	12.1	1.1	9	0.4	10	9.8	1.6
468796	2.6	0.38	2.7	0.42	6.7	0.8	2	0.3	6	4.2	0.9
468797	3.7	0.53	3.6	0.60	6.5	0.9	1	0.3	7	10.0	1.6
468798	2.9	0.44	3.0	0.50	8.5	1.0	1	0.3	11	7.3	1.8
468799	2.7	0.41	2.7	0.46	7.5	0.9	2	0.3	10	9.5	2.1
468800	4.3	0.64	4.2	0.65	8.7	0.9	< 1	0.3	12	6.9	2.0
468801	3.1	0.44	3.1	0.46	4.3	0.5	1	0.3	< 5	8.2	0.9
468802	2.6	0.39	2.6	0.42	6.9	0.8	2	0.3	8	8.1	1.6
468803	1.8	0.27	1.9	0.33	12.6	1.1	2	0.5	12	7.2	1.8
468804	3.1	0.43	2.9	0.43	6.1	0.6	5	0.2	5	5.2	1.0
468805	3.8	0.58	3.8	0.58	5.4	0.4	< 1	0.2	6	5.0	0.8
468806	3.9	0.57	3.7	0.62	9.1	1.0	4	0.4	8	5.9	1.7
468807	2.8	0.42	2.8	0.44	9.3	0.9	2	0.4	11	6.8	1.6
468807A	11.6	1.08	5.4	0.71	10.1	17.8	3	< 0.1	115	245	6.1
468808	2.4	0.37	2.5	0.40	10.5	0.8	2	0.3	8	6.7	1.4
468809	2.2	0.32	2.1	0.33	4.7	0.6	2	0.3	9	4.6	1.1
468810	2.1	0.31	2.1	0.31	5.2	0.7	2	0.3	10	7.1	1.4
468811	2.1	0.30	2.0	0.32	5.0	0.7	2	0.3	11	6.3	1.5
468812	2.6	0.39	2.6	0.42	10.1	1.0	34	0.4	11	8.9	2.0
468813	1.3	0.19	1.3	0.20	4.8	1.1	2	0.7	21	17.9	2.9
468814	4.1	0.61	4.1	0.64	9.0	0.9	9	0.4	10	8.9	1.4
468815	2.2	0.33	2.2	0.35	4.4	0.6	< 1	0.3	10	4.8	1.1
468816	2.3	0.35	2.3	0.36	5.3	0.6	< 1	0.2	11	5.8	1.3
468817	2.6	0.40	2.7	0.42	5.7	0.8	1	0.3	10	6.0	1.3
468818	2.7	0.40	2.7	0.45	7.8	0.9	2	0.3	11	10.2	1.6
468819	3.5	0.53	3.8	0.59	12.0	1.0	3	0.4	11	14.5	2.0
468820	2.5	0.38	2.6	0.39	8.4	1.0	2	0.4	13	13.5	2.3
468821	3.4	0.52	3.3	0.52	6.1	0.6	< 1	0.3	6	7.8	1.1
468822	3.0	0.48	3.4	0.50	7.7	0.8	1	0.2	8	7.9	1.5
468823A	6.2	0.65	3.7	0.50	10.7	13.4	5	0.4	66	117	4.3
468825	3.3	0.46	3.0	0.51	9.2	3.0	1	0.4	7	11.4	2.1
468826	2.9	0.43	2.9	0.51	7.2	1.0	5	0.3	10	9.1	2.1
468827	3.0	0.44	3.0	0.48	7.3	1.0	2	0.2	8	6.1	1.5
468828	2.6	0.39	2.6	0.40	6.4	0.9	1	0.3	12	7.9	1.8
468829	3.2	0.45	3.1	0.46	7.2	1.0	2	0.3	7	9.8	1.6
468830	2.4	0.34	2.3	0.37	5.8	0.8	1	0.3	10	7.3	1.7
468831	3.0	0.45	3.0	0.47	6.3	0.8	1	0.3	13	7.1	1.5
468832	3.0	0.46	3.0	0.43	6.4	0.7	< 1	0.2	8	5.8	1.2
468833	2.0	0.29	2.0	0.31	4.9	0.8	3	0.3	14	7.6	2.1
468834	2.7	0.40	2.7	0.41	7.7	0.9	8	0.3	13	7.3	1.8
468834A	2.0	0.29	1.9	0.29	9.3	0.5	2	0.3	17	19.8	2.4
468835	2.6	0.41	2.7	0.42	6.3	0.7	2	0.2	11	6.5	1.5

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468836	2.6	0.41	2.6	0.40	6.0	0.8	2	0.3	11	6.8	1.6
468837	3.0	0.45	3.0	0.47	6.2	0.9	1	0.3	14	7.8	1.7
468838	2.9	0.43	3.0	0.46	5.3	0.8	10	0.3	10	7.1	1.6
468839	3.0	0.45	3.1	0.50	6.6	0.8	2	0.3	10	7.5	1.7
468840	3.8	0.56	3.8	0.57	9.7	0.9	2	0.2	7	11.4	1.9
468841	4.0	0.60	3.8	0.60	9.2	0.8	2	0.2	8	9.8	1.9
468842	2.8	0.39	2.7	0.43	6.7	0.9	3	0.3	10	9.2	2.1
468843	3.4	0.49	3.3	0.56	11.1	1.9	11	0.3	9	17.7	2.7
468844	3.5	0.51	3.3	0.57	10.0	2.0	3	0.3	8	17.9	2.6
468845	3.2	0.46	3.2	0.53	6.0	0.9	2	0.3	9	7.4	1.7
468900A	8.5	0.83	4.4	0.59	10.8	21.8	3	< 0.1	112	205	4.8
468901	3.0	0.45	2.9	0.46	4.6	0.7	< 1	0.3	9	9.2	1.3
468902	4.3	0.62	4.3	0.69	9.3	1.2	2	0.4	13	13.4	3.7
468903	4.3	0.65	4.4	0.73	13.4	1.3	2	0.5	18	15.2	3.7
468904	4.3	0.70	4.6	0.76	12.9	1.3	2	0.5	19	16.6	3.9
468905	4.6	0.71	4.8	0.80	14.9	1.1	2	0.4	13	16.0	3.3
468906	3.9	0.55	3.8	0.60	9.7	0.9	4	0.3	11	7.8	1.9
468907	3.2	0.48	3.2	0.56	7.5	0.8	2	0.1	7	6.7	1.2
468908	2.1	0.31	2.1	0.32	3.4	0.6	1	0.2	8	6.3	1.3
468909	2.1	0.32	2.1	0.36	4.7	0.6	2	0.2	10	6.1	1.5
468910	3.1	0.47	3.2	0.50	6.4	0.8	1	0.1	< 5	6.0	0.8
468911	3.5	0.51	3.4	0.56	7.3	0.9	1	0.3	7	8.7	1.1
468912	2.6	0.40	2.6	0.43	5.7	0.6	2	0.2	9	5.6	1.3
468913	3.6	0.55	3.7	0.58	8.6	1.0	1	0.3	6	5.1	1.1
468914	2.5	0.38	2.5	0.41	7.2	1.0	5	0.3	12	9.5	2.0
468915	3.4	0.51	3.3	0.53	6.2	0.9	1	0.3	13	8.4	1.9
468916	3.6	0.55	3.6	0.57	10.9	1.0	20	0.3	10	7.6	1.9
468917	3.9	0.60	4.0	0.64	11.3	0.8	1	0.2	7	8.7	1.5
468918	2.6	0.38	2.5	0.40	5.9	1.0	2	0.3	12	8.2	2.2
468919	2.9	0.42	2.8	0.43	8.8	0.9	3	0.3	11	7.6	1.2
468920	3.6	0.52	3.4	0.54	5.0	0.9	1	0.2	7	7.0	1.1
468921	3.7	0.55	3.5	0.53	4.7	0.9	1	0.2	< 5	7.9	1.4
468922	3.2	0.50	3.2	0.51	7.4	0.9	1	0.3	7	7.7	1.5
468923	2.4	0.34	2.2	0.33	3.4	0.5	1	0.3	9	6.7	1.2
468924	2.8	0.42	2.7	0.42	6.8	0.9	2	0.3	16	5.1	1.3
468925	2.5	0.39	2.4	0.39	5.5	0.9	1	0.2	10	6.6	1.5
468926	3.4	0.50	3.3	0.52	7.9	0.9	1	0.3	8	8.6	1.2
468927	3.3	0.49	3.3	0.54	7.0	0.8	1	0.2	9	5.9	1.5
468928	3.5	0.53	3.6	0.56	5.6	0.8	2	0.2	8	6.5	1.4
468928A	2.3	0.33	2.2	0.37	8.9	0.6	4	0.3	18	22.5	2.7
468929	2.8	0.42	2.8	0.46	8.3	1.0	2	0.3	15	8.3	2.1
468930	3.6	0.54	3.6	0.59	10.2	1.1	2	0.3	12	10.1	2.2
468931	4.2	0.66	4.3	0.69	15.0	1.2	2	0.4	12	21.3	2.8
468932	4.9	0.73	4.8	0.80	15.0	1.3	1	0.3	14	9.0	2.1
468933	3.4	0.50	3.3	0.55	8.6	1.0	1	0.4	14	14.7	2.3
468934	4.4	0.67	4.5	0.73	14.5	1.6	2	0.5	14	17.1	3.2
468935	4.0	0.58	4.0	0.65	10.1	1.2	1	0.4	13	14.7	7.8
468937	2.6	0.38	2.5	0.42	6.0	0.7	2	0.2	8	6.6	1.6
468938	3.2	0.47	3.2	0.55	7.7	1.1	2	0.3	10	12.9	2.9
468939	3.1	0.44	2.9	0.48	6.4	1.0	1	0.3	9	10.5	2.0

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
468940	3.1	0.44	2.9	0.48	6.2	0.9	2	0.2	8	11.4	2.1
468941	2.9	0.42	2.9	0.46	5.8	0.9	2	0.3	8	11.4	2.0
468942	3.0	0.44	3.0	0.47	5.8	0.9	2	0.3	7	11.4	2.1
468943	2.8	0.41	2.7	0.43	6.1	0.7	1	0.3	7	6.5	1.3
468944	2.6	0.39	2.7	0.42	5.3	0.8	1	0.2	9	7.4	1.7
468945	2.7	0.40	2.6	0.44	6.1	0.8	2	0.2	8	6.7	1.4
468946	3.2	0.47	3.3	0.54	9.1	0.9	2	0.2	9	10.1	1.9
468947	4.9	0.71	4.7	0.76	12.8	1.3	2	0.3	9	9.9	2.2
468948	3.4	0.51	3.3	0.52	11.6	1.3	2	0.3	15	11.7	2.4
468949	2.6	0.38	2.8	0.42	5.5	0.8	2	0.2	9	6.6	1.4
468950	3.3	0.49	3.2	0.51	5.1	0.7	2	0.3	8	6.9	1.5
468951	3.0	0.41	3.0	0.47	5.7	0.7	1	0.3	7	5.8	1.2
468952	2.7	0.40	2.7	0.41	5.3	0.6	4	0.3	9	6.6	1.3
468952A	15.7	1.50	6.6	0.88	8.5	15.4	3	< 0.1	117	305	8.1
468953	3.0	0.43	2.9	0.49	5.7	0.7	1	0.3	7	6.4	1.2
468954	2.1	0.30	2.0	0.32	2.7	0.4	1	0.2	< 5	3.8	0.7
468955	2.5	0.35	2.4	0.37	3.8	0.5	2	0.2	< 5	4.9	0.8
468956	2.5	0.38	2.5	0.39	6.3	0.8	1	0.3	9	6.1	1.4
468958	3.8	0.58	3.9	0.57	11.4	1.2	2	0.4	15	16.7	3.3
468762	3.0	0.44	3.0	0.49	7.1	0.7	3	0.4	8	7.4	1.4
468763	3.3	0.50	3.3	0.56	7.3	0.9	4	0.3	8	10.0	1.5