



ALS Canada Ltd.  
2103 Dollarton Hwy  
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To: **NORTHERN TIGER RESOURCES**  
**220 - 17010 103RD AVE.**  
**EDMONTON AB T5S 1K7**

Page: 1  
Finalized Date: 3-SEP-2011  
Account: NOTIRE

**CERTIFICATE WH11144877**

Project: Sonora

P.O. No.: Batch 8

This report is for 158 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-JUL-2011.

The following have access to data associated with this certificate:

G. HAYES

DENNIS OUELLETTE

BONNIE POLLRIES

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
SPL-22Y	Split Sample - Boyd Rotary Splitter
SPL-21d	Split sample - duplicate
LOG-22d	Sample login - Rcd w/o BarCode dup
PUL-31d	Pulverize Split - duplicate
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
PUL-31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

  
Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH11144877**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K520346		3.01	0.028	0.69	7.63	241	2630	1.32	4.92	0.05	0.37	53.3	1.3	13	4.97	13.0
K520347		3.46	0.022	0.70	7.02	245	600	1.48	4.31	0.19	3.63	50.0	6.9	14	4.63	21.5
K520348		3.44	0.006	0.30	7.43	26.3	770	1.82	2.63	1.39	7.10	37.2	8.7	14	3.96	12.3
K520349		4.47	0.040	0.45	7.23	137.5	640	1.75	3.81	1.35	4.93	70.9	12.0	17	4.26	16.6
K520350		3.68	0.010	0.48	7.72	42.0	990	2.03	3.66	1.57	6.95	105.5	8.8	15	4.07	47.5
K520351		4.34	0.006	0.27	7.39	23.4	620	1.78	3.22	1.35	2.50	54.7	10.4	15	4.75	15.6
K520352		4.25	0.011	0.22	7.53	20.5	930	1.71	2.19	1.57	2.24	54.8	8.9	14	4.24	16.2
K520353		4.39	0.123	1.30	7.27	524	850	1.82	3.55	1.56	7.40	54.5	10.7	15	5.01	34.8
K520354		4.12	0.010	0.76	6.79	53.4	750	1.79	2.86	2.06	2.87	44.5	8.3	16	4.97	32.9
K520355		3.74	0.048	0.65	6.99	422	550	1.85	3.20	1.88	1.51	68.1	9.6	20	6.71	15.2
K520356		3.86	0.006	0.21	6.97	21.7	520	1.41	2.46	1.91	1.16	36.3	7.9	16	4.12	21.8
K520357		4.21	0.006	0.24	7.01	20.2	420	1.43	3.21	2.05	1.33	48.2	7.7	16	3.82	28.2
K520358		4.61	0.008	0.59	6.86	21.2	400	1.32	3.79	2.11	1.47	36.0	7.3	14	3.55	46.5
K520359		3.81	0.033	0.20	6.74	21.8	370	1.31	3.50	1.81	0.39	40.2	7.1	14	3.60	12.0
K520360		3.71	0.014	0.21	6.63	17.0	470	1.56	2.43	2.28	0.58	21.8	6.2	15	3.74	5.9
K520361		4.73	0.020	0.43	6.73	216	360	1.59	2.08	2.00	0.76	19.65	6.8	13	5.40	15.7
K520362		3.90	0.007	0.27	6.89	23.9	310	1.73	2.27	2.08	0.42	27.2	8.9	14	5.58	8.4
K520363		4.10	0.059	0.32	7.01	37.6	290	1.85	3.51	1.95	0.37	57.1	11.4	13	5.93	6.0
K520364		4.36	0.009	0.16	6.92	17.7	270	1.84	2.75	2.21	0.50	29.5	7.7	15	3.80	7.0
K520365		4.65	0.011	0.20	7.00	19.4	260	1.64	2.94	2.02	0.82	25.6	7.5	13	4.47	8.5
K520366		4.08	0.007	0.38	7.17	32.1	390	1.74	4.78	2.11	1.25	43.6	7.1	13	5.33	26.7
K520367		3.95	0.030	0.84	7.28	60.4	420	1.83	5.70	1.41	1.00	32.9	7.6	14	7.45	6.5
K520368		3.75	0.028	0.56	7.56	157.0	1540	1.86	2.40	1.41	0.51	47.5	7.7	14	11.40	8.3
K520369		4.29	0.007	0.17	7.20	23.3	600	1.57	1.70	2.13	0.41	37.6	7.0	16	6.77	6.2
K520370		3.98	0.009	0.23	7.47	20.6	930	1.52	2.17	2.08	0.51	42.8	7.5	17	7.79	11.2
K520371		3.37	0.059	0.54	7.44	521	750	1.75	1.29	2.11	1.03	34.6	7.1	16	7.55	7.9
K520372		4.32	0.011	0.17	7.25	24.5	990	1.66	1.43	2.02	0.34	37.5	6.7	14	5.34	9.0
K520373		4.10	0.009	0.17	7.76	24.7	570	1.80	1.29	2.03	0.39	47.0	7.5	14	4.87	6.5
K520374		3.99	0.012	0.21	7.35	24.5	560	1.62	1.25	2.13	0.26	40.3	7.0	15	4.40	10.4
K520375		3.56	0.009	0.14	7.35	44.2	620	1.62	1.42	1.96	0.19	38.2	7.6	17	3.89	9.7
K520376		4.33	0.011	0.14	6.52	52.1	430	1.65	1.27	1.92	0.40	36.4	7.1	16	4.02	8.8
K520377		3.52	0.013	0.19	7.32	280	470	1.57	1.49	2.10	0.55	31.2	8.1	16	3.63	20.1
K520378		4.63	0.224	24.9	7.34	3530	520	1.52	2.83	1.87	1.08	41.7	7.2	13	5.86	83.2
K520379		4.25	0.077	0.52	7.31	1145	680	1.66	1.30	2.07	1.41	26.6	6.8	14	5.96	10.3
K520380		2.03	0.009	0.29	7.38	71.6	780	1.60	1.12	2.25	0.29	30.8	7.5	17	4.25	17.5
K520381		2.03	0.014	0.21	7.19	156.0	630	1.58	1.42	2.59	0.27	34.2	8.1	13	4.18	18.6
K520382		<0.02	0.011	0.18	7.29	144.5	750	1.55	1.32	2.49	0.28	32.7	7.4	13	4.22	14.7
K520383		1.42	0.001	0.02	0.08	<5	20	0.05	0.03	20.8	0.06	1.47	1.3	<1	0.13	2.2
K520384		4.37	0.014	0.44	7.20	137.5	820	1.77	1.28	2.38	0.97	25.0	6.9	14	4.39	12.8
K520385		3.62	0.018	0.64	6.85	68.2	880	1.71	1.20	2.04	0.44	26.0	5.5	12	5.02	11.0



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**CERTIFICATE OF ANALYSIS WH11144877**

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K520346		1.94	17.40	0.18	1.4	0.076	5.11	27.3	11.6	0.35	28	1.55	0.34	5.3	0.9	470
K520347		3.10	17.40	0.18	1.4	0.080	4.21	24.4	8.4	0.37	81	9.25	0.87	4.8	4.1	620
K520348		2.72	17.40	0.19	1.3	0.104	4.09	19.0	7.6	0.64	178	1.79	1.11	5.4	5.4	610
K520349		2.93	17.30	0.23	1.3	0.065	4.28	36.5	10.0	0.75	210	1.50	0.66	5.1	6.4	600
K520350		2.53	18.30	0.24	1.3	0.130	4.11	53.9	18.8	0.99	255	2.09	0.09	5.8	5.2	640
K520351		2.90	16.50	0.20	1.3	0.051	4.04	27.5	17.8	0.83	272	2.60	0.25	5.4	5.3	610
K520352		2.35	16.75	0.21	1.3	0.034	3.92	27.9	8.7	0.80	139	2.39	1.34	5.9	5.4	600
K520353		2.39	16.25	0.20	1.3	0.070	3.97	27.7	10.3	0.78	168	1.44	0.78	5.4	5.9	600
K520354		2.32	17.40	0.20	1.3	0.106	3.71	22.1	10.3	0.88	185	1.35	0.82	5.6	5.4	580
K520355		2.56	17.70	0.18	1.3	0.058	4.01	33.5	14.6	0.81	274	2.28	0.17	5.7	5.3	590
K520356		2.65	19.00	0.12	1.3	0.062	3.77	18.6	9.5	0.77	143	1.28	0.95	6.3	4.9	580
K520357		2.77	18.90	0.13	1.4	0.070	3.62	25.2	8.2	0.73	133	1.53	1.11	6.1	6.2	580
K520358		3.02	18.50	0.14	1.4	0.068	3.74	17.8	7.9	0.77	138	1.15	0.96	5.7	5.1	580
K520359		2.90	18.40	0.13	1.3	0.017	4.09	20.1	7.0	0.73	120	3.51	1.21	5.6	5.2	570
K520360		2.50	14.80	0.16	1.2	0.013	3.92	9.9	6.9	0.60	143	3.12	1.28	5.3	4.4	570
K520361		2.91	15.45	0.17	1.2	0.022	3.80	8.0	9.2	0.62	155	1.31	0.79	4.9	4.7	580
K520362		3.16	15.55	0.19	1.3	0.019	4.10	11.6	11.7	0.69	113	1.86	0.70	5.1	4.7	580
K520363		3.72	16.60	0.21	1.3	0.017	3.93	28.2	11.5	0.62	99	2.53	0.55	4.6	5.3	580
K520364		3.36	15.35	0.19	1.3	0.025	3.52	13.9	8.9	0.68	87	1.37	1.24	5.3	5.3	580
K520365		3.27	14.90	0.17	1.2	0.038	3.81	12.0	13.7	0.70	100	1.08	0.86	5.1	4.5	580
K520366		3.56	16.10	0.19	1.3	0.049	3.32	22.0	15.1	0.75	113	1.24	0.51	4.8	4.4	570
K520367		4.54	16.90	0.18	1.2	0.035	3.42	16.9	15.2	0.76	127	1.17	0.23	4.5	4.6	570
K520368		3.26	18.05	0.18	1.3	0.009	3.75	26.0	17.7	0.90	253	0.92	0.09	4.7	5.3	590
K520369		3.05	17.30	0.17	1.3	0.011	3.52	23.4	11.1	0.78	118	1.26	1.65	4.3	5.2	590
K520370		2.81	17.50	0.18	1.3	0.014	3.81	27.3	17.6	0.70	112	1.27	1.53	4.5	5.0	620
K520371		2.92	17.80	0.17	1.3	0.010	3.59	21.5	17.2	0.73	139	1.18	1.78	4.2	5.6	610
K520372		2.59	17.70	0.15	1.3	0.010	3.09	23.5	23.7	0.82	115	0.76	2.17	3.9	5.3	600
K520373		3.05	18.20	0.18	1.4	0.009	3.17	25.3	26.0	0.78	107	0.84	2.50	4.3	5.8	620
K520374		2.74	16.85	0.17	1.3	0.011	3.57	24.4	14.5	0.68	99	1.14	1.90	4.0	5.3	600
K520375		3.00	16.55	0.17	1.3	0.008	2.87	24.0	13.1	0.82	95	1.19	2.34	4.8	5.8	600
K520376		2.71	15.80	0.16	1.3	0.015	3.08	22.3	19.2	0.77	102	1.08	1.75	4.4	5.2	590
K520377		3.30	14.95	0.16	1.3	0.016	3.53	17.2	10.1	0.75	117	1.17	1.33	4.8	5.2	590
K520378		3.23	15.30	0.19	1.3	0.014	4.20	23.0	11.8	0.73	160	1.42	0.63	4.5	4.7	590
K520379		2.75	16.30	0.16	1.3	0.010	4.13	14.6	9.0	0.75	161	1.55	0.96	4.7	5.3	610
K520380		2.70	16.55	0.16	1.3	0.007	3.82	16.7	7.4	0.82	120	2.05	1.38	4.6	5.3	590
K520381		2.84	16.55	0.18	1.3	0.008	3.88	18.2	7.2	0.78	126	1.63	1.42	4.6	5.6	590
K520382		2.72	16.45	0.16	1.3	0.007	3.93	17.5	7.2	0.78	128	1.48	1.45	4.7	5.2	600
K520383		0.44	0.26	0.05	<0.1	<0.005	0.03	0.7	1.2	13.05	200	0.07	<0.01	0.3	1.1	170
K520384		2.54	17.25	0.15	1.2	0.010	3.75	13.9	17.0	0.84	139	1.83	0.74	3.5	5.3	590
K520385		2.28	15.85	0.14	1.1	0.008	3.28	14.1	16.3	0.85	135	1.73	0.47	3.3	4.4	530



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Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
K520346		18.2	118.0	<0.002	0.49	17.30	6.2	3	5.8	224	0.41	0.56	8.8	0.165	1.74	2.0
K520347		34.2	123.0	<0.002	2.38	13.95	6.2	3	5.4	220	0.37	0.50	7.9	0.156	1.46	2.9
K520348		11.4	147.0	<0.002	2.63	4.01	5.7	2	4.3	263	0.41	0.42	7.9	0.169	1.16	4.7
K520349		11.9	148.0	<0.002	2.90	4.62	6.0	4	5.4	230	0.40	1.00	8.2	0.157	1.19	4.6
K520350		9.2	138.0	<0.002	2.52	17.65	6.6	3	6.7	169.5	0.44	0.93	8.3	0.182	1.08	2.7
K520351		7.3	142.5	<0.002	2.82	6.44	6.2	3	5.9	186.5	0.41	0.74	8.6	0.172	1.08	3.4
K520352		12.6	142.5	<0.002	2.41	4.16	6.5	3	7.1	326	0.44	0.49	8.4	0.181	1.14	3.9
K520353		29.8	145.0	<0.002	2.44	21.0	6.2	3	8.2	250	0.42	1.08	8.0	0.170	1.24	4.0
K520354		14.2	130.5	<0.002	2.41	14.25	6.1	3	6.3	252	0.43	0.67	6.9	0.166	1.23	3.5
K520355		14.5	139.5	<0.002	2.66	7.29	6.3	4	6.0	174.0	0.43	0.91	7.3	0.172	1.34	2.9
K520356		10.8	132.0	<0.002	2.83	5.07	6.1	3	6.0	273	0.42	0.60	7.4	0.178	0.95	3.4
K520357		10.9	126.0	<0.002	2.98	4.60	6.5	4	6.3	296	0.44	1.08	8.0	0.176	0.91	3.7
K520358		13.3	123.5	<0.002	3.31	4.33	6.1	3	6.5	288	0.41	1.66	7.0	0.165	0.88	3.3
K520359		9.7	122.0	<0.002	3.12	3.30	6.3	3	4.9	344	0.38	1.48	7.3	0.156	0.95	2.7
K520360		8.2	112.5	<0.002	2.74	2.66	5.3	3	5.9	343	0.39	0.85	6.8	0.162	1.07	3.6
K520361		21.8	117.5	<0.002	3.23	10.75	5.5	4	5.0	240	0.36	0.48	6.5	0.156	1.16	3.8
K520362		15.0	121.0	<0.002	3.42	3.38	5.9	4	4.8	257	0.40	0.64	6.9	0.159	1.20	3.5
K520363		12.4	128.5	<0.002	4.07	2.86	6.1	4	4.9	216	0.37	1.02	7.1	0.143	1.16	3.0
K520364		9.9	118.0	<0.002	3.67	1.38	5.9	4	5.7	321	0.41	0.96	7.0	0.165	1.00	3.3
K520365		8.7	123.5	<0.002	3.60	2.35	5.5	4	6.2	256	0.39	0.95	6.9	0.157	1.11	3.1
K520366		10.5	130.0	<0.002	3.90	7.74	5.8	4	6.7	184.0	0.36	1.65	7.8	0.146	1.09	2.4
K520367		17.6	148.5	<0.002	4.98	4.53	5.9	4	4.7	129.0	0.34	0.69	8.2	0.141	1.33	2.7
K520368		23.7	195.0	<0.002	3.59	6.10	6.4	4	4.1	110.0	0.37	0.78	8.9	0.158	1.58	3.0
K520369		14.7	127.0	<0.002	3.36	2.37	5.8	4	2.9	414	0.34	0.46	7.0	0.138	1.13	3.2
K520370		20.7	130.5	<0.002	3.01	3.11	6.1	3	3.1	438	0.37	0.56	7.8	0.156	1.10	2.9
K520371		35.8	129.0	<0.002	3.15	8.26	5.9	3	2.9	424	0.33	0.22	7.4	0.144	1.15	2.9
K520372		15.8	112.0	<0.002	2.79	1.57	6.0	3	2.9	477	0.31	0.34	7.2	0.134	0.91	3.3
K520373		18.0	103.0	<0.002	3.29	1.33	6.4	3	2.5	548	0.35	0.24	7.7	0.145	0.80	3.8
K520374		14.9	114.5	<0.002	2.98	1.81	6.0	3	3.2	435	0.32	0.25	7.4	0.134	0.85	4.6
K520375		10.1	110.0	<0.002	3.23	1.23	7.0	3	4.6	454	0.36	0.30	7.2	0.169	0.75	3.3
K520376		11.4	104.0	<0.002	3.04	3.26	5.5	3	3.3	362	0.34	0.22	7.0	0.151	0.78	2.8
K520377		12.9	112.5	<0.002	3.64	9.04	5.5	5	4.8	312	0.36	0.42	7.1	0.161	0.86	2.9
K520378		1025	138.5	<0.002	3.41	140.0	6.1	6	4.8	258	0.34	0.39	7.8	0.155	1.08	4.8
K520379		31.8	142.0	<0.002	2.99	10.15	6.0	4	5.7	282	0.36	0.19	7.2	0.164	1.23	3.8
K520380		13.6	131.5	<0.002	2.93	9.41	6.1	4	4.9	337	0.35	0.19	7.5	0.154	1.04	2.7
K520381		12.2	126.5	<0.002	3.15	6.25	6.0	4	4.6	361	0.36	0.20	6.9	0.155	1.03	2.5
K520382		11.7	127.5	<0.002	2.95	5.37	5.9	4	4.6	362	0.35	0.20	7.0	0.157	1.08	2.4
K520383		1.8	1.5	<0.002	0.02	0.11	0.2	1	<0.2	45.5	<0.05	<0.05	<0.2	<0.005	<0.02	0.5
K520384		21.8	121.0	<0.002	2.77	6.92	6.1	4	3.8	243	0.29	0.20	7.2	0.127	1.00	2.9
K520385		51.3	126.5	<0.002	2.44	6.73	5.7	3	3.7	178.0	0.27	0.24	7.9	0.123	0.89	3.5



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
K520346		53	10.6	5.1	56	38.4
K520347		54	9.3	8.1	219	36.1
K520348		50	9.1	10.7	374	35.3
K520349		49	11.0	13.3	280	35.9
K520350		52	17.1	15.5	278	35.7
K520351		50	13.2	13.7	259	34.7
K520352		52	10.4	10.4	100	35.4
K520353		50	11.2	12.1	208	35.0
K520354		50	10.2	9.4	203	36.5
K520355		49	10.5	12.8	146	35.3
K520356		49	9.5	10.9	96	39.4
K520357		48	9.0	11.4	109	38.5
K520358		49	10.1	9.5	108	38.8
K520359		48	10.4	9.6	38	37.5
K520360		46	11.1	7.5	44	34.8
K520361		49	6.9	7.5	63	33.4
K520362		50	7.8	8.9	39	35.3
K520363		50	9.8	7.3	33	34.2
K520364		48	8.7	7.1	42	34.5
K520365		45	9.5	7.0	62	33.3
K520366		46	12.1	6.0	84	34.3
K520367		47	10.9	7.9	78	33.4
K520368		51	9.0	10.7	38	35.0
K520369		49	5.2	8.4	39	36.8
K520370		53	4.6	9.8	50	38.4
K520371		52	3.7	8.3	88	38.5
K520372		51	4.0	8.5	36	37.3
K520373		53	3.9	10.3	42	40.2
K520374		50	4.3	8.5	30	39.3
K520375		58	6.0	9.5	24	38.0
K520376		51	4.7	8.6	37	38.0
K520377		49	5.3	8.7	42	36.7
K520378		52	6.2	8.1	54	37.2
K520379		50	5.0	8.2	93	38.6
K520380		50	6.0	8.6	29	38.1
K520381		50	5.6	8.9	30	37.8
K520382		49	6.0	8.7	29	38.5
K520383		2	0.1	0.9	14	0.5
K520384		52	4.9	7.2	64	34.0
K520385		45	4.2	7.7	32	31.8



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K520386		4.04	0.016	0.31	7.38	75.9	750	1.78	1.14	2.14	0.47	27.3	7.5	14	3.81	6.7
K520387		4.46	0.015	0.21	7.13	443	510	1.73	1.46	2.09	0.21	45.7	7.8	12	3.40	5.1
K520388		3.75	0.008	0.17	7.02	19.5	370	1.75	1.11	2.03	0.30	28.5	6.9	12	3.20	4.2
K520389		4.52	0.039	0.30	7.14	498	520	1.70	1.40	1.88	0.48	27.4	7.4	12	3.68	8.7
K520390		4.06	0.007	0.26	7.13	24.9	650	1.72	1.56	2.34	0.35	39.7	7.3	13	3.61	12.9
K520391		3.77	0.011	0.53	7.32	47.5	400	1.70	2.85	2.01	0.47	29.8	9.5	12	4.06	16.5
K520392		3.92	0.009	0.21	7.09	70.8	1280	1.72	3.77	2.07	0.24	41.5	6.3	13	3.43	21.1
K520393		5.33	0.014	0.27	7.41	32.7	1060	1.75	1.53	1.99	0.30	37.1	6.6	15	3.71	10.2
K520394		4.58	0.006	0.39	7.25	18.0	1070	1.75	1.21	2.03	0.27	29.3	6.0	14	4.07	16.4
K520395		3.05	0.028	0.79	7.81	276	580	1.74	3.53	1.28	0.65	39.4	10.7	13	5.39	20.6
K520396		3.91	0.041	0.19	7.16	39.7	830	1.54	1.72	1.94	0.29	39.1	6.9	15	2.91	6.4
K520397		3.97	0.019	0.50	7.18	37.4	630	1.53	1.49	1.83	8.70	95.9	8.8	12	3.95	8.9
K520398		4.08	0.049	0.79	7.20	611	630	1.72	1.89	1.91	0.65	44.4	8.2	15	4.14	9.4
K520399		3.48	0.125	0.41	6.87	1390	1140	1.60	1.44	1.97	0.53	37.9	6.9	16	4.14	15.7
K520400		4.13	0.118	0.34	7.12	957	570	1.77	2.28	2.17	0.33	30.1	8.9	13	4.40	8.5
K520401		3.49	0.022	2.24	7.00	172.5	440	1.49	5.76	1.91	3.12	33.3	8.0	16	4.55	253
K520402		3.80	0.034	1.59	7.38	186.0	490	1.79	2.20	1.68	1.32	37.8	6.9	15	4.92	14.6
K520403		3.79	0.166	2.52	7.29	1570	500	1.67	2.21	2.20	3.83	38.5	9.4	12	5.92	19.1
K520404		3.99	0.035	1.56	7.65	275	750	1.45	1.39	1.90	1.24	48.1	7.0	12	8.10	9.8
K520405		3.50	0.099	2.24	7.51	946	550	1.79	1.61	1.63	4.32	39.1	9.0	12	8.41	13.4
K520406		3.81	0.026	0.68	7.58	30.0	420	1.58	2.57	1.85	1.60	35.7	11.4	13	4.73	7.3
K520407		3.33	0.023	0.51	7.38	32.8	400	1.63	2.87	1.94	0.37	43.7	9.2	13	4.97	31.0
K520408		3.66	0.027	0.37	7.25	198.5	560	1.87	1.12	2.06	0.32	65.6	9.1	13	7.10	12.5
K520409		3.43	0.021	0.17	7.70	27.6	560	1.56	1.30	1.93	0.14	58.1	11.1	15	4.77	4.4
K520410		4.10	0.060	0.37	7.25	38.2	320	1.49	3.63	2.27	0.21	58.2	18.3	19	8.01	7.2
K520411		3.68	0.052	2.58	6.94	364	940	1.68	1.00	2.15	0.87	53.2	9.1	11	7.40	6.7
K520412		4.12	0.012	0.16	7.45	16.1	480	1.50	0.99	2.13	0.20	41.6	9.5	13	4.69	3.7
K520413		4.39	0.099	1.16	7.40	716	490	1.44	1.14	1.86	0.31	55.1	21.2	14	7.81	7.6
K520414		1.91	0.022	0.18	7.54	22.8	1250	1.79	1.17	1.96	0.15	84.0	6.2	15	7.02	12.3
K520415		2.03	0.026	0.21	7.42	24.3	1060	1.73	1.15	1.90	0.13	86.1	6.9	14	6.68	8.3
K520416		<0.02	0.021	0.16	7.47	26.2	1080	1.86	1.20	1.92	0.11	87.7	6.9	14	6.98	7.4
K520417		1.86	<0.001	<0.01	0.10	<5	20	0.06	0.03	22.1	0.05	1.89	1.4	1	0.17	4.6
K520418		3.59	0.029	0.17	7.58	17.8	980	1.68	1.39	1.80	0.26	77.3	7.3	16	5.33	9.2
K520419		4.12	0.009	0.29	7.44	17.0	550	1.75	1.24	2.01	2.11	62.4	13.0	14	8.62	8.6
K520420		4.04	0.269	0.26	7.30	2670	700	1.85	1.11	2.22	0.26	125.0	7.6	15	9.30	5.2
K520421		3.95	0.015	0.26	7.60	18.8	370	1.77	1.48	1.95	1.09	91.0	15.0	15	7.41	7.2
K520422		3.88	0.024	0.25	7.79	62.7	640	1.81	1.46	2.10	0.27	76.2	8.0	14	12.30	5.1
K520423		4.09	0.081	0.32	7.91	19.6	630	1.73	2.25	1.88	0.33	71.1	7.5	20	6.76	8.2
K520424		4.21	0.016	0.22	7.72	16.1	380	1.83	1.77	2.02	0.21	96.8	10.8	15	5.52	7.6
K520425		3.63	0.024	0.18	7.75	16.3	820	1.81	1.45	2.00	0.13	106.0	7.8	21	7.07	8.2



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Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K520386		2.58	18.15	0.16	1.3	0.007	3.82	16.5	10.0	0.67	112	1.47	1.35	3.6	5.2	590
K520387		2.81	16.30	0.17	1.2	0.010	3.18	24.9	9.7	0.87	114	2.16	1.75	3.3	5.1	570
K520388		3.03	15.70	0.16	1.2	0.009	2.99	16.6	9.3	0.81	105	1.70	2.05	4.5	5.2	560
K520389		2.71	16.25	0.15	1.2	0.014	3.34	16.6	10.3	0.82	105	3.33	1.75	3.4	5.0	580
K520390		2.63	16.55	0.15	1.3	0.008	3.18	22.8	14.5	0.72	143	0.70	1.65	3.7	5.0	590
K520391		3.39	16.10	0.17	1.3	0.013	3.46	17.0	11.0	0.64	118	2.21	1.49	4.8	5.5	580
K520392		1.99	15.55	0.15	1.2	0.006	3.21	25.5	9.9	0.68	109	0.95	1.98	5.2	5.1	600
K520393		2.33	16.25	0.16	1.3	0.006	3.73	22.8	8.7	0.81	119	2.13	1.76	4.8	5.1	600
K520394		2.22	15.05	0.14	1.2	0.007	3.77	17.4	15.7	0.80	134	1.13	0.87	5.0	4.5	590
K520395		3.88	17.05	0.20	1.4	0.015	4.27	24.5	15.9	0.72	123	3.58	0.26	5.2	4.4	640
K520396		2.52	15.70	0.16	1.2	0.011	3.83	25.7	7.6	0.84	120	1.07	1.52	5.3	4.8	580
K520397		2.73	16.25	0.23	1.2	0.032	3.75	54.4	8.8	0.81	138	1.33	1.36	4.7	4.9	580
K520398		2.78	16.80	0.18	1.2	0.012	4.22	25.3	7.9	0.86	166	1.00	1.06	4.0	4.8	590
K520399		2.35	15.10	0.16	1.2	0.012	4.01	24.6	9.3	0.80	138	0.73	1.15	4.8	4.4	550
K520400		2.62	16.15	0.16	1.3	0.005	3.77	18.4	10.1	0.85	137	1.18	1.30	4.5	5.4	590
K520401		3.32	15.25	0.18	1.2	0.118	4.81	20.2	11.4	0.87	129	2.62	0.48	3.7	4.9	580
K520402		3.18	16.45	0.18	1.3	0.011	4.31	23.2	14.2	0.90	161	1.01	0.24	3.0	4.7	600
K520403		3.36	16.10	0.18	1.2	0.020	3.72	24.1	13.4	0.89	173	1.13	0.36	2.8	5.1	570
K520404		2.77	17.90	0.17	1.3	0.031	4.39	20.9	13.8	0.91	141	0.75	0.74	2.9	6.2	590
K520405		3.27	15.25	0.14	1.3	0.053	3.62	18.1	19.9	0.80	154	1.10	0.76	2.8	5.3	590
K520406		3.40	15.50	0.14	1.3	0.020	3.94	15.9	13.4	0.83	122	3.75	1.46	3.0	5.8	590
K520407		2.73	14.90	0.16	1.2	0.030	4.04	18.7	11.1	0.83	111	29.4	1.51	2.8	5.4	590
K520408		2.88	14.90	0.16	1.2	0.014	3.22	28.8	20.0	0.85	122	1.44	1.02	2.8	5.2	580
K520409		2.90	16.20	0.18	1.2	0.005	2.99	27.0	13.7	0.83	87	11.75	2.18	2.8	5.8	590
K520410		3.92	15.70	0.14	1.2	0.007	3.11	27.3	16.0	0.81	108	2.66	1.66	2.7	6.9	580
K520411		2.42	14.70	0.17	1.1	<0.005	3.07	24.4	17.2	0.84	102	0.99	1.11	3.0	5.5	560
K520412		2.82	14.75	0.11	1.3	0.012	2.70	17.1	17.6	0.77	78	1.87	2.21	2.8	5.8	600
K520413		4.21	14.70	0.16	1.1	0.010	3.17	25.3	17.7	0.73	103	8.71	1.56	2.6	6.0	560
K520414		2.07	15.55	0.18	1.2	0.009	3.09	43.0	12.0	0.97	98	0.55	1.92	3.3	5.5	590
K520415		2.35	14.70	0.19	1.2	<0.005	2.80	45.8	11.6	0.96	94	0.68	1.92	3.0	5.8	570
K520416		2.33	15.85	0.14	1.2	0.006	2.88	46.8	12.0	0.97	98	0.69	1.98	3.1	5.8	580
K520417		0.48	0.42	0.07	<0.1	0.005	0.04	0.9	1.2	13.85	215	0.10	0.01	0.4	4.0	190
K520418		2.00	15.25	0.18	1.2	<0.005	3.84	40.0	13.6	0.96	79	1.35	1.94	3.0	4.8	590
K520419		3.01	15.20	0.14	1.2	0.012	3.24	28.8	9.3	1.00	94	1.48	1.81	3.0	5.7	580
K520420		2.42	15.40	0.19	1.1	<0.005	2.49	60.9	14.3	0.85	87	0.57	2.11	2.9	4.8	590
K520421		3.68	15.55	0.18	1.2	<0.005	2.59	44.7	28.7	0.94	85	0.65	2.52	2.9	7.5	610
K520422		2.89	16.90	0.19	1.3	<0.005	3.67	34.0	9.9	0.95	137	0.84	1.72	3.2	6.2	610
K520423		2.89	16.25	0.20	1.2	<0.005	3.76	33.2	14.8	0.96	117	1.26	2.03	3.3	5.9	630
K520424		2.87	15.90	0.19	1.2	<0.005	2.62	46.5	19.3	0.89	82	0.91	2.51	2.8	5.7	620
K520425		2.52	17.40	0.17	1.1	<0.005	2.79	51.1	25.4	1.09	140	0.97	1.35	2.8	6.3	620





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Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
K520386		30.1	122.0	<0.002	2.80	2.33	6.0	3	3.1	333	0.29	0.17	7.6	0.126	0.94	3.2
K520387		11.5	110.0	<0.002	3.14	2.19	6.0	4	4.7	348	0.27	0.31	7.1	0.119	0.73	2.6
K520388		10.9	98.8	<0.002	3.43	1.85	6.0	3	5.5	365	0.35	0.14	6.7	0.148	0.70	2.4
K520389		16.7	107.0	<0.002	2.98	3.33	5.5	3	2.8	354	0.28	0.15	6.7	0.119	0.78	2.3
K520390		13.6	97.8	<0.002	2.91	3.26	5.6	3	3.0	317	0.29	0.19	6.6	0.126	0.78	2.4
K520391		19.1	121.0	<0.002	3.81	6.21	5.7	4	6.1	305	0.36	0.24	7.4	0.156	0.80	3.2
K520392		13.1	102.5	<0.002	2.10	6.20	5.9	3	5.4	361	0.38	0.20	7.2	0.171	0.75	2.8
K520393		13.9	120.5	<0.002	2.48	3.90	6.2	3	4.1	368	0.36	0.22	7.7	0.159	0.87	2.5
K520394		11.7	117.5	<0.002	2.31	7.38	5.8	3	5.8	312	0.37	0.14	7.6	0.169	0.85	2.8
K520395		28.0	158.0	<0.002	4.24	7.77	6.8	4	8.0	179.5	0.39	0.49	8.8	0.172	0.94	4.2
K520396		10.5	122.5	<0.002	2.70	2.33	5.8	3	4.4	329	0.39	0.27	7.4	0.173	0.86	2.8
K520397		76.1	132.5	<0.002	3.02	10.50	6.4	3	4.2	302	0.37	0.22	7.9	0.157	0.97	2.5
K520398		44.7	144.0	<0.002	3.01	13.85	5.8	3	3.3	281	0.30	0.26	7.3	0.137	1.20	3.5
K520399		21.8	137.0	<0.002	2.46	9.26	5.6	3	5.2	318	0.36	0.25	7.3	0.165	1.05	3.5
K520400		24.0	125.0	<0.002	2.83	6.35	5.7	3	4.4	308	0.33	0.24	7.1	0.152	1.04	3.0
K520401		21.9	117.5	<0.002	3.69	23.1	5.2	4	4.5	259	0.28	0.35	6.8	0.127	1.17	2.9
K520402		135.0	158.0	<0.002	3.49	34.7	5.6	3	5.0	160.5	0.23	0.30	7.5	0.105	1.23	3.4
K520403		164.0	155.5	<0.002	3.75	23.9	5.3	3	3.9	161.5	0.22	0.34	7.4	0.101	1.16	3.5
K520404		185.5	202	0.003	3.01	7.64	5.5	3	2.6	277	0.24	0.18	8.7	0.104	1.29	4.7
K520405		308	197.0	0.002	3.54	11.40	5.5	1	2.3	211	0.21	0.30	8.7	0.101	1.17	4.8
K520406		72.7	182.5	0.002	3.83	9.15	5.6	3	3.8	289	0.25	0.30	7.9	0.111	1.00	5.1
K520407		26.7	164.0	0.002	3.00	9.45	5.4	3	2.9	321	0.22	0.12	7.4	0.097	1.04	4.3
K520408		21.6	157.0	0.003	3.20	5.63	5.7	4	2.6	218	0.21	0.15	8.2	0.101	0.94	3.3
K520409		10.0	139.0	0.002	3.19	1.81	6.0	3	2.6	334	0.21	0.09	8.5	0.099	0.74	3.4
K520410		17.4	148.0	0.003	4.38	2.38	5.6	4	2.3	313	0.21	1.10	7.5	0.103	0.92	3.9
K520411		305	148.5	0.003	2.65	8.04	5.0	2	2.3	210	0.23	0.11	7.2	0.106	0.85	3.2
K520412		13.5	120.5	0.002	3.17	1.84	5.8	2	2.2	316	0.24	0.15	7.7	0.106	0.70	3.3
K520413		87.2	154.5	0.003	4.71	5.90	5.3	2	2.5	279	0.20	0.13	7.7	0.096	0.93	3.9
K520414		8.6	147.5	0.002	2.22	2.09	5.7	1	3.1	322	0.25	0.11	8.3	0.121	0.89	3.0
K520415		8.8	137.0	0.003	2.53	2.20	5.8	1	2.7	306	0.24	0.15	8.3	0.114	0.84	3.1
K520416		8.3	148.5	0.002	2.51	2.40	5.9	2	2.8	316	0.23	0.10	8.4	0.114	0.88	3.0
K520417		1.6	2.2	<0.002	0.02	<0.05	0.3	2	<0.2	48.9	<0.05	<0.05	0.2	<0.005	<0.02	0.9
K520418		12.3	154.5	0.003	2.08	1.74	5.4	<1	2.7	394	0.26	0.17	8.1	0.119	0.91	5.5
K520419		26.0	177.0	0.003	3.39	2.63	5.6	1	3.7	256	0.23	0.28	7.9	0.114	0.98	3.3
K520420		14.4	147.0	0.002	2.59	4.31	5.7	1	3.5	306	0.20	0.38	8.0	0.110	0.91	2.5
K520421		21.0	135.0	0.002	4.08	2.08	6.0	3	2.6	361	0.22	0.33	8.0	0.109	0.77	3.5
K520422		12.5	204	0.003	3.20	3.90	5.9	3	2.9	302	0.25	0.56	8.4	0.120	1.26	4.1
K520423		22.4	184.5	0.002	3.17	4.49	5.9	3	2.8	350	0.25	0.74	8.5	0.121	1.02	4.2
K520424		10.7	123.0	0.002	3.17	1.81	5.9	2	2.8	379	0.21	0.26	8.1	0.106	0.69	3.4
K520425		8.4	143.5	0.002	2.59	2.33	6.6	1	2.4	270	0.19	0.23	8.6	0.115	0.78	3.4





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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
K520386		50	4.4	7.0	40	36.3
K520387		49	4.0	7.9	24	33.7
K520388		49	5.0	8.0	34	35.2
K520389		48	3.8	6.7	42	35.2
K520390		51	4.2	7.4	31	37.4
K520391		47	11.0	9.8	36	38.3
K520392		51	6.4	9.2	24	37.8
K520393		52	6.0	8.8	30	38.4
K520394		49	7.0	9.8	25	38.7
K520395		53	9.7	9.9	48	40.8
K520396		51	6.2	8.9	26	36.0
K520397		52	7.6	10.6	524	35.8
K520398		51	5.0	8.2	50	36.7
K520399		51	5.1	8.4	41	34.8
K520400		49	5.2	8.0	29	38.6
K520401		48	6.0	7.6	171	37.0
K520402		50	6.6	8.0	91	37.9
K520403		46	4.6	8.8	226	35.8
K520404		46	6.0	8.0	81	37.3
K520405		47	9.0	5.0	236	36.3
K520406		48	7.9	8.1	104	39.5
K520407		46	4.3	7.6	31	37.5
K520408		47	6.7	8.7	25	37.4
K520409		50	4.5	8.9	22	39.1
K520410		48	9.0	8.1	25	36.3
K520411		44	4.8	8.6	57	34.0
K520412		49	5.4	7.1	22	34.7
K520413		43	5.5	8.1	28	33.6
K520414		50	4.9	9.7	20	35.1
K520415		49	4.9	9.6	19	33.3
K520416		51	5.0	10.1	19	34.9
K520417		2	0.1	1.2	16	0.5
K520418		49	4.9	9.1	28	34.4
K520419		47	6.3	10.5	112	36.1
K520420		50	7.2	10.4	24	35.5
K520421		51	8.6	7.7	47	36.4
K520422		52	7.3	9.7	26	37.4
K520423		50	7.0	9.4	32	36.6
K520424		50	7.5	10.8	25	36.3
K520425		55	6.2	10.2	22	34.6



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K520426		4.18	0.064	0.37	7.40	743	590	1.60	1.68	1.62	0.28	63.9	10.0	13	9.88	5.0
K520427		3.95	0.014	0.21	7.60	18.0	620	1.79	1.07	1.99	0.16	56.2	8.0	16	6.60	6.0
K520428		4.44	0.010	0.40	7.51	11.5	430	1.72	1.75	1.96	0.13	97.9	6.7	13	5.91	7.1
K520429		3.55	0.068	0.32	7.25	298	1110	1.84	0.76	1.91	0.72	96.1	5.0	14	8.13	5.7
K520430		4.34	0.026	0.37	7.14	38.2	500	1.61	2.57	2.09	0.32	68.4	10.5	14	7.60	9.1
K520431		3.32	0.113	2.95	7.69	651	650	1.61	4.21	2.14	11.70	113.0	9.4	18	7.95	19.1
K520432		4.78	0.024	3.24	7.39	37.8	460	1.76	3.02	1.98	2.25	34.8	12.2	16	8.09	9.1
K520433		4.37	0.011	0.17	7.56	17.5	630	1.47	1.08	1.84	0.25	46.6	11.2	17	6.16	9.0
K520434		2.89	0.052	0.32	7.36	333	990	1.86	1.65	1.91	0.42	67.3	7.4	17	9.25	6.9
K520435		3.39	0.037	0.19	7.34	429	1320	2.01	0.57	2.06	0.25	64.7	8.0	19	8.41	9.7
K520436		3.92	0.026	0.21	7.22	20.6	990	1.72	1.05	1.86	0.51	53.0	7.0	19	6.13	9.7
K520437		4.08	0.256	23.8	7.18	4800	600	1.72	1.99	2.09	36.5	44.9	7.4	18	11.10	74.3
K520438		4.58	0.344	14.80	7.40	1655	400	1.75	1.98	1.87	4.28	27.1	10.5	16	9.11	48.8
K520439		4.42	0.011	0.64	7.76	25.4	420	1.54	1.30	2.05	0.53	33.0	7.9	17	7.20	9.2
K520440		4.23	0.118	6.63	7.63	2140	590	1.46	0.56	2.02	20.8	27.1	7.5	22	10.30	19.2
K520441		4.71	0.049	5.32	7.26	1130	1040	1.44	0.68	2.22	12.75	23.2	6.6	16	10.25	13.4
K520442		4.01	0.047	0.42	7.36	753	1060	1.57	1.17	2.21	0.58	24.7	4.6	19	9.09	9.2
K520443		4.29	0.009	0.45	7.20	25.2	630	1.38	0.96	1.92	0.34	22.6	6.5	19	6.03	8.5
K520444		4.74	0.007	0.14	6.44	11.5	440	1.34	1.18	1.86	0.25	26.6	6.9	15	5.26	8.9
K520445		4.77	0.285	7.39	7.37	1620	960	1.45	0.66	1.97	4.25	15.25	7.0	14	8.58	37.9
K520446		4.38	0.009	0.21	7.32	12.9	670	1.47	0.61	2.18	0.20	9.47	7.5	15	7.27	13.8
K520447		4.50	0.007	0.09	7.26	14.6	860	1.51	0.56	2.24	0.15	16.10	10.6	18	6.57	8.9
K520448		4.11	0.010	0.08	7.69	16.3	530	1.61	0.71	1.72	0.17	42.7	9.4	19	6.67	7.1
K520449		4.66	0.014	0.27	7.67	16.1	590	1.69	0.76	1.78	0.65	52.5	7.9	22	5.68	6.1
K520450		2.37	0.014	0.37	6.72	17.9	190	1.59	1.24	2.22	0.45	30.6	19.5	17	5.40	7.4
K520451		2.28	0.008	0.32	7.07	14.7	300	1.63	24.4	1.73	0.50	28.2	11.8	18	5.36	8.2
K520452		<0.02	0.008	0.32	6.97	13.5	320	1.65	12.70	1.67	0.30	29.2	13.9	15	5.55	6.1
K520453		1.94	0.005	0.01	0.22	<5	30	0.16	0.13	20.1	0.06	1.44	2.3	3	0.30	2.6
K520454		4.25	0.432	27.5	6.92	3830	900	1.80	0.81	1.44	87.3	71.0	8.6	24	5.12	124.5
K520455		4.14	0.007	0.23	6.53	18.1	800	1.66	0.82	1.18	0.48	82.2	10.1	31	4.17	5.8
K520456		4.31	0.007	0.23	7.17	14.6	1360	2.50	1.10	1.24	0.27	109.0	7.6	21	4.59	6.1
K520457		4.11	0.023	5.82	6.20	93.4	800	1.42	1.15	0.82	1.41	75.0	6.5	12	2.89	20.4
K520458		4.36	0.013	0.54	6.41	252	840	1.20	0.88	0.83	0.38	36.2	8.8	13	2.66	4.8
K520459		3.81	0.044	1.39	6.87	243	1090	1.65	1.04	1.29	9.59	15.55	8.4	18	4.43	8.6
K520460		4.98	0.016	0.83	6.68	209	1130	1.40	1.25	1.30	1.08	10.30	7.0	19	3.85	4.5
K520461		4.72	0.205	7.78	6.86	1980	330	1.51	1.47	1.48	3.81	8.29	7.8	14	4.68	144.5
K520462		3.89	0.025	2.52	6.97	28.0	1150	1.62	0.73	1.65	8.35	7.70	5.9	29	4.34	10.5
K520463		4.09	0.022	1.86	7.05	106.5	650	1.39	1.51	1.44	2.50	15.40	7.4	12	4.24	22.3
K520464		3.80	0.008	0.32	6.88	13.9	940	1.63	0.76	2.30	0.33	17.40	7.6	12	5.01	4.8
K520465		3.46	0.405	2.98	8.07	751	470	1.89	0.89	2.12	29.7	52.2	12.8	10	7.51	42.5



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Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K520426		3.16	15.90	0.17	1.2	<0.005	3.11	30.1	33.0	0.95	185	1.98	0.39	2.6	5.5	610
K520427		2.48	16.20	0.16	1.0	<0.005	3.39	26.4	10.4	0.88	89	1.16	2.23	3.3	5.4	600
K520428		3.48	14.90	0.17	1.1	<0.005	3.42	48.2	11.1	0.94	96	0.91	1.82	2.5	4.5	580
K520429		1.90	15.20	0.17	1.0	<0.005	3.71	51.1	9.1	1.02	146	0.43	1.63	2.9	4.7	580
K520430		3.06	15.10	0.17	1.0	<0.005	2.84	34.0	9.1	0.98	107	3.38	1.97	2.8	6.4	570
K520431		3.24	16.85	0.21	1.1	0.065	4.32	56.6	12.6	0.93	168	1.91	1.20	3.3	6.6	600
K520432		2.84	15.55	0.12	1.3	0.010	3.30	16.5	11.3	0.72	99	2.18	1.86	2.8	6.4	570
K520433		2.49	16.25	0.14	1.1	<0.005	2.87	21.8	24.0	0.84	78	1.72	2.59	3.2	6.1	590
K520434		2.13	16.25	0.14	1.2	<0.005	3.01	30.9	16.7	0.83	85	1.00	2.18	3.4	6.4	570
K520435		2.03	18.00	0.16	1.2	<0.005	3.00	29.8	23.0	0.84	98	1.49	2.36	3.9	6.9	600
K520436		2.18	16.55	0.14	1.2	<0.005	3.02	24.0	18.6	0.81	86	1.32	2.31	3.5	6.3	580
K520437		2.80	16.10	0.11	1.2	0.171	3.53	20.5	18.1	0.76	145	5.61	1.21	3.2	6.4	570
K520438		3.19	15.50	0.14	1.2	0.016	3.12	12.0	18.4	0.96	151	3.02	1.07	2.6	6.9	580
K520439		2.62	15.60	0.12	1.2	0.005	3.64	14.9	15.0	0.84	133	1.94	2.18	3.3	6.5	620
K520440		2.79	17.00	0.11	1.3	0.123	3.23	12.5	13.6	0.79	125	2.43	2.01	3.8	7.2	600
K520441		2.19	17.40	0.08	1.3	0.086	3.10	10.4	12.7	0.80	119	2.42	1.83	3.7	6.7	590
K520442		2.20	16.60	0.11	1.3	0.007	3.07	9.8	17.0	0.87	103	4.69	1.67	4.2	6.5	610
K520443		2.55	17.55	0.11	1.4	0.007	3.54	9.8	16.9	0.74	111	3.22	1.80	4.0	7.6	620
K520444		2.18	16.40	0.10	1.4	0.006	2.95	11.5	22.1	0.76	82	3.11	2.13	4.3	5.8	600
K520445		2.25	16.70	0.10	1.4	0.019	3.28	5.6	20.1	0.76	112	2.89	1.37	3.8	5.7	590
K520446		2.46	15.75	0.09	1.3	<0.005	3.14	3.6	15.2	0.73	88	4.21	1.82	4.0	5.6	580
K520447		2.38	16.15	0.10	1.4	<0.005	2.63	6.9	15.8	0.72	76	3.58	2.62	3.9	5.8	610
K520448		2.56	18.55	0.11	1.4	0.008	2.84	21.8	18.1	0.90	70	10.10	2.89	5.2	7.2	600
K520449		2.46	19.25	0.10	1.4	0.011	2.65	28.0	17.8	0.87	74	4.78	3.00	5.5	6.4	640
K520450		5.80	15.30	0.16	1.1	0.008	2.63	14.3	14.0	0.71	75	5.57	2.16	4.2	18.4	450
K520451		4.34	15.50	0.13	1.1	0.005	2.72	13.3	12.9	0.70	74	5.41	2.22	4.4	11.1	460
K520452		4.59	15.50	0.15	1.2	0.005	2.75	13.7	14.2	0.69	70	5.71	2.16	4.2	12.3	460
K520453		0.49	0.44	<0.05	<0.1	<0.005	0.07	0.7	2.4	12.80	205	0.14	0.02	0.3	3.3	210
K520454		3.40	12.85	0.15	0.7	0.381	4.53	40.3	7.1	0.83	122	3.88	1.12	5.9	8.0	410
K520455		2.31	13.15	0.11	0.8	0.011	4.64	48.1	6.1	0.86	91	5.34	1.29	6.4	6.9	220
K520456		2.21	15.90	0.14	0.8	0.012	4.52	66.2	7.8	0.85	103	3.53	1.53	8.5	5.7	370
K520457		2.62	11.70	0.12	0.8	0.007	4.56	43.8	7.6	0.57	134	3.61	0.73	6.6	4.3	170
K520458		2.32	11.25	0.11	0.7	0.007	5.61	18.0	6.9	0.57	119	3.47	0.40	6.1	4.7	230
K520459		3.11	13.40	0.13	1.0	0.029	5.07	6.6	9.3	0.81	169	4.55	0.25	4.7	6.1	390
K520460		2.66	12.90	0.12	1.2	0.008	5.40	4.1	8.7	0.83	164	3.35	0.27	5.0	5.4	390
K520461		3.60	12.95	0.13	1.3	0.029	5.56	3.2	7.6	0.64	183	3.69	0.13	4.4	4.8	410
K520462		1.96	12.35	0.12	1.5	0.043	5.71	3.0	8.6	0.40	166	11.65	0.14	7.0	5.1	290
K520463		2.25	14.75	0.14	1.3	0.020	6.33	6.6	9.4	0.74	193	3.85	0.17	5.1	4.6	400
K520464		2.40	14.80	0.10	1.4	0.005	4.59	7.6	22.3	0.79	161	5.62	0.21	4.8	5.2	490
K520465		2.94	21.5	0.14	2.0	0.115	2.07	25.0	53.5	0.76	130	5.88	0.24	4.5	5.3	740



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**CERTIFICATE OF ANALYSIS WH11144877**

Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
K520426		23.5	166.0	0.004	3.44	4.91	5.9	2	2.6	141.5	0.20	0.51	8.7	0.101	0.90	4.9
K520427		10.9	156.5	0.002	2.68	2.47	6.2	2	2.6	384	0.25	0.15	8.1	0.120	0.91	3.0
K520428		9.6	145.0	0.002	3.82	3.33	5.9	3	2.8	294	0.21	0.11	8.2	0.106	0.85	2.7
K520429		44.5	172.5	0.002	1.95	2.07	5.5	1	2.3	337	0.23	0.10	8.0	0.114	1.11	2.3
K520430		43.0	142.5	0.004	3.35	7.44	5.5	3	3.4	311	0.22	0.28	7.7	0.109	0.86	2.6
K520431		279	218	0.003	3.47	12.30	6.0	2	3.1	273	0.26	0.57	9.0	0.124	1.36	3.3
K520432		416	169.5	0.003	3.11	4.98	5.1	2	2.4	337	0.21	0.13	7.6	0.101	0.98	3.3
K520433		11.6	133.5	0.002	2.47	1.27	5.8	1	2.4	471	0.24	0.08	8.2	0.128	0.71	4.8
K520434		30.3	149.5	0.002	2.15	2.13	6.0	1	2.2	403	0.25	0.08	7.6	0.128	0.94	3.8
K520435		12.9	154.0	0.003	1.94	1.74	6.5	1	2.4	457	0.28	<0.05	8.2	0.136	0.93	3.4
K520436		29.8	150.5	0.003	2.24	1.72	5.9	1	2.5	435	0.27	0.13	8.2	0.129	0.84	4.4
K520437		1110	183.0	0.003	2.95	62.0	5.7	1	3.1	269	0.26	0.18	8.0	0.119	1.22	3.6
K520438		3020	173.5	0.003	3.50	575	5.7	2	3.2	239	0.20	0.16	7.8	0.108	1.03	4.3
K520439		57.4	169.5	0.003	2.77	3.87	5.7	1	2.9	417	0.27	0.20	7.6	0.127	1.10	3.3
K520440		1125	165.5	<0.002	3.18	111.5	6.5	2	2.5	373	0.31	0.06	7.3	0.142	1.23	3.6
K520441		748	138.0	<0.002	2.45	9.90	6.1	2	2.1	348	0.30	<0.05	6.9	0.134	1.13	3.2
K520442		37.5	145.5	<0.002	2.48	3.88	6.6	2	3.1	282	0.34	0.07	7.3	0.155	1.08	2.8
K520443		46.2	135.0	<0.002	2.86	2.19	6.5	3	2.5	319	0.32	0.07	6.8	0.144	0.95	3.1
K520444		12.8	93.8	<0.002	2.50	1.54	5.8	2	2.2	349	0.33	<0.05	5.9	0.150	0.75	3.0
K520445		134.5	142.5	<0.002	2.51	32.2	6.2	2	2.8	278	0.31	0.07	7.2	0.136	1.06	3.5
K520446		17.9	131.0	0.002	2.82	1.73	5.8	2	2.9	309	0.33	0.05	7.5	0.145	0.89	3.7
K520447		9.3	97.3	0.002	2.70	1.13	6.0	2	2.0	404	0.32	0.05	6.8	0.141	0.72	3.5
K520448		10.1	107.5	0.003	2.72	1.19	6.8	3	1.4	510	0.42	0.12	10.0	0.163	0.70	4.5
K520449		74.1	105.0	0.002	2.63	1.13	6.9	3	1.9	563	0.42	0.10	8.4	0.192	0.65	4.9
K520450		72.8	103.5	<0.002	7.09	2.53	5.8	8	1.5	297	0.33	0.12	9.4	0.117	0.68	3.3
K520451		52.6	114.0	<0.002	4.97	3.50	5.3	6	1.2	306	0.36	0.17	11.0	0.111	0.72	3.7
K520452		48.6	115.5	<0.002	5.27	2.58	5.4	6	1.2	302	0.35	0.14	10.8	0.113	0.72	3.6
K520453		2.4	2.9	<0.002	0.04	0.09	0.3	1	<0.2	51.8	<0.05	<0.05	0.2	0.007	0.02	0.5
K520454		4570	171.5	0.002	3.88	223	5.6	5	2.1	220	0.48	0.16	24.4	0.129	1.12	3.8
K520455		19.9	157.5	0.002	2.40	2.21	4.4	3	1.4	242	0.60	0.12	25.6	0.099	0.99	5.9
K520456		20.7	168.0	<0.002	2.20	2.43	4.8	2	1.8	257	0.77	0.12	31.3	0.124	1.03	6.0
K520457		684	163.0	0.002	2.86	15.25	2.8	3	1.5	162.0	0.63	0.12	26.3	0.070	1.08	3.0
K520458		54.2	160.0	<0.002	2.52	2.66	3.0	3	1.3	198.0	0.53	0.13	25.1	0.072	1.23	3.1
K520459		185.0	174.0	0.002	3.54	3.81	5.9	3	2.2	168.0	0.44	0.14	19.2	0.098	1.23	3.7
K520460		74.7	182.5	<0.002	2.97	3.65	5.0	3	2.2	189.5	0.48	0.10	16.9	0.089	1.28	4.8
K520461		3140	156.5	<0.002	4.21	1095	6.1	4	2.2	191.0	0.35	0.16	11.5	0.101	1.41	2.5
K520462		361	195.0	0.004	2.19	6.29	5.0	3	3.4	192.5	0.72	0.12	20.7	0.094	1.26	4.0
K520463		47.4	212	<0.002	2.40	12.95	5.7	4	2.3	238	0.45	0.08	12.5	0.114	1.46	3.2
K520464		17.8	140.5	0.002	2.68	2.80	6.4	3	2.0	254	0.41	0.10	9.6	0.139	1.04	3.4
K520465		875	91.1	0.003	3.25	170.5	7.6	3	2.4	187.0	0.35	0.15	8.6	0.209	0.77	6.5



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
K520426		47	5.7	7.9	28	35.8
K520427		50	5.3	5.1	20	34.9
K520428		52	6.9	7.7	17	31.3
K520429		50	7.1	9.2	48	30.5
K520430		48	6.3	6.8	26	30.4
K520431		51	7.0	12.1	606	35.0
K520432		44	6.0	7.4	113	34.5
K520433		50	4.1	11.0	28	34.9
K520434		50	3.7	9.4	34	33.7
K520435		53	3.4	9.5	29	38.5
K520436		51	3.3	9.5	40	36.8
K520437		48	6.3	8.4	1660	35.9
K520438		49	4.4	9.6	209	35.1
K520439		52	4.3	9.3	43	35.1
K520440		49	5.2	8.4	1240	38.6
K520441		48	3.9	7.4	695	38.3
K520442		52	4.7	9.1	43	39.3
K520443		50	3.5	7.1	30	40.2
K520444		51	3.7	8.1	27	40.5
K520445		49	3.8	7.8	313	39.9
K520446		44	4.6	6.9	23	38.2
K520447		47	3.2	8.8	23	39.1
K520448		50	3.1	12.5	24	42.5
K520449		52	3.0	13.1	50	40.9
K520450		37	2.8	11.5	36	31.0
K520451		35	2.7	10.6	38	32.5
K520452		34	2.6	10.9	26	34.0
K520453		3	0.1	1.0	14	0.7
K520454		35	4.4	10.3	4470	23.8
K520455		24	3.0	8.9	40	27.5
K520456		34	3.6	10.8	28	28.6
K520457		16	2.8	7.0	84	25.1
K520458		18	2.9	6.3	32	22.6
K520459		35	3.8	8.9	582	29.9
K520460		29	4.1	8.6	67	33.9
K520461		33	8.1	7.8	214	39.3
K520462		22	15.4	7.5	427	42.2
K520463		32	7.0	7.5	135	36.2
K520464		41	7.3	9.0	29	39.3
K520465		64	6.8	11.5	1640	61.8



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K520466		4.38	0.012	0.13	7.12	20.3	610	2.04	0.83	2.53	0.70	41.3	10.7	21	5.38	11.7
K520467		4.01	0.004	0.19	5.96	10.1	910	2.05	0.76	2.16	0.35	48.2	5.5	12	3.72	3.8
K520468		4.11	0.113	1.46	6.35	1020	930	2.54	0.84	1.67	1.46	83.4	5.8	11	3.66	19.0
K520469		4.30	0.014	1.08	5.77	17.4	900	2.22	0.53	2.19	5.13	18.30	6.3	16	2.67	23.2
K520470		4.35	0.005	0.38	6.05	12.4	720	1.83	1.03	1.48	0.42	26.2	10.1	10	3.06	5.8
K520471		4.16	0.022	1.08	6.74	31.5	690	1.77	1.00	2.51	1.54	26.4	11.3	8	7.43	25.2
K520472		3.85	0.011	0.44	6.96	18.2	340	1.85	7.87	3.23	0.44	31.5	7.9	8	9.30	11.6
K520473		4.07	0.027	0.33	6.60	298	410	1.65	1.78	2.17	0.21	34.1	7.5	7	7.33	6.1
K520474		4.83	0.012	1.15	7.00	17.0	680	1.68	2.08	2.35	1.87	34.6	6.4	7	4.36	10.2
K520475		4.03	0.013	0.39	7.02	15.7	470	1.49	0.97	2.10	1.80	41.7	9.2	8	3.78	7.9
K520476		4.51	0.063	0.87	6.44	175.5	460	1.35	2.50	2.26	4.14	39.0	8.6	9	4.89	29.1
K520477		3.79	0.026	0.55	5.87	17.3	340	1.40	1.17	1.98	2.38	34.0	7.7	9	3.32	36.1
K520478		3.67	0.009	0.42	5.95	12.7	720	1.11	0.67	2.16	4.52	43.3	7.7	10	3.50	11.7
K520479		4.57	0.007	0.43	6.16	12.8	330	1.34	0.91	2.30	1.04	37.2	10.0	9	4.45	9.5
K520480		4.43	0.009	0.12	6.15	8.1	190	1.60	1.83	2.37	0.09	37.2	9.1	18	4.76	8.6
K520481		4.17	0.008	0.53	6.37	16.3	160	1.80	1.96	2.34	0.29	45.5	8.9	14	4.76	9.3
K520482		4.47	0.008	0.33	6.42	15.1	250	1.63	4.72	2.14	0.95	43.8	7.9	12	5.23	7.0
K520483		4.10	0.007	0.07	7.71	12.1	430	1.97	0.77	2.89	0.10	45.3	13.4	12	5.76	10.4
K520484		4.46	0.012	0.94	6.72	49.9	420	1.77	2.91	2.34	0.45	61.4	18.1	26	4.74	35.4
K520485		3.83	0.012	0.38	7.13	33.1	470	1.67	1.38	2.74	0.48	49.6	26.1	68	11.40	9.3
K520486		1.74	0.045	0.28	5.03	346	980	1.26	0.90	2.73	0.24	34.7	10.5	13	5.03	8.0
K520487		1.89	0.051	0.41	5.23	436	300	1.30	0.93	2.22	0.29	32.2	12.2	13	4.82	10.3
K520488		<0.02	0.050	0.42	5.56	385	320	1.39	0.98	2.19	0.34	30.5	12.7	11	5.08	10.1
K520489		1.57	0.001	<0.01	0.10	<5	30	0.06	0.03	20.8	0.06	1.57	1.4	<1	0.17	2.0
K520490		4.33	0.021	0.13	6.29	10.5	330	1.57	1.14	2.07	0.10	54.1	9.7	19	4.17	8.5
K520491		4.14	0.026	0.16	6.48	6.6	860	1.57	0.79	2.02	0.13	56.7	8.6	12	3.29	7.0
K520492		4.08	0.010	0.24	7.50	13.9	620	1.89	2.82	2.83	0.07	53.7	14.6	79	8.96	21.1
K520493		3.77	0.007	0.14	6.92	35.2	420	1.77	0.60	2.76	0.11	28.0	11.2	15	10.30	19.1
K520494		3.79	0.009	0.09	7.50	17.0	380	2.03	0.80	2.10	0.12	47.4	18.4	29	7.87	13.7
K520495		4.73	0.004	0.13	6.46	5.5	550	1.88	0.55	1.59	0.25	40.5	7.8	14	4.69	6.3
K520496		3.71	0.008	0.06	6.47	11.5	210	2.15	0.42	1.68	0.07	22.8	10.9	10	3.12	14.8
K520497		4.33	0.052	0.71	6.28	941	410	2.13	0.36	1.74	9.99	35.0	7.9	17	4.86	13.1
K520498		4.12	0.020	0.24	6.76	9.1	350	2.09	0.73	1.70	0.14	52.0	8.7	15	4.10	81.7
K520499		4.18	0.009	0.14	6.22	9.8	350	2.35	0.55	1.75	0.23	34.0	8.2	11	3.43	43.5
K520500		3.47	0.052	1.82	6.30	576	760	2.29	0.60	1.75	0.27	48.7	10.0	16	5.93	88.7
K520501		3.54	0.004	0.24	5.57	28.4	660	2.21	0.34	1.32	0.26	29.2	8.6	12	3.68	122.5
K520502		3.35	0.023	1.09	6.92	296	860	1.99	0.44	2.47	0.44	43.3	10.8	12	6.86	196.5
K520503		2.91	0.856	7.76	7.43	4700	770	2.14	0.60	3.09	7.06	44.0	12.2	13	9.66	297



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**CERTIFICATE OF ANALYSIS WH11144877**

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K520466		2.42	20.1	0.12	1.8	0.014	1.98	19.7	49.5	0.71	81	6.91	0.14	6.6	7.5	580
K520467		1.99	13.55	0.13	1.3	0.007	3.46	23.5	12.5	0.75	110	3.62	0.86	9.0	3.9	120
K520468		1.69	14.00	0.14	1.4	0.018	3.86	40.6	12.1	0.78	135	8.33	0.88	9.6	2.9	170
K520469		1.73	12.80	0.11	1.3	0.032	3.14	8.5	6.3	0.46	126	10.75	1.64	9.5	2.7	100
K520470		2.23	14.25	0.11	0.9	0.009	2.77	12.1	6.0	0.58	101	4.62	1.94	6.7	3.0	230
K520471		3.03	19.80	0.13	0.5	0.032	1.82	10.8	17.8	1.01	181	9.68	2.59	4.2	2.1	660
K520472		3.24	22.0	0.13	0.5	0.031	1.52	13.4	16.2	0.90	147	5.15	2.70	4.6	2.0	640
K520473		2.60	18.65	0.12	0.4	0.009	2.33	14.4	8.9	0.82	160	5.35	2.09	4.3	2.1	630
K520474		2.37	19.50	0.11	0.4	0.018	1.86	14.0	16.0	0.98	111	2.34	3.01	4.1	2.1	640
K520475		2.95	18.30	0.12	0.4	0.017	1.92	17.6	20.7	1.20	91	4.03	2.80	2.9	2.5	610
K520476		2.59	19.20	0.11	0.5	0.022	1.95	16.8	13.8	0.96	128	3.19	2.50	4.6	3.0	590
K520477		2.36	16.95	0.12	0.6	0.021	1.72	15.3	10.0	0.63	91	3.44	2.17	4.4	3.1	310
K520478		1.81	15.30	0.11	0.7	0.023	1.79	20.4	6.8	0.38	87	6.79	2.07	4.1	1.8	150
K520479		2.38	17.35	0.11	0.6	0.017	1.51	16.7	14.5	0.73	102	2.28	2.29	4.9	2.9	300
K520480		2.03	16.85	0.09	0.5	0.020	0.99	17.5	20.5	0.94	120	17.30	2.91	6.9	4.8	330
K520481		1.81	16.80	0.11	0.6	0.011	1.31	21.4	18.8	0.76	91	5.19	2.41	7.2	5.4	220
K520482		1.51	16.20	0.11	0.6	0.011	1.47	20.4	12.0	0.58	85	13.95	2.51	7.3	4.4	240
K520483		2.13	21.5	0.14	0.9	0.018	1.99	19.8	21.6	0.93	130	5.33	3.34	8.7	5.8	380
K520484		4.43	18.05	0.17	0.7	0.016	2.48	29.3	15.4	1.05	136	10.25	2.09	7.9	15.1	460
K520485		4.95	18.60	0.18	0.5	0.011	2.47	22.3	16.9	2.01	216	5.67	1.75	5.1	30.1	360
K520486		1.94	12.00	0.10	0.6	0.007	1.74	15.3	17.3	0.50	125	4.90	1.43	4.6	4.8	170
K520487		2.46	12.40	0.12	0.5	0.008	1.73	14.3	16.5	0.53	111	5.56	1.48	4.4	5.5	190
K520488		2.43	13.30	0.11	0.5	0.008	1.81	13.3	18.1	0.56	106	4.81	1.53	4.6	5.0	190
K520489		0.46	0.31	<0.05	<0.1	<0.005	0.04	0.8	1.1	12.95	219	0.13	0.02	0.3	1.7	210
K520490		2.86	16.60	0.10	0.8	0.013	1.56	26.7	22.0	0.75	86	4.89	2.56	5.5	3.7	250
K520491		2.02	18.15	0.10	1.0	0.015	1.30	26.2	51.6	1.08	108	4.08	3.16	7.6	5.1	390
K520492		3.73	21.8	0.13	0.8	0.039	2.13	24.9	32.5	3.10	241	15.55	2.50	4.8	31.8	410
K520493		2.24	17.40	0.10	0.9	0.012	1.59	10.6	23.5	1.08	134	7.06	2.75	6.9	8.5	460
K520494		3.62	21.5	0.14	0.9	0.008	1.69	20.9	23.6	1.94	99	18.35	3.00	6.1	11.4	350
K520495		1.84	17.35	0.11	1.0	0.007	1.80	17.0	17.0	0.94	74	18.95	2.82	7.9	2.8	340
K520496		1.72	17.70	0.10	0.8	0.005	1.45	9.0	13.0	0.68	76	8.62	3.12	8.6	3.0	240
K520497		1.46	17.40	0.10	0.7	0.033	1.36	14.4	12.3	0.66	103	4.27	3.13	8.3	3.3	220
K520498		2.11	19.15	0.13	0.7	0.011	1.61	23.6	13.3	0.64	75	3.04	3.22	8.6	5.2	290
K520499		1.98	18.60	0.10	0.7	0.010	1.56	15.1	14.2	0.80	77	2.99	2.78	7.2	2.6	230
K520500		2.35	19.25	0.13	1.0	0.012	2.72	22.3	12.9	0.82	98	7.95	1.64	16.8	4.4	210
K520501		1.34	16.70	0.10	1.9	0.011	2.83	14.2	10.9	0.55	85	17.50	1.39	20.5	4.3	40
K520502		2.19	18.30	0.12	2.0	0.014	2.99	20.6	24.4	0.69	123	4.92	1.74	10.7	5.1	390
K520503		2.84	18.85	0.23	1.9	0.026	2.87	21.0	29.4	1.01	204	2.56	1.49	5.7	6.2	580





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**CERTIFICATE OF ANALYSIS WH11144877**

Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
K520466		13.2	65.5	0.002	2.60	3.39	6.8	3	1.7	168.0	0.61	0.13	14.1	0.183	0.52	6.3
K520467		17.0	118.5	0.002	2.16	2.79	2.0	2	1.1	180.0	1.04	0.06	32.1	0.055	0.86	8.5
K520468		78.8	139.5	0.004	1.73	11.20	2.4	2	3.2	159.0	1.23	0.10	33.0	0.068	0.92	5.2
K520469		139.5	110.5	0.005	1.92	7.03	1.7	2	1.3	182.5	1.14	0.08	28.5	0.054	0.69	3.9
K520470		31.6	102.0	0.002	2.50	2.09	5.3	3	2.4	186.0	0.66	0.09	20.1	0.103	0.64	4.0
K520471		181.0	79.4	0.007	3.42	2.88	15.9	3	5.3	280	0.28	0.10	2.7	0.284	0.74	1.3
K520472		13.9	74.2	<0.002	3.75	2.06	15.3	4	5.0	456	0.32	0.23	3.3	0.270	0.68	1.6
K520473		13.5	114.5	0.002	3.00	2.74	15.6	3	4.3	170.0	0.28	0.10	3.3	0.258	0.91	1.5
K520474		273	84.6	<0.002	2.72	3.11	17.5	3	4.7	281	0.29	0.09	3.4	0.259	0.58	1.4
K520475		62.9	98.6	<0.002	3.37	1.27	16.8	4	3.0	281	0.20	0.09	3.7	0.213	0.58	1.7
K520476		203	97.2	0.002	3.04	20.5	14.1	3	4.8	247	0.36	0.13	4.1	0.257	0.78	1.7
K520477		62.5	81.6	0.002	2.65	1.56	10.8	3	3.7	198.5	0.34	0.12	5.1	0.162	0.52	1.5
K520478		53.5	84.3	0.005	2.09	1.87	6.9	3	1.9	195.5	0.37	0.09	6.4	0.096	0.53	1.7
K520479		10.1	80.0	0.002	2.75	1.73	10.9	3	3.9	267	0.39	0.08	4.8	0.186	0.60	1.4
K520480		5.8	61.9	0.018	2.31	0.64	10.2	3	4.0	417	0.56	0.11	7.4	0.205	0.44	1.9
K520481		25.5	72.7	0.002	2.06	0.60	7.1	3	3.8	278	0.62	0.09	9.8	0.144	0.50	2.1
K520482		11.0	94.0	0.007	1.73	1.20	5.9	3	2.7	1350	0.66	0.13	11.3	0.145	0.67	2.6
K520483		6.1	89.2	0.003	2.35	1.10	9.7	3	3.9	349	0.70	0.08	9.7	0.212	0.69	2.7
K520484		41.6	104.5	0.007	5.21	6.88	7.7	5	5.5	249	0.61	0.13	13.4	0.207	0.75	3.2
K520485		14.9	142.0	0.004	5.53	4.50	16.2	6	2.7	289	0.37	0.09	6.7	0.229	1.17	2.3
K520486		13.7	80.9	0.003	2.21	3.35	5.5	3	2.1	398	0.37	0.07	7.1	0.095	0.59	1.7
K520487		15.1	83.1	0.003	2.79	3.90	5.7	3	2.2	207	0.35	0.10	7.1	0.090	0.57	1.7
K520488		14.1	88.8	0.003	2.76	4.02	6.0	3	2.4	213	0.38	0.09	7.3	0.093	0.60	1.7
K520489		1.5	1.9	<0.002	0.02	0.06	0.3	1	<0.2	52.3	<0.05	<0.05	<0.2	<0.005	<0.02	0.5
K520490		5.5	78.3	0.003	3.38	1.71	7.3	3	2.7	233	0.44	0.08	8.4	0.123	0.54	2.1
K520491		10.4	63.3	0.002	2.29	1.79	5.7	3	3.8	207	0.61	0.05	9.3	0.173	0.47	1.8
K520492		5.8	106.0	0.006	3.50	1.50	17.9	4	4.3	325	0.37	0.19	6.0	0.262	1.04	1.9
K520493		16.5	77.8	0.004	2.34	3.87	7.7	3	3.3	432	0.53	0.05	8.7	0.181	0.70	3.1
K520494		6.3	105.0	0.012	3.87	1.47	11.8	4	3.5	433	0.48	0.12	8.2	0.210	0.78	2.9
K520495		11.5	92.1	0.011	1.94	1.33	6.2	2	4.0	231	0.62	0.05	12.1	0.154	0.55	3.6
K520496		3.6	78.6	0.004	1.87	1.11	5.1	2	3.2	185.5	0.73	0.05	12.5	0.125	0.49	3.0
K520497		119.0	80.9	0.002	1.55	22.6	5.7	2	2.4	221	0.71	0.05	10.6	0.124	0.55	2.6
K520498		9.7	87.7	0.002	2.28	2.13	6.1	3	3.1	283	0.71	0.05	12.4	0.146	0.54	3.3
K520499		7.2	76.1	0.002	1.85	1.30	10.2	3	3.4	239	0.67	<0.05	10.1	0.159	0.48	2.5
K520500		8.4	134.0	0.004	2.09	13.40	6.9	3	3.5	218	1.34	0.06	20.1	0.141	0.91	9.3
K520501		9.8	112.5	0.006	0.84	4.16	1.9	2	0.9	174.5	2.05	0.05	30.2	0.036	0.72	8.6
K520502		14.2	121.0	0.002	1.66	7.14	4.9	3	1.8	413	0.98	0.06	15.6	0.127	1.12	5.4
K520503		1665	141.0	<0.002	2.16	589	6.2	4	2.2	382	0.46	0.13	9.8	0.165	1.33	3.9



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
K520466		53	5.6	11.1	48	58.3
K520467		13	2.5	6.8	27	36.9
K520468		16	5.2	8.6	91	39.3
K520469		10	3.4	5.5	258	36.9
K520470		22	2.9	9.9	30	24.6
K520471		78	6.2	17.1	89	9.9
K520472		56	4.3	23.6	35	10.8
K520473		55	5.4	16.7	22	8.3
K520474		68	5.0	20.4	104	8.4
K520475		73	4.3	21.2	109	7.7
K520476		61	6.0	18.2	251	9.5
K520477		41	8.1	14.8	123	15.8
K520478		16	2.8	12.8	203	21.3
K520479		44	3.3	19.5	57	15.0
K520480		41	3.3	20.0	20	14.3
K520481		23	3.3	20.5	22	18.5
K520482		19	2.8	17.6	54	18.2
K520483		38	3.2	21.1	23	28.2
K520484		36	6.7	17.7	38	22.7
K520485		79	5.8	15.8	42	16.4
K520486		17	4.7	12.5	20	18.4
K520487		17	4.6	11.3	24	15.2
K520488		17	5.1	12.0	25	16.7
K520489		3	0.1	1.0	17	<0.5
K520490		22	4.5	15.0	15	23.8
K520491		29	3.4	13.3	17	31.9
K520492		100	4.5	20.1	33	24.0
K520493		37	5.2	14.2	18	28.2
K520494		53	4.5	21.1	27	27.6
K520495		25	4.8	15.7	23	30.8
K520496		17	5.4	12.4	13	24.8
K520497		19	3.0	12.9	598	24.5
K520498		19	6.0	18.7	16	21.2
K520499		38	6.7	25.7	21	17.3
K520500		30	8.5	24.4	23	23.4
K520501		8	2.9	13.8	20	39.0
K520502		34	5.8	14.7	34	52.9
K520503		43	8.4	13.6	462	57.5



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Method	CERTIFICATE COMMENTS
ME-MS61 ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in this method.