



Date Submitted: 27-Sep-13

Invoice No.: A13-11691

Invoice Date: 10-Oct-13

Your Reference: NA19-21

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

ATTN: Chad Ulansky

## CERTIFICATE OF ANALYSIS

107 Vial samples were submitted for analysis.

The following analytical package was requested: Code 1D Enh INAA(INAAGEO)

REPORT **A13-11691**

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### Notes:

For values exceeding the upper limits we recommend assays.

CERTIFIED BY :

A handwritten signature in black ink, consisting of a series of loops and a long horizontal stroke at the end.

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](mailto:Ancaster@actlabs.com) ACTLABS GROUP WEBSITE [www.actlabs.com](http://www.actlabs.com)



**Activation Laboratories Ltd.      Report:    A13-11691**

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sn	Sr	Ta	Th
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm
Detection Limit	2	5	0.5	50	0.5	1	1	5	1	0.01	1	1	5	1	0.01	20	15	0.1	0.1	3	0.02	0.05	0.5	0.2
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
KAS4253	< 2	< 5	9.5	410	13.3	14	10	72	1	2.21	< 1	< 1	< 5	< 1	0.09	< 20	43	1.6	5.7	< 3	< 0.02	< 0.05	< 0.5	6.9
KAS4254	< 2	< 5	13.7	580	15.5	11	12	100	< 1	2.81	6	< 1	< 5	< 1	0.12	< 20	79	2.4	7.2	< 3	< 0.02	< 0.05	< 0.5	11.8
KAS4255	< 2	< 5	21.2	720	13.1	< 1	17	145	< 1	3.75	6	< 1	< 5	< 1	0.19	< 20	136	2.4	9.5	< 3	< 0.02	< 0.05	< 0.5	14.5
KAS4256	< 2	< 5	18.9	1150	17.8	< 1	18	229	7	4.72	6	< 1	< 5	< 1	0.57	< 20	133	2.8	11.7	< 3	< 0.02	< 0.05	< 0.5	12.7
KAS4257	< 2	< 5	21.9	480	17.9	< 1	15	175	3	4.01	7	< 1	< 5	< 1	0.14	< 20	56	2.0	9.4	< 3	< 0.02	< 0.05	< 0.5	13.0
KAS4258	< 2	< 5	17.8	560	18.0	< 1	12	183	< 1	3.98	4	< 1	< 5	< 1	0.16	< 20	82	2.6	9.4	< 3	< 0.02	< 0.05	< 0.5	14.0
KAS4259	< 2	< 5	16.7	740	29.4	< 1	11	153	3	4.40	7	< 1	< 5	< 1	0.27	< 20	78	2.2	9.8	< 3	< 0.02	< 0.05	< 0.5	10.4
KAS4260	< 2	< 5	16.9	430	16.9	7	18	137	2	3.05	5	< 1	< 5	< 1	0.17	< 20	85	2.7	7.3	< 3	< 0.02	< 0.05	< 0.5	9.4
KAS4261	< 2	< 5	23.8	900	19.3	< 1	16	121	< 1	4.69	8	< 1	< 5	< 1	0.40	< 20	135	2.7	10.4	< 3	< 0.02	< 0.05	< 0.5	12.9
KAS4262	< 2	< 5	16.3	380	13.8	8	22	96	< 1	2.90	6	< 1	< 5	< 1	0.10	< 20	80	2.3	7.5	< 3	< 0.02	< 0.05	< 0.5	10.7
KAS4263	7	< 5	12.3	< 50	8.8	11	8	69	< 1	2.05	3	< 1	< 5	< 1	0.07	< 20	44	1.8	5.7	< 3	< 0.02	< 0.05	< 0.5	7.2
KAS4264	< 2	< 5	13.8	900	39.0	2	13	104	< 1	3.07	4	< 1	< 5	< 1	0.22	< 20	111	2.2	8.4	< 3	< 0.02	< 0.05	< 0.5	10.3
KAS4265	12	< 5	27.9	< 50	13.5	7	11	94	6	2.59	4	< 1	< 5	< 1	0.11	< 20	75	3.2	6.3	< 3	< 0.02	< 0.05	< 0.5	9.4
KAS4266	< 2	< 5	14.5	500	33.9	7	14	115	6	3.01	4	< 1	< 5	< 1	0.19	< 20	< 15	2.3	8.0	< 3	< 0.02	< 0.05	< 0.5	11.4
KAS4267	< 2	< 5	12.6	240	8.3	12	7	65	< 1	1.99	3	< 1	< 5	< 1	0.08	< 20	55	2.0	5.4	< 3	< 0.02	< 0.05	< 0.5	7.3
KAS4274	< 2	< 5	14.7	500	25.2	< 1	15	136	4	4.10	4	< 1	< 5	< 1	0.26	< 20	74	2.6	10.1	< 3	< 0.02	< 0.05	< 0.5	12.1
KAS4275	< 2	< 5	8.8	< 50	13.1	12	9	89	< 1	2.71	3	< 1	< 5	< 1	0.10	< 20	58	1.2	6.1	< 3	< 0.02	< 0.05	< 0.5	7.5
KAS4276	< 2	< 5	15.6	450	29.3	< 1	13	157	5	3.62	4	< 1	< 5	< 1	0.26	< 20	66	2.1	9.2	< 3	< 0.02	< 0.05	< 0.5	9.4
KAS4531	< 2	< 5	7.2	500	8.5	12	9	62	3	1.99	3	< 1	< 5	< 1	0.05	< 20	80	1.7	6.6	< 3	< 0.02	< 0.05	< 0.5	8.6
KAS4532	< 2	< 5	7.8	440	9.2	10	12	63	5	1.94	4	< 1	< 5	< 1	0.05	< 20	105	1.7	6.4	< 3	< 0.02	< 0.05	< 0.5	8.7
KAS4170	< 2	< 5	27.0	1050	23.1	< 1	17	140	2	4.20	4	< 1	< 5	< 1	0.35	< 20	101	3.0	10.3	< 3	< 0.02	< 0.05	< 0.5	14.3
KAS4171	< 2	< 5	21.0	610	32.6	< 1	18	166	5	4.84	5	< 1	< 5	< 1	0.29	< 20	83	2.5	11.1	< 3	< 0.02	< 0.05	< 0.5	11.3
KAS4172	< 2	< 5	11.5	190	9.7	19	7	42	< 1	2.01	2	< 1	< 5	< 1	0.08	< 20	< 15	1.4	4.3	< 3	< 0.02	< 0.05	< 0.5	5.5
KAS4173	< 2	< 5	17.0	590	15.4	8	10	144	2	3.18	4	< 1	< 5	< 1	0.14	< 20	62	2.8	7.5	< 3	< 0.02	< 0.05	< 0.5	8.8
KAS4174	< 2	< 5	27.2	820	22.1	< 1	17	123	< 1	4.35	5	< 1	< 5	< 1	0.21	< 20	95	3.3	9.9	< 3	< 0.02	< 0.05	< 0.5	12.1
KAS4175	< 2	< 5	10.1	320	15.1	12	10	102	< 1	2.35	5	< 1	< 5	< 1	0.11	< 20	46	3.0	6.1	< 3	< 0.02	< 0.05	< 0.5	8.0
KAS4176	< 2	< 5	11.2	650	19.3	3	14	181	2	3.60	4	< 1	< 5	< 1	0.15	< 20	85	2.0	8.4	< 3	< 0.02	< 0.05	< 0.5	11.0
KAS4177	< 2	< 5	14.0	430	15.6	5	13	154	< 1	3.10	4	< 1	< 5	< 1	0.12	< 20	56	2.0	7.7	< 3	< 0.02	< 0.05	< 0.5	9.0
KAS4178	< 2	< 5	17.5	780	21.8	1	16	122	4	3.97	8	< 1	< 5	< 1	0.16	< 20	98	2.4	10.9	< 3	< 0.02	< 0.05	< 0.5	13.7
KAS4179	< 2	< 5	5.3	370	10.2	17	8	64	2	1.77	3	< 1	< 5	< 1	0.05	< 20	33	1.6	5.4	< 3	< 0.02	< 0.05	< 0.5	5.9
KAS4521	< 2	< 5	18.2	590	10.3	7	19	101	6	2.10	5	< 1	< 5	< 1	0.07	< 20	119	2.9	7.9	< 3	< 0.02	< 0.05	< 0.5	11.4
KAS4522	< 2	< 5	13.1	< 50	11.8	13	16	75	6	1.95	4	< 1	< 5	< 1	0.07	< 20	109	2.2	7.1	< 3	< 0.02	< 0.05	< 0.5	10.5
KAS4523	< 2	< 5	13.4	320	9.7	13	12	60	2	1.71	3	< 1	< 5	< 1	0.05	< 20	66	1.7	4.9	< 3	< 0.02	< 0.05	< 0.5	7.1
KAS4524	< 2	< 5	9.6	280	10.6	10	9	56	4	1.47	2	< 1	< 5	< 1	0.06	< 20	54	1.6	5.3	< 3	< 0.02	< 0.05	< 0.5	6.5
KAS4525	6	< 5	17.0	420	15.9	9	18	107	3	1.77	5	< 1	< 5	< 1	0.14	< 20	68	3.3	6.4	< 3	< 0.02	< 0.05	< 0.5	11.0
KAS4526	< 2	< 5	11.7	340	20.7	9	9	106	< 1	1.78	3	< 1	< 5	< 1	0.10	< 20	76	2.8	5.7	< 3	< 0.02	< 0.05	< 0.5	8.5
KAS4527	< 2	< 5	12.0	320	17.0	8	9	115	< 1	2.55	3	< 1	< 5	< 1	0.08	< 20	76	1.8	6.3	< 3	< 0.02	< 0.05	< 0.5	8.9
KAS4528	< 2	< 5	6.5	360	13.1	6	7	81	< 1	1.80	3	< 1	< 5	< 1	0.05	< 20	96	1.7	6.6	< 3	< 0.02	< 0.05	< 0.5	8.7
KAS4529	< 2	< 5	4.7	380	12.0	11	6	58	2	1.52	2	< 1	< 5	< 1	0.04	< 20	81	1.1	5.7	< 3	< 0.02	< 0.05	< 0.5	6.8
KAS4530	< 2	< 5	5.7	610	9.9	12	9	59	5	1.73	4	< 1	< 5	< 1	0.06	< 20	55	1.3	6.2	< 3	< 0.02	< 0.05	< 0.5	8.5
KAS3643	< 2	< 5	10.2	720	21.9	< 1	23	173	6	2.94	6	< 1	< 5	2	0.29	< 20	104	1.8	9.9	< 3	< 0.02	< 0.05	< 0.5	13.2
KAS3644	< 2	< 5	13.9	770	28.5	< 1	21	191	7	4.29	5	< 1	< 5	< 1	0.36	< 20	79	3.1	10.3	< 3	< 0.02	< 0.05	< 0.5	14.0
KAS3645	< 2	< 5	12.8	320	34.9	< 1	13	53	5	3.68	3	< 1	< 5	< 1	0.24	< 20	95	3.3	8.7	< 3	< 0.02	< 0.05	< 0.5	9.8
KAS3646	< 2	< 5	17.8	600	27.3	< 1	17	165	5	4.39	7	< 1	< 5	< 1	0.26	< 20	104	3.2	10.1	< 3	< 0.02	< 0.05	< 0.5	14.2
KAS3647	< 2	< 5	22.3	500	37.4	< 1	16	56	5	4.85	4	< 1	< 5	< 1	0.24	< 20	78	3.5	9.5	< 3	< 0.02	< 0.05	< 0.5	10.6
KAS3648	< 2	< 5	51.8	< 50	21.6	< 1	19	206	8	4.44	4	< 1	< 5	< 1	0.14	< 20	134	4.5	9.2	< 3	< 0.02	< 0.05	< 0.5	13.0
KAS3649	< 2	< 5	33.5	510	21.8	3	26	189	3	4.15	5	< 1	< 5	4	0.14	< 20	153	4.3	9.6	< 3	< 0.02	< 0.05	< 0.5	14.9
KAS4149	< 2	< 5	< 0.5	< 50	1.5	< 1	2	512	< 1	0.39	< 1	< 1	< 5	< 1	0.01	< 20	< 15	0.8	0.1	< 3	< 0.02	< 0.05	< 0.5	0.9
KAS4227	< 2	< 5	15.5	380	10.7	7	11	111	< 1	2.84	4	< 1	< 5	< 1	0.07	< 20	73	3.2	6.9	< 3	< 0.02	< 0.05	< 0.5	9.9
KAS4228	< 2	< 5	12.9	600	17.9	< 1	10	89	5	3.28	4	< 1	< 5	< 1	0.30	< 20	72	2.4	8.7	< 3	< 0.02	< 0.05	< 0.5	9.2
KAS4229	< 2	< 5	11.1	510	13.0	< 1	13	172	5	3.10	7	< 1	< 5	< 1	0.15	< 20	90	2.6	7.7	< 3	< 0.02	< 0.05	< 0.5	13.7
KAS4230	< 2	< 5	11.3	580	15.9	< 1	13	115	5	2.99	6	< 1	< 5	< 1	0.2									

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Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sn	Sr	Ta	Th
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm
Detection Limit	2	5	0.5	50	0.5	1	1	5	1	0.01	1	1	5	1	0.01	20	15	0.1	0.1	3	0.02	0.05	0.5	0.2
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
KAS4231	< 2	< 5	13.4	530	19.5	< 1	12	121	4	2.99	5	< 1	< 5	< 1	0.15	< 20	67	2.2	8.0	< 3	< 0.02	< 0.05	< 0.5	11.4
KAS4232	4	< 5	12.4	400	12.4	6	10	100	5	2.40	5	< 1	< 5	< 1	0.10	< 20	81	2.3	7.5	< 3	< 0.02	< 0.05	< 0.5	10.9
KAS4233	< 2	< 5	10.7	330	14.5	10	7	102	6	2.30	5	< 1	< 5	< 1	0.08	< 20	88	1.8	5.7	< 3	< 0.02	< 0.05	< 0.5	8.4
KAS4234	< 2	< 5	6.9	340	16.5	4	10	164	5	2.67	5	< 1	< 5	< 1	0.16	< 20	60	1.4	6.9	< 3	< 0.02	< 0.05	< 0.5	8.3
KAS4581	< 2	< 5	11.5	1450	11.8	2	15	151	5	2.93	5	< 1	< 5	< 1	0.13	< 20	136	2.0	8.3	< 3	< 0.02	< 0.05	< 0.5	12.2
KAS4582	< 2	< 5	8.9	1020	9.4	5	10	105	4	2.36	4	< 1	< 5	< 1	0.08	< 20	80	1.4	7.0	< 3	< 0.02	< 0.05	< 0.5	9.2
KAS4583	< 2	< 5	10.6	940	10.9	5	13	115	3	2.28	4	< 1	< 5	< 1	0.07	< 20	93	1.4	7.7	< 3	< 0.02	< 0.05	< 0.5	12.0
KAS4584	< 2	< 5	14.0	910	10.9	5	13	87	5	2.00	3	< 1	< 5	< 1	0.05	< 20	124	1.7	6.9	< 3	< 0.02	< 0.05	< 0.5	10.0
KAS4579	< 2	< 5	14.9	1240	15.0	< 1	22	138	7	3.11	5	< 1	< 5	< 1	0.13	< 20	62	2.4	9.0	< 3	< 0.02	< 0.05	< 0.5	13.2
KAS4580	< 2	< 5	16.9	1190	12.6	4	20	132	4	2.40	4	< 1	< 5	< 1	0.13	< 20	85	2.5	8.8	< 3	< 0.02	< 0.05	< 0.5	12.0
KAS4586	< 2	< 5	18.3	720	16.9	8	17	129	5	2.32	4	< 1	< 5	< 1	0.12	< 20	93	2.3	7.2	< 3	< 0.02	< 0.05	< 0.5	8.7
KAS4587	< 2	< 5	17.5	670	13.2	2	25	156	7	2.61	6	< 1	< 5	< 1	0.14	< 20	103	2.2	8.6	< 3	< 0.02	< 0.05	< 0.5	12.3
KAS4588	< 2	< 5	14.9	370	12.6	11	14	76	< 1	2.24	5	< 1	< 5	< 1	0.08	< 20	110	1.9	6.3	< 3	< 0.02	< 0.05	< 0.5	9.0
KAS4712	< 2	< 5	24.6	340	11.7	6	16	87	4	3.03	4	< 1	< 5	2	0.05	< 20	85	4.1	7.8	< 3	< 0.02	< 0.05	< 0.5	12.1
KAS4713	< 2	< 5	24.2	< 50	11.9	11	15	77	7	3.32	6	< 1	< 5	< 1	0.07	< 20	71	1.9	8.7	< 3	< 0.02	< 0.05	< 0.5	13.8
KAS4714	< 2	< 5	11.6	< 50	12.0	7	10	81	5	2.97	4	< 1	< 5	3	0.05	< 20	90	1.2	8.3	< 3	< 0.02	< 0.05	< 0.5	12.8
KAS4715	< 2	< 5	8.6	< 50	14.4	9	9	66	< 1	2.68	3	< 1	< 5	< 1	0.06	< 20	74	1.2	6.9	< 3	< 0.02	< 0.05	< 0.5	7.5
KAS4716	< 2	< 5	9.9	260	19.8	5	8	101	5	3.27	5	< 1	< 5	< 1	0.08	< 20	112	1.2	8.1	< 3	< 0.02	< 0.05	< 0.5	10.2
KAS4717	< 2	< 5	30.7	330	19.2	2	17	95	5	3.94	6	< 1	< 5	1	0.18	< 20	159	2.8	9.8	< 3	< 0.02	< 0.05	< 0.5	14.3
KAS4718	< 2	< 5	12.3	370	23.2	9	10	81	4	3.73	4	< 1	< 5	< 1	0.19	< 20	83	2.8	5.8	< 3	< 0.02	< 0.05	< 0.5	7.6
KAS4719	< 2	< 5	20.4	310	20.4	10	11	105	< 1	4.62	3	< 1	< 5	< 1	0.11	< 20	120	6.6	4.9	< 3	< 0.02	< 0.05	< 0.5	7.5
KAS4720	< 2	< 5	10.1	540	15.3	9	13	115	7	2.57	5	< 1	< 5	< 1	0.09	< 20	91	2.2	7.1	< 3	< 0.02	< 0.05	< 0.5	9.1
KAS4721	< 2	< 5	16.0	330	17.0	< 1	16	116	4	2.85	9	< 1	< 5	< 1	0.15	< 20	142	3.5	8.4	< 3	< 0.02	< 0.05	< 0.5	12.0
KAS4722	< 2	< 5	12.4	470	17.5	< 1	15	140	7	2.84	6	< 1	< 5	3	0.11	< 20	122	2.8	8.4	< 3	< 0.02	< 0.05	< 0.5	11.0
KAS4723	< 2	< 5	12.5	460	13.5	7	15	115	4	2.28	4	< 1	< 5	< 1	0.11	< 20	91	2.4	7.7	< 3	< 0.02	< 0.05	< 0.5	11.7
KAS4724	< 2	< 5	13.0	480	18.3	< 1	19	153	8	3.04	5	< 1	< 5	< 1	0.13	< 20	126	3.0	8.8	< 3	< 0.02	< 0.05	< 0.5	11.9
KAS4938	< 2	< 5	80.2	680	9.1	< 1	15	209	6	3.25	9	< 1	< 5	< 1	0.17	< 20	154	2.8	8.4	< 3	< 0.02	< 0.05	< 0.5	11.6
KAS4939	< 2	< 5	196	630	14.4	< 1	14	278	9	3.81	10	< 1	< 5	< 1	0.17	< 20	227	3.7	9.9	< 3	< 0.02	< 0.05	< 0.5	14.2
KAS1865	< 2	< 5	12.4	< 50	21.4	3	16	107	< 1	3.47	4	< 1	< 5	< 1	0.17	< 20	< 15	1.5	8.4	< 3	< 0.02	< 0.05	< 0.5	8.1
KAS2263	< 2	< 5	16.8	520	43.1	< 1	12	114	6	3.81	6	< 1	< 5	< 1	0.47	< 20	< 15	1.7	9.3	< 3	< 0.02	< 0.05	< 0.5	8.9
KAS2269	< 2	< 5	15.2	460	34.7	< 1	14	185	3	3.81	6	< 1	< 5	< 1	0.36	< 20	93	1.9	8.3	< 3	< 0.02	< 0.05	< 0.5	11.4
KAS2270	< 2	< 5	11.6	280	20.7	13	7	87	< 1	1.96	3	1	< 5	< 1	0.13	< 20	57	3.9	4.6	< 3	< 0.02	< 0.05	< 0.5	5.8
KAS2271	< 2	< 5	11.5	280	20.9	11	10	89	2	2.47	4	< 1	< 5	< 1	0.19	< 20	61	2.6	5.5	< 3	< 0.02	< 0.05	< 0.5	6.4
KAS4119	< 2	< 5	15.2	560	25.9	< 1	11	126	< 1	3.73	6	< 1	< 5	8	0.28	< 20	128	2.3	9.3	< 3	< 0.02	< 0.05	< 0.5	11.2
KAS4120	< 2	< 5	14.2	560	18.7	< 1	10	127	6	3.64	6	< 1	< 5	2	0.32	< 20	132	2.0	8.8	< 3	< 0.02	< 0.05	< 0.5	10.8
KAS4121	< 2	< 5	19.2	590	15.9	< 1	14	103	5	3.69	5	< 1	< 5	< 1	0.32	< 20	77	2.1	8.7	< 3	< 0.02	< 0.05	< 0.5	11.2
KAS4122	< 2	< 5	17.6	690	16.7	< 1	10	112	5	3.79	4	< 1	< 5	< 1	0.20	< 20	142	2.0	9.2	< 3	< 0.02	< 0.05	< 0.5	11.3
KAS4123	4	< 5	12.0	620	15.5	3	12	99	< 1	3.19	6	< 1	< 5	< 1	0.19	< 20	121	2.0	7.7	< 3	< 0.02	< 0.05	< 0.5	10.1
KAS4124	< 2	< 5	10.4	280	14.1	8	9	95	< 1	2.80	4	< 1	< 5	2	0.11	< 20	123	1.6	6.9	< 3	< 0.02	< 0.05	< 0.5	9.1
KAS4125	< 2	< 5	10.3	320	19.2	6	9	112	7	3.10	4	< 1	< 5	< 1	0.13	< 20	93	1.5	7.5	< 3	< 0.02	< 0.05	< 0.5	9.1
KAS4126	< 2	< 5	10.4	370	12.8	5	10	119	4	3.41	3	< 1	< 5	< 1	0.12	< 20	91	1.9	8.2	< 3	0.09	< 0.05	< 0.5	10.5
KAS4127	< 2	< 5	10.5	410	14.6	< 1	13	154	3	3.93	5	< 1	< 5	< 1	0.11	< 20	113	1.4	9.2	< 3	< 0.02	< 0.05	< 0.5	11.9
KAS4128	< 2	< 5	11.7	210	13.3	10	< 1	103	< 1	2.45	4	< 1	< 5	< 1	0.09	< 20	97	1.5	5.6	< 3	< 0.02	< 0.05	< 0.5	8.4
KAS4129	< 2	< 5	18.1	< 50	12.7	15	11	96	< 1	2.37	3	< 1	< 5	< 1	0.08	< 20	57	2.8	5.4	< 3	< 0.02	< 0.05	< 0.5	8.1
KAS4130	< 2	< 5	21.2	260	13.3	11	9	90	3	2.50	3	< 1	< 5	9	0.11	< 20	77	2.8	5.6	< 3	< 0.02	< 0.05	< 0.5	8.8
KAS4131	< 2	< 5	13.8	< 50	7.5	13	8	62	< 1	2.21	2	< 1	< 5	< 1	0.09	< 20	97	2.0	5.2	< 3	0.05	< 0.05	< 0.5	8.0
KAS4132	< 2	< 5	20.9	< 50	10.4	14	7	75	< 1	2.28	4	< 1	< 5	< 1	0.09	< 20	60	2.8	5.3	< 3	< 0.02	< 0.05	< 0.5	6.8
KAS4585	< 2	< 5	17.2	530	20.4	< 1	< 1	182	6	3.07	6	< 1	< 5	< 1	0.13	< 20	148	4.2	8.6	< 3	< 0.02	< 0.05	< 0.5	14.0
KAS1929	12	< 5	18.2	< 50	26.2	6	15	95	4	4.03	3	< 1	< 5	< 1	0.17	< 20	109	5.1	7.5	< 3	< 0.02	< 0.05	< 0.5	8.6
KAS1930	< 2	< 5	11.2	< 50	14.6	11	7	75	< 1	2.31	2	< 1	< 5	< 1	0.09	< 20	92	2.6	4.2	< 3	0.05	< 0.05	< 0.5	5.8
KAS2439	< 2	< 5	11.0	180	25.9	13	< 1	50	< 1	3.00	2	< 1	< 5	< 1	0.14	230	34	3.2	3.0	< 3	< 0.02	< 0.05	< 0.5	3.1
KAS2440	< 2	< 5	5.9	< 50	14.7	20	< 1	39	< 1	2.60	< 1	< 1	< 5	< 1	0.07	< 20	< 15	22.6	1.					

Activation Laboratories Ltd.

Report: A13-11691

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sn	Sr	Ta	Th
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
Detection Limit	2	5	0.5	50	0.5	1	1	5	1	0.01	1	1	5	1	0.01	20	15	0.1	0.1	3	0.02	0.05	0.5	0.2
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
KAS2441	< 2	< 5	7.2	< 50	16.2	22	3	40	< 1	2.42	< 1	< 1	< 5	< 1	0.06	< 20	< 15	8.9	1.4	< 3	< 0.02	< 0.05	< 0.5	1.8
KAS2442	< 2	< 5	8.6	< 50	25.8	20	< 1	58	< 1	2.07	2	< 1	< 5	< 1	0.10	< 20	< 15	5.0	2.2	< 3	< 0.02	< 0.05	< 0.5	3.9
KAS4226	< 2	< 5	22.1	190	14.7	16	11	48	< 1	3.36	3	< 1	< 5	4	0.10	< 20	66	3.9	3.8	< 3	< 0.02	< 0.05	< 0.5	6.2

Analyte Symbol	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Detection Limit	0.5	1	50	0.5	3	5	0.1	0.2	0.5	0.2	0.05	
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
KAS4253	3.7	< 1	90	26.3	53	9	2.9	0.6	< 0.5	1.5	< 0.05	7.31
KAS4254	2.7	< 1	< 50	34.2	63	22	4.1	1.0	< 0.5	1.6	0.23	6.95
KAS4255	5.7	< 1	< 50	47.2	87	33	4.8	0.8	< 0.5	2.3	0.41	6.17
KAS4256	5.1	< 1	160	49.9	88	28	5.9	1.3	< 0.5	3.3	0.62	6.07
KAS4257	4.6	< 1	120	43.7	84	35	5.1	0.9	< 0.5	2.3	0.42	6.22
KAS4258	2.9	< 1	110	46.0	80	31	5.3	1.4	< 0.5	2.3	0.36	6.08
KAS4259	4.1	< 1	170	39.0	73	36	4.9	1.3	< 0.5	2.4	0.43	6.41
KAS4260	3.3	< 1	110	36.1	70	58	4.3	0.7	< 0.5	1.8	0.34	6.68
KAS4261	6.4	< 1	< 50	42.1	76	30	4.7	0.7	< 0.5	2.3	0.40	5.92
KAS4262	4.2	< 1	200	36.5	64	27	4.0	0.9	< 0.5	2.2	0.14	7.60
KAS4263	4.1	< 1	90	26.8	46	18	2.9	0.5	< 0.5	1.8	< 0.05	6.91
KAS4264	2.6	< 1	210	34.2	63	18	4.5	0.8	< 0.5	2.2	0.27	5.94
KAS4265	4.9	< 1	180	32.9	59	18	3.9	0.7	< 0.5	2.0	0.40	7.37
KAS4266	< 0.5	< 1	160	34.7	63	17	4.6	1.1	< 0.5	2.2	0.32	6.39
KAS4267	2.8	< 1	110	25.4	47	14	3.0	< 0.2	0.5	1.6	< 0.05	7.57
KAS4274	6.0	< 1	< 50	38.8	71	24	5.0	1.1	< 0.5	2.5	0.70	6.61
KAS4275	3.0	< 1	< 50	24.4	48	23	3.1	0.6	< 0.5	1.6	< 0.05	7.22
KAS4276	7.2	< 1	130	34.8	68	16	4.1	0.9	< 0.5	2.0	0.47	6.22
KAS4531	2.1	< 1	< 50	30.5	60	16	3.5	0.7	< 0.5	1.3	0.06	7.16
KAS4532	3.0	< 1	< 50	28.6	57	19	3.1	0.6	< 0.5	1.3	< 0.05	7.23
KAS4170	2.3	< 1	120	43.9	95	25	5.6	1.2	< 0.5	3.0	0.61	6.42
KAS4171	2.4	< 1	250	40.4	79	41	5.2	1.2	< 0.5	2.5	0.74	6.05
KAS4172	1.5	< 1	< 50	19.1	35	18	2.3	0.5	< 0.5	1.2	< 0.05	7.49
KAS4173	3.6	< 1	110	32.3	66	11	4.0	1.0	< 0.5	2.2	0.27	6.82
KAS4174	2.3	< 1	170	42.7	84	25	5.4	1.4	< 0.5	2.1	0.66	5.82
KAS4175	1.6	< 1	160	24.4	43	24	3.1	0.8	< 0.5	1.7	0.11	7.33
KAS4176	< 0.5	< 1	160	33.2	70	26	4.5	1.0	< 0.5	2.4	0.31	6.72
KAS4177	1.2	< 1	< 50	31.2	57	16	4.0	0.7	< 0.5	2.3	0.22	6.99
KAS4178	2.8	< 1	190	44.9	94	34	5.7	0.7	< 0.5	2.7	0.54	6.55
KAS4179	< 0.5	< 1	< 50	19.7	36	16	2.6	1.0	< 0.5	1.3	< 0.05	7.61
KAS4521	4.3	< 1	< 50	39.6	72	22	3.9	1.6	< 0.5	2.2	0.23	7.15
KAS4522	3.1	< 1	< 50	32.9	67	27	3.5	0.8	< 0.5	1.2	0.14	6.82
KAS4523	2.5	< 1	< 50	22.1	46	12	2.4	0.3	< 0.5	1.1	< 0.05	6.92
KAS4524	2.3	< 1	< 50	20.4	41	20	2.5	0.5	< 0.5	1.0	< 0.05	7.07
KAS4525	4.3	< 1	80	25.1	47	14	2.7	0.6	< 0.5	1.7	0.07	7.64
KAS4526	3.2	< 1	< 50	19.9	38	9	2.1	0.5	< 0.5	1.0	0.12	7.27
KAS4527	2.7	< 1	< 50	24.4	46	13	2.9	0.8	< 0.5	1.5	0.14	6.72
KAS4528	3.1	< 1	< 50	28.3	53	22	3.0	0.7	< 0.5	1.3	0.12	6.81
KAS4529	3.1	< 1	< 50	23.3	40	16	2.6	0.6	< 0.5	1.1	< 0.05	7.04
KAS4530	2.0	< 1	< 50	25.8	47	14	2.9	0.5	< 0.5	1.2	0.17	7.53
KAS3643	4.8	< 1	< 50	42.8	94	47	4.4	1.0	< 0.5	1.9	0.49	6.46
KAS3644	4.0	< 1	210	39.7	79	22	5.0	1.0	< 0.5	2.2	0.43	6.13
KAS3645	5.6	< 1	430	28.6	50	10	4.0	0.8	< 0.5	2.0	0.38	6.00
KAS3646	3.7	< 1	270	38.4	78	28	5.1	0.9	< 0.5	2.3	0.57	5.89
KAS3647	3.8	< 1	330	33.4	69	18	4.8	1.1	< 0.5	2.2	0.51	6.12
KAS3648	3.7	< 1	240	37.0	82	17	4.8	1.1	< 0.5	2.1	0.41	6.63
KAS3649	3.7	< 1	270	41.9	85	27	5.0	1.0	< 0.5	1.9	0.45	6.45
KAS4149	< 0.5	< 1	< 50	3.1	11	< 5	0.2	< 0.2	< 0.5	< 0.2	< 0.05	8.12
KAS4227	1.8	< 1	250	28.8	56	22	3.6	0.6	< 0.5	1.8	0.18	6.42
KAS4228	3.1	< 1	100	28.4	51	22	3.9	0.8	< 0.5	1.8	0.39	6.11
KAS4229	3.7	< 1	< 50	38.3	78	19	4.2	0.7	< 0.5	2.2	0.35	6.44
KAS4230	3.0	< 1	110	28.3	63	19	3.0	0.4	< 0.5	1.5	0.34	6.14

Analyte Symbol	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Detection Limit	0.5	1	50	0.5	3	5	0.1	0.2	0.5	0.2	0.05	
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
KAS4231	4.2	< 1	160	32.8	69	25	4.1	1.2	< 0.5	1.7	0.39	6.23
KAS4232	3.0	< 1	240	32.4	66	21	4.1	0.6	< 0.5	1.9	0.44	7.34
KAS4233	4.0	< 1	480	25.3	56	14	3.0	0.5	< 0.5	1.4	0.13	6.92
KAS4234	3.2	< 1	530	27.0	52	19	3.3	0.7	< 0.5	1.7	0.14	6.18
KAS4581	2.9	< 1	130	37.1	74	19	4.6	< 0.2	< 0.5	1.4	0.37	6.22
KAS4582	3.1	< 1	< 50	30.4	66	14	3.7	0.6	< 0.5	1.9	0.26	6.53
KAS4583	3.5	< 1	< 50	33.1	65	16	3.9	1.0	< 0.5	1.6	0.31	6.24
KAS4584	2.2	< 1	< 50	30.0	59	27	3.5	0.6	< 0.5	1.3	0.13	6.61
KAS4579	3.0	< 1	140	38.3	74	28	4.6	0.9	< 0.5	1.9	0.40	6.51
KAS4580	4.9	< 1	< 50	36.8	81	38	4.4	0.9	< 0.5	2.0	0.62	6.30
KAS4586	4.7	< 1	< 50	29.8	60	33	3.5	0.7	< 0.5	1.9	0.27	6.01
KAS4587	3.6	< 1	< 50	36.8	73	26	4.2	0.8	< 0.5	1.9	0.44	6.48
KAS4588	2.2	< 1	< 50	33.0	50	22	3.3	0.8	< 0.5	1.5	< 0.05	6.67
KAS4712	3.0	< 1	140	33.7	55	26	3.5	1.0	< 0.5	1.5	0.08	6.40
KAS4713	4.4	< 1	120	34.2	49	22	3.5	0.8	< 0.5	2.1	< 0.05	6.33
KAS4714	2.7	< 1	120	31.2	51	19	3.3	0.6	< 0.5	1.4	< 0.05	6.57
KAS4715	2.5	< 1	80	29.3	43	21	3.1	0.4	< 0.5	1.2	< 0.05	6.31
KAS4716	2.9	< 1	< 50	33.5	54	31	3.7	0.6	< 0.5	1.5	0.07	5.98
KAS4717	5.0	< 1	220	39.0	64	26	4.4	0.8	< 0.5	2.4	0.11	6.15
KAS4718	2.8	< 1	120	25.9	43	11	3.0	0.7	< 0.5	1.4	0.05	7.05
KAS4719	2.9	< 1	2550	20.8	37	20	2.5	0.5	< 0.5	1.2	< 0.05	7.03
KAS4720	5.2	< 1	200	30.0	46	6	2.9	0.4	< 0.5	1.3	0.05	6.60
KAS4721	2.6	< 1	170	37.8	56	35	3.7	0.9	< 0.5	1.5	0.06	6.53
KAS4722	2.8	< 1	< 50	37.9	48	24	3.8	0.8	< 0.5	1.5	0.06	6.50
KAS4723	3.7	< 1	< 50	32.2	53	18	3.3	0.4	< 0.5	1.6	0.06	6.60
KAS4724	3.4	< 1	< 50	39.7	62	28	3.9	0.7	< 0.5	1.8	0.11	6.10
KAS4938	3.0	< 1	350	38.9	63	23	4.3	0.8	< 0.5	1.6	0.12	6.59
KAS4939	3.1	< 1	310	42.4	69	24	4.8	0.8	< 0.5	1.9	0.14	6.04
KAS1865	1.6	< 1	100	36.0	62	34	4.5	0.9	< 0.5	2.3	0.09	6.42
KAS2263	2.7	< 1	< 50	35.3	55	37	4.4	1.0	< 0.5	2.0	0.14	6.28
KAS2269	2.8	< 1	150	35.9	65	25	4.2	0.8	< 0.5	2.2	0.12	6.26
KAS2270	< 0.5	< 1	70	20.2	31	20	2.6	0.4	< 0.5	1.4	< 0.05	7.47
KAS2271	3.3	< 1	< 50	25.0	41	18	2.9	0.6	< 0.5	1.2	< 0.05	6.81
KAS4119	6.0	< 1	120	41.8	66	26	5.3	1.4	< 0.5	2.5	0.18	6.15
KAS4120	4.1	< 1	< 50	38.4	63	30	4.2	0.8	< 0.5	1.2	0.14	6.12
KAS4121	7.1	< 1	< 50	35.6	60	17	3.8	0.6	< 0.5	2.2	0.13	6.02
KAS4122	3.0	< 1	130	38.9	64	38	4.8	0.8	< 0.5	1.9	0.12	6.08
KAS4123	2.8	< 1	< 50	32.5	51	12	3.8	0.5	< 0.5	1.8	0.06	6.23
KAS4124	3.0	< 1	< 50	29.2	46	17	3.5	0.7	< 0.5	1.2	< 0.05	6.47
KAS4125	2.0	< 1	280	30.6	54	18	3.7	0.5	< 0.5	1.6	0.05	6.44
KAS4126	5.3	< 1	370	34.3	53	19	3.8	0.7	< 0.5	1.9	0.06	6.51
KAS4127	3.1	< 1	380	37.0	56	50	4.2	0.6	< 0.5	1.7	0.06	5.51
KAS4128	3.1	< 1	180	24.6	38	26	3.0	0.4	< 0.5	1.3	0.05	6.37
KAS4129	3.7	< 1	110	24.5	39	15	3.0	0.6	< 0.5	1.7	< 0.05	6.36
KAS4130	2.2	< 1	160	29.0	46	12	3.5	0.9	< 0.5	2.1	0.07	6.99
KAS4131	3.1	< 1	60	24.5	33	18	2.9	0.6	< 0.5	1.9	< 0.05	7.10
KAS4132	3.7	< 1	130	24.1	35	21	2.9	0.5	< 0.5	1.9	< 0.05	6.89
KAS4585	5.4	< 1	< 50	39.1	62	< 5	4.4	1.1	< 0.5	2.6	0.09	6.18
KAS1929	1.6	< 1	580	25.8	43	33	3.6	0.8	< 0.5	2.0	0.11	5.99
KAS1930	< 0.5	< 1	260	17.4	33	16	2.6	0.6	< 0.5	1.1	< 0.05	7.28
KAS2439	1.3	< 1	< 50	13.7	18	< 5	1.9	0.6	< 0.5	1.0	< 0.05	7.23
KAS2440	1.5	< 1	< 50	8.5	11	15	1.2	0.4	< 0.5	0.8	< 0.05	7.08

Analyte Symbol	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Detection Limit	0.5	1	50	0.5	3	5	0.1	0.2	0.5	0.2	0.05	
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
KAS2441	1.7	< 1	< 50	8.6	16	< 5	1.2	0.4	< 0.5	0.6	< 0.05	7.76
KAS2442	< 0.5	< 1	80	11.4	16	27	1.6	0.2	< 0.5	1.0	< 0.05	7.68
KAS4226	3.7	< 1	640	16.0	32	< 5	2.0	0.5	< 0.5	0.7	< 0.05	6.71

**Quality Control**

Analyte Symbol	Au	As	Ba	Co	Cr	Fe	Na	Sb	Sc	U	La	Ce	Sm
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	0.5	50	1	5	0.01	0.01	0.1	0.1	0.5	0.5	3	0.1
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
DMMAS 115 Meas	1610	534	1250	22	94	2.66	1.86	4.4	7.5	104	21.8	40	3.0
DMMAS 115 Cert	1720	527	1210	21.0	100	2.64	1.92	5.50	7.30	101	21.9	40.0	3.10