



Date Submitted: 03-Oct-13
Invoice No.: A13-11962
Invoice Date: 21-Oct-13
Your Reference: NA42-23B

Cantex Mine Development Corp
203-1634 Harvey Ave
Kelowna BC V1Y 6G2

ATTN: Shadi Morton

CERTIFICATE OF ANALYSIS

84 Pulp samples were submitted for analysis.

The following analytical package was requested: Code UT-7 Sodium Peroxide Fusion (ICP & ICPMS)

REPORT **A13-11962**

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Notes:

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Activation Laboratories Ltd. Report: A13-11962

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	10	0.2	0.2	0.1
Analysis Method	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2
KAS00021	3.31	42	260	153	< 3	< 2	13.6	2	28.5	105	360	3.5	24	0.6	1.0	0.4	2.32	7.9	2.0	3.8	< 10	0.3	< 0.2	1.6
KAS756	3.77	33	150	399	< 3	< 2	10.2	< 2	45.9	32.0	120	2.2	20	2.0	1.9	0.7	2.40	8.7	3.7	5.0	< 10	0.6	< 0.2	3.2
KAS757	3.44	28	210	276	< 3	< 2	10.5	3	40.9	16.6	70	2.7	39	1.9	1.9	0.7	2.74	7.6	3.4	6.8	< 10	0.6	< 0.2	2.4
KAS00603	6.83	507	360	417	< 3	3	0.15	< 2	78.8	24.7	160	5.6	85	2.5	2.2	0.9	4.81	15.9	4.7	8.6	< 10	0.7	< 0.2	4.0
KAS00607	6.64	645	350	406	< 3	5	0.15	3	70.8	56.4	140	6.4	145	2.8	2.3	0.9	5.42	15.2	4.6	8.4	< 10	0.8	< 0.2	3.8
KAS00608	6.63	471	350	390	< 3	3	0.14	< 2	67.9	23.9	140	5.6	95	2.6	2.2	0.9	4.89	15.0	4.3	7.3	< 10	0.7	< 0.2	3.8
KAS00609	6.52	343	350	428	< 3	< 2	0.11	< 2	73.8	23.3	150	5.4	65	2.7	2.2	0.9	4.41	15.2	4.6	8.9	< 10	0.7	< 0.2	3.8
KAS00613	6.53	413	360	433	< 3	3	0.11	< 2	74.3	24.5	150	5.6	82	2.9	2.3	1.0	4.55	15.3	4.8	8.4	< 10	0.7	< 0.2	3.8
KAS1170	3.50	89	170	344	< 3	< 2	8.78	4	47.0	12.1	90	2.9	26	2.5	2.1	0.9	2.98	9.2	4.0	6.9	< 10	0.7	< 0.2	1.9
KAS1249	5.57	40	260	465	< 3	< 2	0.89	< 2	65.9	17.7	100	5.2	53	3.6	2.7	1.1	3.84	13.7	5.3	7.5	< 10	0.9	< 0.2	3.0
KAS1250	5.76	61	240	442	< 3	< 2	0.76	3	65.0	18.2	110	5.3	67	3.5	2.5	1.1	3.79	13.3	5.2	7.1	< 10	0.9	< 0.2	2.8
KAS00602	6.09	625	320	420	< 3	5	0.20	< 2	69.5	23.9	170	5.4	150	2.7	2.2	0.9	5.78	14.4	4.6	7.3	< 10	0.7	< 0.2	3.6
KAS00604	6.44	260	360	426	< 3	< 2	0.05	< 2	62.8	21.9	420	5.3	78	2.3	2.0	0.9	4.28	14.7	4.1	6.9	< 10	0.7	< 0.2	3.8
KAS00605	6.04	905	290	331	< 3	6	0.17	2	61.4	21.4	140	5.2	204	2.4	2.0	0.9	7.69	12.3	4.2	6.1	< 10	0.7	< 0.2	3.4
KAS00606	6.47	496	320	410	< 3	4	0.16	2	73.2	25.5	160	5.9	144	2.7	2.3	1.0	5.12	14.8	4.7	7.4	< 10	0.8	< 0.2	3.8
KAS00610	6.35	170	320	468	< 3	< 2	0.13	2	72.7	24.6	180	5.3	54	2.9	2.2	1.0	3.99	14.6	4.9	5.4	< 10	0.8	< 0.2	3.8
KAS00611	6.31	855	330	414	< 3	6	0.15	2	72.6	28.4	170	6.0	182	2.9	2.4	1.0	6.46	14.8	4.8	6.9	< 10	0.8	< 0.2	3.7
KAS00090	2.83	89	140	225	< 3	< 2	13.4	3	36.2	8.8	70	1.2	39	1.4	1.5	0.5	1.58	6.9	2.9	3.4	< 10	0.5	< 0.2	2.4
KAS00091	1.52	82	90	118	< 3	< 2	16.8	20	26.5	251	50	0.7	94	1.1	1.4	0.4	1.49	3.7	2.4	2.7	< 10	0.5	< 0.2	1.2
KAS00092	3.01	176	120	248	< 3	< 2	12.2	7	39.0	10.4	90	1.7	46	1.4	1.5	0.6	1.82	7.4	3.0	5.6	< 10	0.5	< 0.2	2.6
KAS00093	2.14	99	140	202	< 3	< 2	15.7	5	38.7	8.8	60	0.7	21	1.6	1.7	0.6	1.97	5.3	3.3	< 0.7	< 10	0.6	< 0.2	1.8
KAS00193	2.18	271	80	173	< 3	< 2	14.9	17	27.1	8.2	60	0.8	48	1.0	1.3	0.5	1.68	5.4	2.4	4.4	< 10	0.4	< 0.2	1.8
KAS00194	1.71	128	100	129	< 3	< 2	17.0	3	20.7	6.2	40	0.6	23	1.7	1.3	0.4	1.42	4.5	2.2	3.2	< 10	0.4	< 0.2	1.4
KAS00085	3.53	131	180	209	< 3	< 2	13.0	4	39.4	9.7	50	2.4	48	2.0	1.5	0.5	2.00	9.3	2.9	4.5	< 10	0.5	0.7	2.6
KAS1007	5.61	16	190	580	< 3	< 2	2.14	< 2	64.8	16.2	100	2.3	44	4.5	3.1	1.0	2.50	14.6	5.3	6.0	< 10	1.0	< 0.2	4.9
KAS1016	5.60	126	210	478	< 3	< 2	2.89	< 2	69.9	15.1	130	3.9	68	4.5	2.9	1.4	3.69	14.8	5.8	9.0	< 10	1.0	< 0.2	3.5
KAS1018	6.09	22	190	476	< 3	< 2	0.84	< 2	60.2	123	110	3.6	56	3.9	2.4	1.2	3.85	14.7	5.1	7.9	< 10	0.8	< 0.2	3.9
KAS1504	4.67	92	210	288	< 3	< 2	7.68	< 2	52.5	19.8	50	5.8	97	2.8	1.8	0.8	3.87	12.4	3.8	8.6	< 10	0.6	< 0.2	2.3
KAS1017	6.09	33	200	563	< 3	8	0.50	< 2	76.1	18.7	130	4.3	60	4.9	3.2	1.4	3.81	16.9	6.3	7.7	< 10	1.1	< 0.2	3.9
KAS1020	5.68	13	240	442	< 3	< 2	2.41	< 2	70.8	16.1	130	4.5	66	4.5	2.9	1.3	3.83	14.8	5.8	7.5	< 10	1.0	< 0.2	3.4
KAS1008	5.00	19	260	446	< 3	< 2	3.57	< 2	71.0	12.2	120	2.6	95	5.2	3.4	1.4	3.61	12.9	6.3	6.7	< 10	1.1	< 0.2	3.3
KAS1015	4.61	46	390	332	< 3	< 2	6.38	< 2	49.5	12.2	140	2.7	43	3.4	2.3	1.0	3.61	11.6	4.3	7.1	< 10	0.8	< 0.2	2.9
KAS1503	6.99	61	250	305	< 3	< 2	8.78	< 2	55.3	15.2	70	5.1	70	2.7	1.7	0.8	4.40	13.8	3.8	8.6	< 10	0.6	< 0.2	3.4
KAS999	7.06	26	410	585	< 3	< 2	5.91	< 2	63.4	11.3	140	2.9	30	4.4	2.8	1.2	5.96	13.1	5.5	6.2	< 10	0.9	< 0.2	3.3
KAS1050	4.56	12	380	255	< 3	< 2	17.0	< 2	39.1	27.3	200	1.8	26	3.1	2.2	0.8	3.52	8.3	4.0	4.1	< 10	0.7	< 0.2	2.3
KAS1052	5.12	35	470	313	< 3	< 2	10.9	< 2	47.4	9.6	60	2.2	32	4.2	2.8	1.1	4.97	9.8	5.1	5.2	< 10	0.9	< 0.2	2.2
KAS1053	5.33	40	400	374	< 3	< 2	11.5	< 2	46.8	174	60	2.5	36	4.3	2.9	1.1	5.24	10.5	5.1	4.8	< 10	1.0	< 0.2	2.3
KAS1000	5.60	22	280	404	< 3	< 2	11.1	< 2	47.3	8.0	60	2.2	26	3.5	2.4	0.9	4.90	10.4	4.3	4.2	< 10	0.8	< 0.2	2.7
KAS1049	4.17	25	500	211	< 3	< 2	18.5	< 2	42.5	19.8	150	1.6	16	3.2	2.2	0.8	2.84	8.2	4.0	4.2	< 10	0.7	< 0.2	2.0
KAS1051	4.54	25	450	229	< 3	< 2	16.7	< 2	39.9	7.9	80	1.7	22	3.3	2.3	0.8	3.73	8.1	4.1	5.8	< 10	0.7	< 0.2	2.1
KAS1054	4.78	69	350	477	< 3	< 2	6.29	< 2	55.8	10.8	90	3.3	26	3.8	2.4	1.0	4.01	12.1	4.8	5.4	< 10	0.8	< 0.2	2.3
KAS1002	6.38	31	190	507	< 3	< 2	1.12	< 2	67.4	16.1	120	2.5	49	3.8	2.5	1.0	3.02	16.4	4.9	6.9	< 10	0.9	< 0.2	5.2
KAS1003	3.74	225	200	185	< 3	< 2	9.56	5	52.3	10.2	70	3.1	222	3.0	2.1	0.9	4.83	12.2	4.1	7.0	< 10	0.7	< 0.2	2.4
KAS1004	6.48	68	210	422	< 3	< 2	3.16	< 2	61.6	15.7	90	3.7	60	4.4	2.9	1.2	3.63	16.5	5.4	6.9	< 10	0.9	< 0.2	3.8
KAS00402	3.68	42	370	346	< 3	< 2	9.50	< 2	55.8	10.1	70	3.1	42	3.9	2.7	1.1	3.80	9.6	5.0	4.6	< 10	0.9	< 0.2	1.9
KAS00410	4.16	48	280	383	< 3	< 2	7.80	< 2	54.6	11.2	80	3.4	33	3.9	2.7	1.1	4.28	10.9	5.0	5.8	< 10	0.9	< 0.2	2.0
KAS687	4.69	60	340	464	< 3	< 2	6.01	2	62.7	12.8	90	4.0	37	4.8	3.2	1.3	5.10	12.0	5.9	7.3	< 10	1.0	< 0.2	2.1
KAS00521	5.93	32	260	554	< 3	< 2	0.49	< 2	68.9	42.7	170	4.8	40	4.1	2.4	1.2	3.85	16.1	5.2	7.3	< 10	0.8	< 0.2	3.3
KAS700	6.19	579	370	441	< 3	8	0.26	2	74.2	20.5	130	5.8	130	3.8	2.3	1.1	5.64	17.3	4.9	7.0	< 10	0.8	< 0.2	3.7
KAS3979	4.47	51	160	317	< 3	5	6.04	4	52.9	20.7	110	2.5	183	3.5	2.1	1.1	8.24	11.7	4.5	8.0	< 10	0.7	0.2	2.8
KAS3981	5.44	63	180	374	< 3	6	2.98	6	63.7	25.0	110	3.2	204	4.2	2.5	1.4	8.69	14.3	5.5	11.2	< 10	0.9	0.2	3.2

Activation Laboratories Ltd. Report: A13-11962

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	10	0.2	0.2	0.1
Analysis Method	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2
KAS3380	6.55	12	180	511	< 3	< 2	1.02	< 2	76.8	27.1	140	3.2	68	4.9	3.0	1.5	5.33	17.0	6.3	9.9	< 10	1.1	< 0.2	3.0
KAS3381	4.03	211	140	414	< 3	2	1.80	2	58.4	13.9	190	2.1	56	4.2	2.5	1.5	7.27	11.8	5.5	11.8	< 10	0.9	< 0.2	1.8
KAS3382	3.63	20	210	203	< 3	< 2	2.94	< 2	35.7	21.2	220	1.6	22	1.6	1.0	0.7	3.75	10.8	2.5	21.0	< 10	0.4	< 0.2	2.1
KAS3314	6.47	25	320	291	3	2	2.60	< 2	61.3	39.2	160	4.5	105	3.2	2.1	1.0	3.92	16.2	4.4	10.1	< 10	0.7	< 0.2	3.9
KAS3830	5.60	22	210	171	< 3	3	7.60	< 2	42.6	9.7	80	2.4	122	1.7	1.4	0.5	2.59	15.2	2.5	6.7	< 10	0.4	< 0.2	3.6
KAS3831	3.91	146	140	111	< 3	26	10.8	8	34.1	10.3	60	1.5	1130	1.7	1.2	0.6	3.25	10.8	2.4	6.3	< 10	0.4	< 0.2	2.6
KAS3833	4.61	67	210	166	< 3	7	9.58	2	44.0	14.2	70	1.9	202	2.0	1.3	0.7	2.67	13.1	3.0	6.6	< 10	0.4	0.5	2.9
KAS3775	6.38	24	310	426	< 3	3	2.54	5	67.9	19.8	110	3.8	144	3.6	2.2	1.0	4.63	17.5	4.6	8.5	< 10	0.7	< 0.2	4.4
KAS3874	7.26	37	300	290	< 3	< 2	2.96	11	83.6	30.2	120	4.0	225	4.9	3.0	1.7	7.02	19.7	6.4	9.0	< 10	1.0	< 0.2	3.8
KAS3875	4.22	29	170	270	< 3	2	7.84	4	51.2	24.0	80	1.7	104	2.3	1.5	0.7	5.71	11.5	3.3	7.8	< 10	0.5	< 0.2	3.2
KAS3876	5.96	61	190	449	< 3	3	1.56	6	76.4	28.3	180	3.8	113	4.0	2.6	1.2	6.20	16.7	5.5	10.8	< 10	0.9	0.5	3.9
KAS3877	4.15	164	150	293	< 3	29	7.34	8	54.4	25.9	110	2.4	640	2.8	1.8	0.8	7.08	11.8	3.7	9.2	< 10	0.6	3.7	3.2
KAS3878	3.67	29	140	229	< 3	< 2	9.12	2	43.8	42.5	100	2.0	103	2.5	1.6	0.7	5.35	9.5	3.3	6.4	< 10	0.6	< 0.2	3.0
KAS3879	4.98	18	170	340	< 3	< 2	4.84	2	66.3	38.5	150	3.0	67	3.6	2.4	1.0	5.58	13.2	4.8	7.5	< 10	0.8	< 0.2	3.8
KAS3880	4.53	19	180	211	< 3	< 2	9.71	4	50.8	15.0	70	2.3	84	2.3	1.5	0.7	3.39	12.8	3.2	6.8	< 10	0.5	< 0.2	3.0
KAS3882	6.01	20	240	406	< 3	< 2	3.76	3	68.1	24.4	180	4.5	61	3.9	2.5	1.1	4.83	17.0	5.0	9.9	< 10	0.8	< 0.2	3.9
KAS3883	6.95	19	230	396	< 3	< 2	3.01	3	71.0	19.8	60	4.5	73	4.3	2.6	1.2	5.02	18.0	5.3	6.8	< 10	0.9	< 0.2	4.1
KAS3448	3.76	17	210	220	< 3	< 2	10.5	< 2	35.0	10.8	100	1.9	80	1.3	0.9	0.7	2.53	10.5	2.3	6.7	< 10	0.3	< 0.2	2.7
KAS4350	4.38	24	170	375	< 3	< 2	7.42	< 2	44.1	33.9	110	2.2	< 2	3.0	2.0	0.8	3.24	11.2	3.8	3.5	< 10	0.7	< 0.2	2.7
KAS3146	4.70	21	160	319	< 3	< 2	6.73	< 2	55.1	31.7	90	3.8	75	4.0	2.5	1.4	5.25	12.1	5.4	3.3	< 10	0.9	< 0.2	2.6
KAS3873	6.56	33	230	392	< 3	< 2	3.87	5	70.2	19.9	100	4.5	77	4.1	2.6	1.1	4.60	18.7	5.2	5.1	< 10	0.9	< 0.2	4.1
KAS3610	6.29	26	150	532	< 3	< 2	0.67	< 2	70.9	19.6	160	5.3	24	4.5	2.6	1.6	5.62	16.7	6.2	3.5	< 10	0.9	< 0.2	2.9
KAS2888	3.44	37	170	347	< 3	5	9.48	< 2	52.9	27.7	270	3.6	352	2.1	1.3	1.1	3.38	9.6	3.9	6.5	< 10	0.5	< 0.2	2.2
KAS3230	5.74	17	160	475	< 3	< 2	3.49	< 2	64.9	32.1	120	4.0	57	4.5	2.7	1.4	5.34	14.4	6.0	4.5	< 10	0.9	< 0.2	2.8
KAS3206	5.13	35	180	394	< 3	< 2	3.23	< 2	47.3	24.7	190	3.0	< 2	2.8	1.8	1.0	4.47	13.7	4.0	7.0	< 10	0.6	< 0.2	3.2
KAS3207	5.32	198	210	317	< 3	< 2	2.92	8	47.6	15.6	170	2.4	19	3.5	2.3	1.1	6.95	14.5	4.4	8.7	< 10	0.7	< 0.2	3.0
KAS3498	4.62	< 5	120	236	< 3	< 2	3.25	< 2	43.9	15.3	190	1.7	10	2.5	1.6	0.9	4.09	11.6	3.6	4.4	< 10	0.6	< 0.2	2.7
KAS3790	5.35	33	220	321	< 3	< 2	6.14	5	52.9	155	100	2.6	160	2.5	1.7	0.9	4.78	14.1	3.6	4.5	< 10	0.6	< 0.2	3.7
KAS3791	5.62	29	260	321	< 3	< 2	5.85	4	55.1	11.8	70	2.5	98	2.5	1.7	0.9	4.34	14.8	3.6	5.8	< 10	0.6	< 0.2	3.9
KAS3792	4.91	28	220	321	< 3	< 2	7.52	5	52.6	21.7	80	2.5	89	2.6	1.7	0.8	3.94	14.0	3.7	5.7	< 10	0.5	< 0.2	3.5
KAS3793	5.18	14	220	342	< 3	< 2	6.11	4	52.5	14.5	90	2.5	72	2.6	1.7	0.9	4.04	13.9	3.7	5.3	< 10	0.6	< 0.2	3.7
KAS3299	4.78	7	220	325	< 3	< 2	7.59	< 2	37.9	22.7	120	2.3	< 2	1.4	1.1	0.6	2.35	12.8	2.3	10.7	< 10	0.4	< 0.2	3.6
KAS3060	4.85	16	120	453	< 3	< 2	0.91	< 2	49.2	26.7	140	2.5	< 2	3.4	2.1	1.2	6.46	12.6	4.7	5.5	< 10	0.7	< 0.2	2.6

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Analyte Symbol	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.4	3	0.01	3	1	2.4	0.4	10	0.005	0.8	0.1	0.4	0.01	2	0.8	0.01	0.1	0.5	3	0.2	0.1	6	0.1	0.01
Analysis Method	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	
KAS00021	14.1	24	7.30	1690	139	5.7	11.6	150	0.033	126	3.1	56.2	0.07	3	< 0.8	14.1	2.1	< 0.5	38	1.3	0.3	< 6	6.4	0.18
KAS756	24.1	32	5.74	1170	13	16.3	20.3	70	0.072	59.1	5.2	87.9	0.08	7	< 0.8	20.0	3.5	1.2	32	1.5	0.5	< 6	7.6	0.21
KAS757	21.0	27	6.22	1540	3	5.2	18.8	40	0.069	133	4.6	73.9	0.09	7	2.3	17.9	3.5	1.0	31	0.9	0.4	< 6	7.4	0.20
KAS00603	41.6	50	1.07	1410	< 1	10.1	31.8	40	0.037	29.1	8.2	176	< 0.01	26	< 0.8	31.9	5.3	1.9	15	1.5	0.6	< 6	12.5	0.32
KAS00607	35.1	71	0.99	2190	< 1	13.0	27.8	70	0.038	48.1	7.7	167	0.02	35	1.5	31.9	5.0	2.0	17	1.4	0.6	< 6	11.6	0.31
KAS00608	33.8	46	0.96	1550	< 1	9.1	26.9	40	0.036	36.5	7.4	165	0.01	31	1.6	32.8	4.8	2.5	15	1.3	0.6	< 6	11.4	0.32
KAS00609	34.6	53	1.11	1170	< 1	9.6	29.4	40	0.035	27.9	7.9	165	< 0.01	14	7.4	31.9	5.3	2.0	13	1.4	0.6	< 6	12.2	0.31
KAS00613	34.0	51	1.04	1410	< 1	9.6	29.3	40	0.036	33.0	8.0	167	< 0.01	23	9.4	32.7	5.4	1.9	15	1.4	0.6	< 6	12.2	0.32
KAS1170	22.6	37	5.41	2120	< 1	6.3	21.6	30	0.060	148	5.4	73.7	0.06	< 2	16.6	17.6	4.2	1.5	37	0.8	0.5	< 6	7.0	0.20
KAS1249	31.2	55	2.09	1700	< 1	8.4	28.4	40	0.083	52.2	7.5	119	0.05	6	16.3	26.4	5.5	1.9	21	1.1	0.8	< 6	10.6	0.28
KAS1250	30.5	55	2.14	1670	7	9.7	27.3	40	0.081	67.6	7.3	118	0.05	48	19.8	27.1	5.5	2.2	24	1.2	0.7	< 6	11.1	0.29
KAS00602	32.7	48	1.06	2430	< 1	8.9	27.8	40	0.036	47.7	7.6	157	0.02	53	16.0	31.7	5.0	2.6	17	1.2	0.6	< 6	11.3	0.29
KAS00604	31.1	49	1.09	1300	< 1	9.1	25.1	40	0.035	27.8	6.8	162	< 0.01	17	14.8	32.5	4.5	2.3	11	1.2	0.6	< 6	10.8	0.31
KAS00605	28.5	36	0.89	3120	8	7.5	25.7	30	0.045	63.5	6.7	135	0.06	63	9.9	30.3	4.7	1.6	11	1.1	0.5	< 6	10.3	0.28
KAS00606	34.4	49	1.02	1820	2	9.7	30.1	30	0.050	52.9	7.9	164	0.05	57	17.3	32.4	5.4	2.0	16	1.5	0.6	< 6	12.2	0.31
KAS00610	33.4	52	1.13	1080	2	9.6	29.2	40	0.034	23.7	7.9	160	< 0.01	9	22.5	33.2	5.3	2.0	15	1.3	0.6	< 6	12.0	0.31
KAS00611	34.2	46	0.95	2860	3	9.5	29.4	40	0.039	63.9	7.9	163	0.06	61	4.6	31.2	5.2	4.1	18	1.4	0.6	< 6	12.2	0.30
KAS00090	18.1	22	7.57	1310	2	4.3	16.0	30	0.052	274	4.0	54.7	0.07	2	24.7	14.3	2.8	1.2	30	0.6	0.4	< 6	5.3	0.14
KAS00091	37.4	67	9.54	1580	2	3.3	15.7	60	0.047	209	3.2	29.2	0.09	21	14.7	7.71	2.1	3.2	26	0.8	0.3	< 6	3.3	0.09
KAS00092	19.3	23	7.08	1430	4	4.6	17.3	30	0.115	412	4.4	59.7	0.06	31	12.0	16.0	3.0	2.3	26	1.1	0.4	< 6	6.0	0.16
KAS00093	17.7	12	8.70	1670	3	7.4	19.5	30	0.129	212	4.4	40.1	0.08	14	39.6	9.29	3.3	1.4	27	0.5	0.4	< 6	5.5	0.12
KAS00193	13.3	18	8.52	1190	2	2.9	12.3	20	0.073	861	3.1	36.5	0.13	17	35.2	11.2	2.3	1.0	26	0.5	0.3	< 6	3.8	0.11
KAS00194	10.7	10	9.42	1400	< 1	3.7	10.7	20	0.092	424	2.7	32.5	0.11	11	8.0	8.64	2.1	1.1	33	0.2	0.3	< 6	3.3	0.09
KAS00085	20.4	26	7.38	2070	< 1	7.4	17.1	30	0.045	3530	4.4	67.6	0.16	29	27.9	15.2	3.0	16.5	31	2.4	0.4	< 6	7.3	0.18
KAS1007	32.5	53	1.79	701	35	9.8	28.7	50	0.070	267	7.6	100	0.04	6	25.0	27.8	5.3	1.4	26	0.9	0.8	< 6	10.9	0.31
KAS1016	33.7	62	2.99	2280	< 1	11.0	31.7	30	0.062	361	8.0	97.1	0.06	8	24.0	27.0	5.9	7.1	41	0.9	0.8	< 6	10.1	0.34
KAS1018	29.2	66	1.92	2330	< 1	10.9	26.5	30	0.061	320	7.0	97.5	0.01	4	14.7	28.8	5.1	1.1	37	0.9	0.7	< 6	9.4	0.41
KAS1504	27.4	72	3.93	4150	< 1	8.5	23.1	50	0.047	924	6.3	101	0.06	10	24.1	23.2	4.1	1.7	48	0.7	0.5	< 6	8.3	0.22
KAS1017	36.1	71	1.64	2100	< 1	11.9	33.6	40	0.072	289	8.7	113	0.02	7	23.9	28.8	6.5	1.9	45	1.0	0.9	< 6	11.3	0.38
KAS1020	35.6	61	2.40	1970	< 1	11.2	32.9	40	0.048	735	8.5	105	0.05	7	< 0.8	27.7	6.2	2.1	50	1.0	0.8	< 6	11.4	0.35
KAS1008	33.8	35	2.45	2180	< 1	9.3	31.1	40	0.071	1410	8.1	89.7	0.04	5	15.9	26.4	6.0	1.1	42	0.8	0.9	< 6	9.6	0.29
KAS1015	23.8	35	4.18	2570	< 1	8.3	22.0	30	0.055	610	5.7	81.1	0.03	9	26.6	22.9	4.3	1.3	36	0.6	0.6	< 6	8.4	0.26
KAS1503	28.6	77	4.97	2290	< 1	15.3	24.4	40	0.061	436	6.5	106	0.11	6	29.9	32.7	4.2	1.8	36	2.8	0.5	< 6	10.3	0.33
KAS999	33.3	40	4.25	2760	42	10.6	28.9	110	0.097	98.4	7.5	82.4	0.10	4	35.5	32.2	5.6	1.5	58	0.9	0.8	< 6	9.7	0.39
KAS1050	21.8	27	10.00	1560	28	33.0	19.6	80	0.077	106	4.9	48.2	0.10	< 2	32.1	20.0	3.9	0.7	36	1.6	0.6	< 6	6.5	0.24
KAS1052	26.4	31	7.05	2340	< 1	7.4	24.1	40	0.175	113	6.1	53.3	0.18	< 2	34.2	21.6	4.8	0.7	38	0.5	0.7	< 6	7.7	0.28
KAS1053	25.9	34	7.30	2640	< 1	8.0	23.4	40	0.107	115	6.0	60.7	0.11	< 2	25.7	22.6	4.8	1.5	45	0.7	0.7	< 6	7.7	0.28
KAS1000	24.5	30	6.51	2160	< 1	7.6	22.5	30	0.085	96.9	5.8	66.8	0.10	< 2	18.3	26.5	4.2	0.9	52	0.5	0.6	< 6	7.1	0.30
KAS1049	23.7	24	10.5	1350	13	35.3	20.0	60	0.079	114	5.2	47.0	0.11	< 2	13.8	18.3	3.9	0.6	36	2.0	0.5	< 6	6.9	0.22
KAS1051	22.3	24	9.91	1660	< 1	6.4	19.7	40	0.097	102	5.1	45.5	0.13	< 2	22.9	19.4	3.9	0.6	33	0.4	0.6	< 6	6.6	0.24
KAS1054	29.0	45	4.64	2660	< 1	9.0	26.1	40	0.059	86.3	6.8	86.4	0.05	< 2	16.9	22.5	4.8	1.0	49	0.7	0.6	< 6	8.8	0.26
KAS1002	33.4	48	1.58	1890	< 1	10.4	28.1	30	0.064	54.6	7.4	115	< 0.01	9	10.9	29.3	5.2	1.6	21	0.9	0.7	< 6	11.2	0.34
KAS1003	25.9	27	5.82	3740	< 1	6.7	22.9	30	0.047	37800	6.1	78.8	0.19	77	4.7	15.5								

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Analyte Symbol	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.4	3	0.01	3	1	2.4	0.4	10	0.005	0.8	0.1	0.4	0.01	2	0.8	0.01	0.1	0.5	3	0.2	0.1	6	0.1	0.01
Analysis Method	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2
KAS3380	37.9	90	1.29	3000	< 1	13.0	34.7	50	0.095	60.4	8.9	115	0.02	11	7.3	29.1	6.9	1.5	59	1.1	0.9	< 6	12.4	0.40
KAS3381	26.6	53	1.25	5200	< 1	7.4	27.5	30	0.075	51.3	6.9	78.0	0.04	3	30.6	28.4	5.8	0.8	43	0.5	0.8	< 6	9.1	0.23
KAS3382	14.9	70	2.03	2870	< 1	8.4	13.8	30	0.054	28.2	3.8	83.3	< 0.01	4	17.6	31.5	2.7	0.8	21	0.6	0.3	< 6	8.1	0.22
KAS3314	32.4	68	1.99	2020	< 1	9.9	27.7	60	0.064	79.1	7.2	130	0.02	9	12.9	26.6	4.9	1.1	20	0.8	0.6	< 6	13.0	0.32
KAS3830	20.5	45	4.51	1300	< 1	8.8	16.9	20	0.031	24.5	4.6	126	0.03	7	15.4	22.6	2.9	1.0	26	0.8	0.3	< 6	11.6	0.26
KAS3831	14.5	33	5.91	1960	< 1	7.1	14.3	20	0.029	136	3.8	89.4	0.07	50	11.6	17.6	2.7	0.8	31	0.4	0.3	< 6	8.3	0.18
KAS3833	22.2	54	5.64	1530	< 1	9.8	18.9	20	0.051	37.9	5.0	103	0.06	12	13.4	18.7	3.4	7.3	24	0.7	0.4	< 6	9.0	0.31
KAS3775	34.5	49	2.56	2140	< 1	11.6	29.4	40	0.054	388	7.7	140	0.02	11	6.3	26.0	5.2	1.4	22	1.0	0.6	< 6	12.1	0.36
KAS3874	41.9	42	2.58	2740	< 1	37.7	36.6	50	0.178	1680	9.5	135	0.02	10	8.5	24.4	6.8	1.2	30	3.2	0.8	< 6	11.0	0.92
KAS3875	26.1	40	4.92	1580	< 1	7.6	21.5	40	0.042	358	5.7	86.0	0.04	14	5.1	19.9	3.7	1.1	23	0.5	0.4	< 6	9.0	0.23
KAS3876	37.8	59	2.30	2260	< 1	13.5	32.9	50	0.069	268	8.7	122	0.03	12	11.4	25.7	6.0	6.0	29	1.1	0.7	< 6	13.5	0.35
KAS3877	26.7	55	4.58	3490	< 1	8.4	23.0	40	0.039	538	6.1	97.0	0.10	82	3.3	19.7	4.0	64.2	25	0.7	0.5	< 6	10.5	0.24
KAS3878	21.1	46	5.30	1510	< 1	6.3	18.6	100	0.034	133	4.9	82.3	0.21	10	7.3	17.5	3.6	0.7	21	0.3	0.5	< 6	8.0	0.19
KAS3879	31.6	61	3.32	1680	< 1	9.2	28.2	50	0.042	136	7.4	110	0.08	8	1.1	23.2	5.3	3.2	21	0.7	0.6	< 6	11.1	0.26
KAS3880	25.7	41	5.88	1580	< 1	11.9	20.8	30	0.044	135	5.4	94.3	0.04	10	< 0.8	18.6	3.6	0.8	40	1.1	0.4	< 6	12.4	0.31
KAS3882	35.9	53	3.03	2570	4	14.2	29.7	40	0.044	189	8.1	143	0.06	9	7.0	24.4	5.3	0.6	30	1.5	0.4	< 6	11.0	0.36
KAS3883	36.9	38	2.89	1770	< 1	16.2	31.7	40	0.059	164	8.6	152	< 0.01	13	3.8	25.6	5.7	< 0.5	33	1.5	0.4	< 6	11.3	0.45
KAS3448	19.5	46	6.14	1790	< 1	5.9	15.0	30	0.053	17.9	4.1	91.7	0.07	11	1.1	18.6	2.6	< 0.5	33	0.5	< 0.1	< 6	6.1	0.21
KAS4350	24.4	35	4.41	2430	< 1	6.7	19.9	80	0.054	34.4	5.3	85.0	0.06	9	< 0.8	21.3	3.8	< 0.5	41	0.5	0.2	< 6	7.2	0.24
KAS3146	28.9	47	4.30	4040	< 1	8.3	26.5	40	0.084	167	6.9	95.7	0.02	9	< 0.8	22.0	5.4	< 0.5	37	0.7	0.4	< 6	9.8	0.27
KAS3873	37.3	48	3.06	2000	38	16.3	31.0	40	0.060	256	8.5	162	0.03	11	< 0.8	24.9	5.5	< 0.5	30	1.6	0.4	< 6	11.4	0.42
KAS3610	38.4	59	1.31	3060	4	13.6	34.1	40	0.107	41.7	9.1	115	0.04	5	< 0.8	25.7	6.5	< 0.5	54	1.3	0.5	< 6	10.5	0.39
KAS2888	27.4	49	5.55	2290	2	8.2	24.8	60	0.081	36.0	6.5	91.8	0.09	19	5.6	19.0	4.4	< 0.5	104	0.6	0.1	< 6	7.7	0.22
KAS3230	33.6	48	2.52	3580	5	10.7	30.6	50	0.086	178	8.0	105	0.02	10	< 0.8	25.9	6.0	< 0.5	58	1.0	0.5	< 6	10.6	0.35
KAS3206	24.9	72	2.33	3350	4	9.6	21.9	50	0.070	57.8	5.8	112	0.05	12	< 0.8	26.8	4.0	< 0.5	33	1.3	0.2	< 6	9.2	0.28
KAS3207	25.5	49	1.95	5840	1	8.5	22.8	40	0.063	132	6.1	109	0.02	8	< 0.8	25.8	4.5	< 0.5	35	0.7	0.3	< 6	8.6	0.29
KAS3498	23.8	41	1.97	2780	2	7.4	20.0	40	0.089	25.1	5.4	88.6	0.06	3	< 0.8	21.3	3.8	< 0.5	28	0.6	0.2	< 6	6.7	0.26
KAS3790	28.7	39	3.88	2910	2	13.9	22.9	30	0.069	322	6.3	110	0.05	24	2.0	23.3	4.0	< 0.5	30	1.0	0.2	< 6	7.8	0.36
KAS3791	29.7	42	3.99	2510	< 1	11.7	24.2	30	0.069	185	6.6	114	0.02	15	< 0.8	23.3	4.1	< 0.5	28	1.0	0.2	< 6	8.2	0.37
KAS3792	28.1	41	4.40	2570	2	10.5	22.7	30	0.056	186	6.3	110	0.03	9	< 0.8	21.7	3.9	4.7	29	1.3	0.2	< 6	8.1	0.30
KAS3793	28.1	41	3.96	2540	< 1	10.7	23.7	30	0.069	232	6.3	111	0.05	14	< 0.8	23.1	4.2	< 0.5	26	1.0	0.2	< 6	8.3	0.34
KAS3299	20.3	80	4.89	1540	< 1	8.6	15.4	40	0.049	55.6	4.4	114	0.05	6	< 0.8	22.4	2.5	< 0.5	23	0.7	< 0.1	< 6	8.9	0.27
KAS3060	24.5	46	0.99	5130	2	7.5	22.8	60	0.102	48.9	6.1	91.8	0.05	5	< 0.8	23.3	4.6	< 0.5	40	0.6	0.3	< 6	7.3	0.29

Analyte Symbol	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Analysis Method	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2
KAS00021	0.3	0.2	1.4	31	< 0.7	10.1	0.6	190
KAS756	0.6	0.3	2.8	98	61.4	19.6	1.8	210
KAS757	0.5	0.3	2.8	72	< 0.7	18.8	1.7	400
KAS00603	0.8	0.3	4.0	63	2.0	18.0	1.8	110
KAS00607	0.8	0.3	3.0	71	< 0.7	19.8	1.9	160
KAS00608	0.8	0.3	2.8	60	< 0.7	18.3	1.7	130
KAS00609	0.8	0.3	2.7	66	< 0.7	18.5	1.8	100
KAS00613	0.8	0.3	2.7	67	< 0.7	19.5	1.9	120
KAS1170	0.4	0.3	1.6	67	7.3	21.2	1.7	820
KAS1249	0.5	0.4	2.1	70	< 0.7	24.7	2.2	170
KAS1250	0.5	0.4	2.5	71	6.0	23.9	2.1	220
KAS00602	0.8	0.3	2.8	62	3.8	18.8	1.8	120
KAS00604	0.7	0.3	2.4	60	0.9	17.5	1.6	80
KAS00605	0.7	0.3	3.3	37	< 0.7	16.5	1.6	160
KAS00606	0.8	0.3	3.1	61	0.9	19.1	1.8	140
KAS00610	0.7	0.3	2.5	61	< 0.7	19.6	1.8	70
KAS00611	0.8	0.3	3.4	69	11.1	19.9	1.9	160
KAS00090	0.4	0.2	1.9	46	22.1	16.8	1.3	490
KAS00091	0.3	0.2	1.9	24	1.3	16.8	1.2	2550
KAS00092	0.5	0.2	3.0	45	7.2	16.8	1.3	1190
KAS00093	0.3	0.2	3.5	66	1.9	19.5	1.4	770
KAS00193	0.3	0.2	3.7	37	1.4	15.1	1.1	4040
KAS00194	0.2	0.2	1.2	37	< 0.7	15.2	1.3	930
KAS00085	0.4	0.2	1.7	49	20.8	15.1	1.5	1530
KAS1007	0.7	0.4	2.3	85	57.1	30.7	3.1	150
KAS1016	0.6	0.4	1.9	72	43.2	29.8	2.8	290
KAS1018	0.5	0.4	2.1	63	1.7	24.0	2.4	260
KAS1504	0.6	0.3	2.5	64	1.0	16.3	1.7	210
KAS1017	0.6	0.5	3.7	89	< 0.7	31.3	3.1	230
KAS1020	0.6	0.4	2.4	75	7.6	28.6	2.8	500
KAS1008	0.6	0.5	2.6	77	39.3	36.1	3.4	640
KAS1015	0.4	0.3	2.0	52	11.5	23.1	2.1	170
KAS1503	0.6	0.3	2.5	68	26.1	15.6	1.7	300
KAS999	0.5	0.4	2.4	88	27.3	28.4	2.8	170
KAS1050	0.4	0.3	2.4	60	195	24.3	2.2	130
KAS1052	0.4	0.4	3.4	80	< 0.7	31.5	2.9	190
KAS1053	0.5	0.4	3.2	83	< 0.7	31.5	2.9	180
KAS1000	0.4	0.3	1.7	56	4.7	24.1	2.3	150
KAS1049	0.3	0.3	2.6	70	164	24.1	2.2	110
KAS1051	0.4	0.3	2.7	63	22.6	25.7	2.3	130
KAS1054	0.5	0.4	3.8	84	36.5	25.5	2.4	150
KAS1002	0.5	0.4	1.9	67	28.0	25.3	2.6	110
KAS1003	0.4	0.3	3.1	39	21.6	22.0	2.0	1070
KAS1004	0.6	0.4	2.3	90	35.3	29.9	2.7	360
KAS00402	0.4	0.4	2.6	74	< 0.7	27.3	2.1	200
KAS00410	0.5	0.4	2.3	72	144	28.1	2.2	240
KAS687	0.6	0.5	3.1	88	< 0.7	33.3	2.7	280
KAS00521	0.6	0.3	2.7	182	< 0.7	22.5	2.0	100
KAS700	0.8	0.3	3.2	53	< 0.7	20.4	2.0	170
KAS3979	0.6	0.3	2.9	38	< 0.7	19.2	1.7	1070
KAS3981	0.7	0.4	3.3	56	60.2	23.2	2.0	1390

Analyte Symbol	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Analysis Method	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2
KAS3380	0.9	0.4	4.0	87	< 0.7	26.5	2.4	230
KAS3381	0.5	0.4	2.8	54	< 0.7	23.0	1.9	360
KAS3382	0.4	0.2	2.4	33	< 0.7	9.6	0.9	140
KAS3314	1.0	0.3	3.6	60	< 0.7	17.4	1.7	300
KAS3830	0.6	0.2	2.4	33	< 0.7	10.8	1.3	110
KAS3831	0.6	0.2	2.2	27	2.2	10.4	1.1	990
KAS3833	0.5	0.2	2.2	46	< 0.7	11.5	1.2	370
KAS3775	0.7	0.3	3.1	61	< 0.7	18.7	1.8	900
KAS3874	0.6	0.4	4.0	161	< 0.7	24.6	2.3	2640
KAS3875	0.8	0.2	3.0	30	< 0.7	14.0	1.3	940
KAS3876	1.1	0.4	3.8	69	< 0.7	22.6	2.1	1600
KAS3877	1.5	0.3	3.6	35	12.1	16.2	1.5	1870
KAS3878	1.9	0.2	2.5	17	< 0.7	14.7	1.4	390
KAS3879	2.0	0.3	3.1	37	113	20.0	1.8	330
KAS3880	0.7	0.2	2.4	46	< 0.7	13.2	1.3	750
KAS3882	0.9	0.4	2.9	66	8.2	22.1	2.4	860
KAS3883	0.6	0.4	2.7	68	0.9	22.7	2.5	890
KAS3448	0.4	0.1	1.5	34	< 0.7	8.3	0.9	110
KAS4350	0.4	0.3	1.5	40	< 0.7	19.3	1.9	120
KAS3146	0.8	0.3	1.9	55	< 0.7	22.3	2.2	390
KAS3873	0.7	0.4	2.7	80	0.9	23.5	2.5	1280
KAS3610	0.7	0.4	3.7	104	10.7	24.3	2.5	240
KAS2888	0.6	0.2	2.1	59	4.1	11.8	1.2	180
KAS3230	0.9	0.4	2.8	76	< 0.7	24.4	2.6	420
KAS3206	0.7	0.3	2.3	69	10.8	16.2	1.8	150
KAS3207	0.5	0.3	3.3	67	< 0.7	20.4	2.1	3610
KAS3498	0.5	0.2	1.8	46	< 0.7	14.3	1.5	180
KAS3790	0.5	0.2	2.5	69	5.9	14.8	1.7	1050
KAS3791	0.5	0.3	2.4	75	< 0.7	14.2	1.7	950
KAS3792	0.5	0.2	2.3	68	133	14.4	1.7	840
KAS3793	0.6	0.2	2.3	63	2.5	14.8	1.7	810
KAS3299	0.7	0.2	2.2	59	< 0.7	9.3	1.3	130
KAS3060	0.5	0.3	2.4	63	< 0.7	20.0	2.1	200

Quality Control

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	10	0.2	0.2	0.1
Analysis Method	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS- Na2O2
GXR-1 Meas		438	10	792	< 3	1560	0.92	3	16.3	8.4	< 30	2.7	1210	4.9		0.7	25.6	15.1	4.4		< 10		0.9	< 0.1
GXR-1 Cert		427	15.0	750	1.22	1380	0.960	3.30	17.0	8.20	12.0	3.00	1110	4.30		0.690	23.6	13.8	4.20		0.960		0.770	0.050
GXR-1 Meas		454	10	812	< 3	1470		3	15.5	8.7	< 30	2.8	1190	4.3		0.7		14.2	4.4		< 10		0.7	
GXR-1 Cert		427	15.0	750	1.22	1380		3.30	17.0	8.20	12.0	3.00	1110	4.30		0.690		13.8	4.20		0.960		0.770	
GXR-4 Meas	7.37	94	< 10	1790	< 3	17	0.95	< 2	114	14.5	60	2.7	6550	2.9		1.7	3.10	20.2	5.6		< 10		< 0.2	4.0
GXR-4 Cert	7.20	98.0	4.50	1640	1.90	19.0	1.01	0.860	102	14.6	64.0	2.80	6520	2.60		1.63	3.09	20.0	5.25		6.30		0.270	4.01
GXR-4 Meas	7.42	88	< 10	1690	< 3	19	1.02	< 2	117		50	2.5	7110	2.8		1.6	3.09	19.6	5.6		< 10		0.2	3.9
GXR-4 Cert	7.20	98.0	4.50	1640	1.90	19.0	1.01	0.860	102		64.0	2.80	6520	2.60		1.63	3.09	20.0	5.25		6.30		0.270	4.01
NIST 696 Meas	> 25.0										290													
NIST 696 Cert	28.9										321.0													
NIST 696 Meas	> 25.0										310													
NIST 696 Cert	28.9										321.0													
MP-1b Meas		25400				1130	2.45	555					32200				8.04						663	
MP-1b Cert		23000.00				954.0000	2.47	527.0000					30690.000				8.19						565	
MP-1b Meas		24300				969	2.53	540					32100				8.00						617	
MP-1b Cert		23000.00				954.0000	2.47	527.0000					30690.000				8.19						565	
MP-1b Meas		22500				953	2.57	502					30000				8.02						577	
MP-1b Cert		23000.00				954.0000	2.47	527.0000					30690.000				8.19						565	
MP-1b Meas		24600				877	2.58	533					30700				8.06						610	
MP-1b Cert		23000.00				954.0000	2.47	527.0000					30690.000				8.19						565	
OREAS 101a (Fusion) Meas									1370	48.7			446	33.7	20.6	8.5	11.2		44.8			6.9		2.4
OREAS 101a (Fusion) Cert									1396	48.8			434	33.3	19.5	8.06	11.06		43.4			6.46		2.34
OREAS 101a (Fusion) Meas									1270	51.0				31.6	19.1	7.7	11.0		41.0			6.4		2.3
OREAS 101a (Fusion) Cert									1396	48.8				33.3	19.5	8.06	11.06		43.4			6.46		2.34
KAS1249 Orig	5.58	44	270	497	< 3	< 2	0.90	< 2	69.4	19.2	110	5.4	50	3.7	2.8	1.1	3.84	14.6	5.5	8.4	< 10	0.9	< 0.2	3.0
KAS1249 Dup	5.55	36	250	434	< 3	< 2	0.89	< 2	62.5	16.3	90	4.9	56	3.4	2.6	1.1	3.84	12.8	5.1	6.6	< 10	0.9	< 0.2	3.0
KAS00092 Orig	3.00	174	120	248	< 3	< 2	12.1	7	39.2	9.7	90	2.3	45	1.4	1.6	0.6	1.81	7.3	2.9	4.8	< 10	0.5	< 0.2	2.5
KAS00092 Dup	3.01	177	120	247	< 3	8	12.2	7	38.7	11.1	90	1.1	46	1.3	1.5	0.6	1.83	7.4	3.1	6.4	< 10	0.5	< 0.2	2.6
KAS1020 Orig	5.65	15	240	441	< 3	< 2	2.40	< 2	70.6	17.2	110	4.5	58	4.5	2.9	1.2	3.82	14.9	5.8	7.2	< 10	1.0	< 0.2	3.4
KAS1020 Dup	5.70	10	240	442	< 3	< 2	2.41	< 2	71.0	15.0	150	4.5	73	4.5	2.9	1.4	3.84	14.7	5.8	7.8	< 10	1.0	< 0.2	3.4
KAS1051 Orig	4.51	22	450	230	< 3	< 2	16.5	< 2	39.8	7.5	70	1.7	22	3.3	2.2	0.8	3.69	8.1	4.0	5.5	< 10	0.7	< 0.2	2.1
KAS1051 Dup	4.58	28	450	228	< 3	< 2	16.9	< 2	39.9	8.2	90	1.7	22	3.3	2.3	0.8	3.77	8.1	4.1	6.2	< 10	0.8	< 0.2	2.1
KAS3979 Orig	4.47	50	160	314	< 3	5	6.03	4	52.3	20.7	110	2.5	183	3.4	2.1	1.1	8.24	11.7	4.4	9.6	< 10	0.7	0.2	2.8
KAS3979 Dup	4.46	52	160	321	< 3	5	6.04	4	53.5	20.7	110	2.5	183	3.6	2.1	1.2	8.25	11.8	4.5	6.5	< 10	0.7	0.2	2.8
KAS3874 Orig	7.28	37	300	284	3	< 2	2.95	11	81.5	29.5	120	3.8	218	4.8	2.9	1.7	7.03	19.3	6.2	9.4	< 10	1.0	< 0.2	3.7
KAS3874 Dup	7.25	38	310	296	< 3	< 2	2.98	11	85.7	30.9	120	4.1	232	5.0	3.0	1.8	7.00	20.1	6.6	8.7	< 10	1.0	< 0.2	3.8
KAS4350 Orig	4.35	18	170	363	< 3	< 2	7.31	< 2	41.7	44.3	100	2.1	< 2	2.9	1.9	0.8	3.24	10.7	3.6	3.5	< 10	0.6	< 0.2	2.7
KAS4350 Dup	4.40	31	170	387	< 3	< 2	7.52	< 2	46.5	23.4	130	2.3	< 2	3.1	2.1	0.9	3.25	11.6	3.9	3.4	< 10	0.7	< 0.2	2.7
KAS3791 Orig	5.63	28	240	330	< 3	< 2	5.82	4	57.0	12.0	70	2.5	100	2.6	1.8	0.9	4.33	15.0	3.7	4.1	< 10	0.6	< 0.2	3.9
KAS3791 Dup	5.61	29	290	313	< 3	< 2	5.88	4	53.1	11.7	80	2.4	95	2.4	1.6	0.8	4.35	14.6	3.5	7.5	< 10	0.5	< 0.2	3.9
Method Blank	< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	< 0.2	< 30	< 0.1	< 2	< 0.3	< 0.1	< 0.1	< 0.05	< 0.2	< 0.1	< 0.7	< 10	< 0.2	< 0.2	< 0.1
Method Blank	< 0.01						< 0.01										< 0.05							< 0.1
Method Blank	< 0.01						< 0.01										< 0.05							< 0.1
Method Blank	< 0.01						0.02										< 0.05							0.1

Quality Control																									
Analyte Symbol	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
Detection Limit	0.4	3	0.01	3	1	2.4	0.4	10	0.005	0.8	0.1	0.4	0.01	2	0.8	0.01	0.1	0.5	3	0.2	0.1	6	0.1	0.01	
Analysis Method	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	
GXR-1 Meas	7.1	10	0.23	935	15	< 2.4		40	0.065	791				132	17.7		3.1	59.6	308	< 0.2	0.8	17	2.6		
GXR-1 Cert	7.50	8.20	0.217	852	18.0	0.800		41.0	0.0650	730				122	16.6		2.70	54.0	275	0.175	0.830	13.0	2.44		
GXR-1 Meas	7.6	8		886	18	< 2.4		40		781				134	18.2		3.0	58.4	279	< 0.2	0.8	15	2.5		
GXR-1 Cert	7.50	8.20		852	18.0	0.800		41.0		730				122	16.6		2.70	54.0	275	0.175	0.830	13.0	2.44		
GXR-4 Meas	67.5	12	1.70	146	348	8.6	45.1	40		48.1		157	1.81	5	6.3		6.9	6.1	236	0.7	0.3	< 6	23.5		
GXR-4 Cert	64.5	11.1	1.66	155	310	10.0	45.0	42.0		52.0		160	1.77	4.80	5.60		6.60	5.60	221	0.790	0.360	0.970	22.5		
GXR-4 Meas	64.9	14	1.68	152	334	10.4	45.6	50		57.0		153	1.81	3	6.3		7.0		240	0.8	0.6	< 6	24.3		
GXR-4 Cert	64.5	11.1	1.66	155	310	10.0	45.0	42.0		52.0		160	1.77	4.80	5.60		6.60		221	0.790	0.360	0.970	22.5		
NIST 696 Meas																									
NIST 696 Cert																									
NIST 696 Meas																									
NIST 696 Cert																									
MP-1b Meas					333					22500			13.9	57		17.6		18300							
MP-1b Cert					285					20910.000			13.79	54.0		16.79		16100.000							
MP-1b Meas					312					21500			13.9	58		17.7		17200							
MP-1b Cert					285					20910.000			13.79	54.0		16.79		16100.000							
MP-1b Meas					267					22400			13.6	50		17.4		15900							
MP-1b Cert					285					20910.000			13.79	54.0		16.79		16100.000							
MP-1b Meas					298					20400			13.8	54		17.6		14700							
MP-1b Cert					285					20910.000			13.79	54.0		16.79		16100.000							
OREAS 101a (Fusion) Meas	836		1.17	975	21		403		0.124		132						51.4				5.3		34.1	0.40	
OREAS 101a (Fusion) Cert	816		1.23	964	21.9		403		0		134						48.8				5.92		36.6	0.395	
OREAS 101a (Fusion) Meas	772		1.16	961			364		0.127		119						46.6				5.2		32.9	0.40	
OREAS 101a (Fusion) Cert	816		1.23	964			403		0		134						48.8				5.92		36.6	0.395	
KAS1249 Orig	33.0	58	2.10	1830	< 1	9.0	29.7	40	0.082	54.3	7.9	127	0.03	6	20.3	26.4	5.8	2.1	24	1.2	0.8	< 6	11.1	0.28	
KAS1249 Dup	29.5	51	2.09	1580	< 1	7.9	27.0	40	0.083	50.0	7.1	111	0.07	6	12.3	26.4	5.3	1.7	18	1.1	0.7	< 6	10.0	0.28	
KAS00092 Orig	19.6	24	7.09	1430	6	5.1	17.2	30	0.112	408	4.4	62.6	0.07	36	12.2	15.9	3.0	3.1	25	1.6	0.4	< 6	6.1	0.16	
KAS00092 Dup	19.1	22	7.06	1430	1	4.1	17.4	30	0.117	417	4.3	56.9	0.06	26	11.7	16.0	3.0	1.5	28	0.5	0.4	< 6	5.8	0.16	
KAS1020 Orig	35.3	67	2.40	1950	< 1	11.3	32.7	30	0.053	735	8.4	105	0.04	7	< 0.8	27.7	6.1	2.4	49	1.0	0.8	< 6	11.6	0.35	
KAS1020 Dup	35.8	55	2.40	1980	< 1	11.2	33.0	40	0.044	734	8.5	106	0.05	7	< 0.8	27.7	6.3	1.8	50	1.0	0.8	< 6	11.3	0.35	
KAS1051 Orig	22.2	25	9.87	1660	< 1	6.4	19.6	30	0.093	102	5.1	45.5	0.12	< 2	22.6	19.1	3.9	0.5	33	0.3	0.6	< 6	6.6	0.24	
KAS1051 Dup	22.3	24	9.95	1660	< 1	6.4	19.8	40	0.100	102	5.1	45.5	0.13	< 2	23.3	19.7	3.9	0.6	33	0.4	0.6	< 6	6.6	0.24	
KAS3979 Orig	24.8	34	3.64	6350	< 1	7.0	23.1	40	0.055	466	6.0	96.0	0.04	18	2.1	19.1	4.8	0.8	34	0.4	0.6	< 6	9.0	0.23	
KAS3979 Dup	25.1	34	3.63	6440	< 1	6.9	23.9	40	0.057	474	6.1	97.2	0.04	17	3.3	19.1	4.9	0.6	35	0.4	0.6	< 6	9.2	0.23	
KAS3874 Orig	40.8	41	2.57	2670	< 1	36.7	35.6	50	0.178	1640	9.2	132	0.03	9	9.8	24.7	6.6	1.1	28	3.2	0.8	< 6	10.6	0.91	
KAS3874 Dup	42.9	43	2.60	2810	< 1	38.7	37.6	50	0.177	1710	9.7	138	0.02	12	7.1	24.1	7.1	1.3	31	3.3	0.9	< 6	11.3	0.93	
KAS4350 Orig	23.7	34	4.39	2350	< 1	6.7	19.0	100	0.054	32.3	5.1	82.4	0.06	8	< 0.8	21.2	3.6	< 0.5	38	0.4	0.2	< 6	6.9	0.24	
KAS4350 Dup	25.1	35	4.42	2500	< 1	6.6	20.7	60	0.055	36.4	5.6	87.5	0.06	11	< 0.8	21.4	3.9	< 0.5	45	0.6	0.2	< 6	7.5	0.24	
KAS3791 Orig	30.8	42	3.98	2570	< 1	11.9	25.3	30	0.069	191	6.8	116	0.02	16	4.8	23.1	4.2	0.8	27	1.1	0.2	< 6	8.4	0.37	
KAS3791 Dup	28.7	42	4.00	2450	< 1	11.5	23.0	30	0.069	179	6.4	113	0.03	14	< 0.8	23.5	4.1	< 0.5	28	0.9	0.2	< 6	7.9	0.37	
Method Blank	< 0.4	< 3	< 0.01	< 3	< 1	< 2.4	< 0.4	< 10	< 0.005	< 0.8	< 0.1	< 0.4	< 0.01	< 2	< 0.8	< 0.01	< 0.1	< 0.5	< 3	< 0.2	< 0.1	< 6	< 0.1	< 0.01	
Method Blank			< 0.01						< 0.005				< 0.01			< 0.01								< 0.01	
Method Blank			< 0.01						< 0.005				0.02			< 0.01								< 0.01	
Method Blank			< 0.01						< 0.005				0.01			0.06								< 0.01	

Quality Control

Analyte Symbol	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Analysis Method	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2	FUS-MS- Na2O2
GXR-1 Meas	0.4	0.4	36.2	64	165	29.4	2.2	810
GXR-1 Cert	0.390	0.430	34.9	80.0	164	32.0	1.90	760
GXR-1 Meas	0.4	0.4	35.6	85	188	29.9	2.1	810
GXR-1 Cert	0.390	0.430	34.9	80.0	164	32.0	1.90	760
GXR-4 Meas	3.6	0.2	6.1	88	30.7	14.2	1.3	80
GXR-4 Cert	3.20	0.210	6.20	87.0	30.8	14.0	1.60	73.0
GXR-4 Meas	3.5	0.2	6.1	84	29.1	14.2	1.3	80
GXR-4 Cert	3.20	0.210	6.20	87.0	30.8	14.0	1.60	73.0
NIST 696 Meas				331				
NIST 696 Cert				403.0000				
NIST 696 Meas				372				
NIST 696 Cert				403.0000				
MP-1b Meas					1180			173000
MP-1b Cert					1100.000			166700.00
MP-1b Meas					1060			168000
MP-1b Cert					1100.000			166700.00
MP-1b Meas					1130			160000
MP-1b Cert					1100.000			166700.00
MP-1b Meas					1200			167000
MP-1b Cert					1100.000			166700.00
OREAS 101a (Fusion) Meas		3.0	427	72		172	19.3	
OREAS 101a (Fusion) Cert		2.90	422	83		183	17.5	
OREAS 101a (Fusion) Meas		2.8	414			164	17.8	
OREAS 101a (Fusion) Cert		2.90	422			183	17.5	
KAS1249 Orig	0.6	0.4	2.2	85	< 0.7	25.6	2.2	180
KAS1249 Dup	0.5	0.4	2.0	55	6.2	23.8	2.1	160
KAS00092 Orig	0.5	0.2	2.6	47	12.1	16.9	1.3	1200
KAS00092 Dup	0.4	0.2	3.4	43	2.4	16.7	1.3	1180
KAS1020 Orig	0.6	0.4	2.4	74	10.0	28.8	2.8	500
KAS1020 Dup	0.6	0.4	2.3	75	5.1	28.5	2.8	500
KAS1051 Orig	0.4	0.3	2.7	60	36.7	25.4	2.4	130
KAS1051 Dup	0.3	0.3	2.7	65	8.4	26.0	2.3	130
KAS3979 Orig	0.6	0.3	2.9	35	< 0.7	19.1	1.7	1070
KAS3979 Dup	0.6	0.3	2.9	41	< 0.7	19.2	1.8	1080
KAS3874 Orig	0.6	0.4	4.4	156	< 0.7	24.0	2.3	2580
KAS3874 Dup	0.6	0.4	3.6	166	< 0.7	25.2	2.4	2690
KAS4350 Orig	0.4	0.3	1.4	38	< 0.7	18.8	1.9	120
KAS4350 Dup	0.4	0.3	1.6	41	< 0.7	19.9	2.0	130
KAS3791 Orig	0.5	0.3	2.5	78	< 0.7	14.4	1.7	950
KAS3791 Dup	0.5	0.2	2.3	72	< 0.7	13.9	1.7	950
Method Blank	< 0.1	< 0.1	< 0.1	< 5	< 0.7	< 0.1	< 0.1	< 30
Method Blank								
Method Blank								
Method Blank								