



ALS USA Inc.
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To: RED RIVER CREEK MINING GROUP LLC
1712 CAREY AVENUE
SUITE 100
CHEYENNE WY 82001

Page: 1
Total # Pages: 4 (A - E)
Plus Appendix Pages
Finalized Date: 21-APR-2020
Account: KEERRG

CERTIFICATE RE20065194

This report is for 86 Soil samples submitted to our lab in Reno, NV, USA on 18-MAR-2020.

The following have access to data associated with this certificate:

STEPHAN FINCH

LARRY MCMASTER

CHARLES REDDIEN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
DRY-22	Drying - Maximum Temp 60C
LOG-24	Pulp Login - Rcd w/o Barcode
BAG-01	Bulk Master for Storage
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both
SND-ALS	Send samples to internal laboratory

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Ag-AA45	Trace Ag - aqua regia/AAS	AAS
Rh-MS25	Rh 30g FA ICP-MS	ICP-MS
ME-MS61r	4A multi-element ICP-MS + REE	
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim 'or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project. Statement required by Nevada State Law NRS 519

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.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS RE20065194

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	PGM-ICP23 Au ppm	PGM-ICP23 Pt ppm	PGM-ICP23 Pd ppm	Ag-AA45 Ag ppm	Rh-MS25 Rh ppm	ME-MS61r Ag ppm	ME-MS61r Al %	ME-MS61r As ppm	ME-MS61r Ba ppm	ME-MS61r Be ppm	ME-MS61r Bi ppm	ME-MS61r Ca %	ME-MS61r Cd ppm	ME-MS61r Ce ppm
		0.02	0.001	0.005	0.001	0.2	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01
154892		8.43	0.044	<0.005	<0.001	0.2	0.001	0.23	7.83	64.6	670	2.16	0.22	3.64	0.13	64.9
154893		11.83	0.040	<0.005	<0.001	<0.2	0.001	0.19	7.90	60.9	670	2.22	0.22	3.64	0.13	63.5
154894		6.85	0.037	<0.005	<0.001	<0.2	0.002	0.24	7.38	63.6	680	1.92	0.20	3.99	0.14	58.8
154895		10.36	0.040	<0.005	0.001	<0.2	0.001	0.13	7.84	63.6	720	1.97	0.21	3.94	0.12	60.2
154896		8.52	0.034	<0.005	<0.001	<0.2	<0.001	0.14	7.85	58.2	690	2.09	0.21	3.68	0.13	62.6
154897		9.62	0.039	<0.005	<0.001	0.2	0.001	0.17	7.55	62.1	650	2.09	0.21	3.31	0.14	55.1
154898		7.76	0.029	<0.005	<0.001	<0.2	<0.001	0.08	7.73	54.3	680	2.08	0.21	3.88	0.10	61.4
154899		8.60	0.029	<0.005	0.001	0.2	0.001	0.11	7.74	45.1	660	2.04	0.21	3.65	0.12	62.8
154900		8.93	0.014	<0.005	<0.001	<0.2	0.001	0.11	7.21	32.2	570	2.02	0.22	3.25	0.15	54.1
154601		12.39	0.015	<0.005	<0.001	0.2	<0.001	0.10	7.67	33.2	570	2.19	0.22	2.69	0.17	66.2
154602		9.25	0.015	<0.005	<0.001	0.2	<0.001	0.11	7.55	36.6	610	2.18	0.22	3.26	0.15	58.6
154603		8.40	0.014	<0.005	<0.001	0.2	0.001	0.18	7.46	36.1	850	1.87	0.15	4.23	0.11	58.8
154604		8.70	0.108	<0.005	0.001	0.2	<0.001	0.13	7.49	39.5	770	1.85	0.16	4.30	0.11	63.8
154605		9.42	0.024	<0.005	0.001	0.2	<0.001	0.14	7.38	40.6	770	1.89	0.17	4.05	0.13	60.7
154606		8.18	0.019	<0.005	0.001	<0.2	0.001	0.11	7.44	39.6	750	1.73	0.16	4.48	0.17	55.5
154607		14.01	0.004	<0.005	0.001	<0.2	0.001	0.05	7.36	6.8	550	1.25	0.09	8.24	0.10	63.4
154608		12.82	0.004	<0.005	0.001	<0.2	<0.001	0.07	8.42	8.6	520	1.22	0.14	6.79	0.13	44.3
154609		16.93	0.006	<0.005	<0.001	0.2	<0.001	0.08	8.35	5.1	1260	1.26	0.05	3.85	0.07	85.0
154610		12.59	0.024	<0.005	<0.001	0.5	<0.001	0.51	7.83	50.7	810	1.85	0.16	2.25	0.08	71.5
154611		23.64	0.011	<0.005	<0.001	0.2	0.001	0.12	7.99	37.0	830	1.89	0.19	2.09	0.14	85.4
154612		12.97	0.017	<0.005	<0.001	0.2	<0.001	0.12	7.97	35.0	820	1.96	0.18	2.01	0.13	87.0
154613		12.75	0.017	<0.005	<0.001	0.4	<0.001	0.13	8.14	27.8	850	2.08	0.28	2.31	0.13	87.2
154614		8.69	0.082	<0.005	<0.001	<0.2	<0.001	0.11	8.10	25.2	820	1.92	0.20	2.13	0.13	83.1
154615		0.06	0.027	0.046	0.224	<0.2	0.001	0.07	3.64	3.7	40	<0.05	0.15	2.39	0.03	45.3
154617		23.09	0.003	<0.005	<0.001	<0.2	<0.001	0.15	7.75	19.7	920	1.77	0.14	2.73	0.11	65.2
154618		10.46	0.003	<0.005	<0.001	<0.2	0.001	0.14	8.10	22.4	920	1.94	0.13	2.33	0.11	67.0
154619		9.60	0.002	<0.005	<0.001	<0.2	<0.001	0.11	7.86	11.9	900	1.90	0.15	2.27	0.14	79.6
154622		6.53	0.001	<0.005	<0.001	0.2	0.001	0.09	7.66	9.5	910	1.73	0.13	2.27	0.11	59.3
154623		10.69	0.025	<0.005	<0.001	0.2	<0.001	0.20	8.15	77.6	840	2.00	0.17	2.86	0.10	93.5
154624		8.22	0.149	<0.005	0.001	5.6	<0.001	7.51	7.35	270	820	1.97	0.18	2.40	0.10	86.1
154625		11.45	0.059	<0.005	<0.001	0.3	<0.001	0.26	7.68	75.0	800	1.92	0.19	1.76	0.12	92.9
154626		20.51	0.065	<0.005	<0.001	0.3	<0.001	0.21	7.91	107.5	820	2.18	0.21	3.06	0.11	82.8
154627		15.72	0.041	<0.005	<0.001	0.2	<0.001	0.21	8.02	73.7	820	1.99	0.19	1.77	0.12	89.8
154628		12.39	0.061	<0.005	<0.001	<0.2	<0.001	0.16	7.35	84.8	760	2.23	0.21	5.19	0.13	67.2
154629		8.91	0.010	<0.005	<0.001	0.2	<0.001	0.10	8.02	21.2	830	2.16	0.22	2.31	0.10	92.0
154630		7.68	0.030	<0.005	<0.001	0.7	<0.001	0.94	8.46	51.8	880	2.10	0.18	2.08	0.10	77.0
154631		12.04	0.058	<0.005	<0.001	1.8	<0.001	1.53	8.22	107.5	810	2.10	0.19	2.13	0.09	87.5
154632		11.32	0.058	<0.005	<0.001	2.2	<0.001	2.06	8.08	114.5	850	2.00	0.16	2.09	0.09	75.5
154633		Not Recvd														
154634		17.83	0.011	<0.005	<0.001	0.4	<0.001	0.31	8.54	32.8	860	2.22	0.46	2.16	0.11	89.4



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo
		ppm 0.1	ppm 1	ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05
154892		14.9	56	8.93	34.2	4.02	23.8	0.10	1.4	0.063	2.37	31.5	127.5	1.76	777	4.71
154893		15.2	52	8.59	33.7	4.02	23.6	0.10	1.6	0.062	2.38	31.4	135.0	1.78	779	6.63
154894		15.1	54	7.82	32.1	3.80	22.3	0.10	1.4	0.056	2.34	28.8	149.0	1.77	769	10.20
154895		15.7	58	8.07	33.0	4.08	23.7	0.10	1.4	0.061	2.45	29.3	137.0	1.77	790	4.94
154896		15.3	52	8.38	32.4	4.02	24.2	0.11	1.6	0.062	2.38	30.7	135.0	1.68	800	5.80
154897		15.5	53	8.43	32.9	3.95	23.2	0.10	1.6	0.058	2.42	26.5	150.5	1.64	802	9.71
154898		15.1	53	8.59	33.3	3.94	23.5	0.10	1.6	0.060	2.46	30.5	158.5	1.67	778	13.70
154899		14.0	48	8.62	31.5	3.85	23.3	0.11	1.7	0.061	2.38	31.7	148.0	1.58	710	17.40
154900		12.6	37	8.08	33.0	3.80	23.6	0.10	1.7	0.063	2.34	26.0	146.5	1.62	700	15.10
154601		12.7	38	8.24	33.0	3.82	23.7	0.11	1.8	0.064	2.33	32.9	145.5	1.69	755	25.9
154602		13.4	39	8.72	33.2	3.92	25.3	0.10	1.8	0.068	2.44	28.2	150.5	1.71	736	19.90
154603		10.3	32	6.28	22.3	3.09	20.8	0.10	1.6	0.049	2.31	29.1	172.0	1.43	671	6.55
154604		10.3	32	6.85	23.4	3.08	20.7	0.11	1.7	0.046	2.25	32.2	157.0	1.43	632	6.24
154605		10.7	32	7.23	24.4	3.12	21.4	0.10	1.8	0.051	2.25	30.1	167.5	1.49	680	7.29
154606		9.8	32	6.56	22.5	3.09	18.95	0.10	1.6	0.046	2.25	28.0	168.0	1.62	653	4.98
154607		15.8	12	2.01	16.0	4.89	21.6	0.09	0.6	0.068	1.38	28.6	30.7	1.66	894	0.92
154608		24.9	13	2.71	14.8	6.81	21.8	0.08	1.0	0.072	1.59	22.1	39.6	2.51	1170	0.71
154609		12.1	12	1.39	13.7	4.69	22.9	0.12	0.5	0.061	1.96	43.7	29.5	1.32	715	1.07
154610		10.0	37	4.74	17.4	2.99	19.45	0.11	1.1	0.043	2.17	36.7	46.6	0.99	479	0.97
154611		9.9	36	4.96	18.5	3.51	20.3	0.12	1.4	0.049	2.33	42.4	34.3	0.92	596	0.84
154612		9.4	36	4.80	17.3	3.44	20.6	0.12	1.3	0.051	2.26	43.7	33.6	0.89	571	0.83
154613		9.3	35	4.87	17.0	3.33	20.5	0.11	1.4	0.050	2.31	43.3	32.8	0.88	577	0.84
154614		9.2	34	4.85	17.3	3.46	20.7	0.14	1.5	0.052	2.24	41.1	32.5	0.90	545	0.95
154615		79.5	1300	0.15	31.3	4.72	4.43	0.06	0.1	0.013	0.05	26.3	1.5	17.90	804	1.19
154617		9.4	41	4.32	15.3	2.86	19.65	0.10	1.7	0.040	2.20	33.3	32.4	1.08	504	0.80
154618		9.4	30	4.29	15.7	3.02	20.5	0.11	1.7	0.045	2.17	33.0	35.8	0.94	537	0.83
154619		9.3	32	3.58	15.8	3.21	20.0	0.12	1.7	0.047	2.10	38.5	32.0	0.91	543	1.03
154622		8.5	28	2.92	12.1	2.75	19.20	0.11	1.7	0.042	2.02	28.7	30.2	0.75	503	0.71
154623		12.4	30	5.45	15.6	4.24	25.6	0.15	1.0	0.058	1.97	42.2	36.9	1.05	713	0.98
154624		10.6	35	6.62	17.1	3.65	20.4	0.13	0.8	0.050	2.13	40.8	40.0	0.81	594	0.88
154625		9.7	41	4.91	17.0	3.52	19.95	0.13	1.0	0.052	2.23	45.8	32.7	0.80	571	0.80
154626		11.5	46	7.02	21.0	3.88	22.3	0.13	1.0	0.059	2.09	41.9	40.7	1.01	622	0.88
154627		10.4	43	5.45	18.5	3.60	20.9	0.13	1.1	0.057	2.31	45.0	35.8	0.86	590	0.80
154628		10.7	34	8.76	20.8	3.72	22.1	0.11	1.1	0.055	1.96	33.3	40.7	1.02	588	0.74
154629		10.2	35	5.50	18.3	3.68	21.1	0.14	1.5	0.054	2.14	49.4	35.9	0.94	527	0.86
154630		9.2	34	4.87	19.7	3.35	20.2	0.13	1.5	0.047	2.12	39.3	32.2	0.77	514	1.31
154631		9.3	37	5.23	18.1	3.28	20.1	0.15	1.4	0.047	2.11	45.0	33.5	0.82	525	0.86
154632		8.4	32	5.99	15.7	2.89	19.70	0.12	1.3	0.041	2.08	37.8	32.1	0.77	494	0.81
154633																
154634		9.1	33	6.24	16.2	3.52	20.5	0.15	1.4	0.048	2.18	44.1	32.4	0.88	569	0.85



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		Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta
		%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05
154892		1.85	12.2	38.4	910	15.4	102.5	0.008	0.71	10.75	12.5	4	2.1	476	0.73
154893		1.83	12.2	36.6	900	15.1	103.5	0.011	0.66	10.10	12.4	6	2.0	491	0.77
154894		1.91	11.8	37.5	870	14.6	95.9	0.007	0.90	9.34	11.9	3	1.9	730	0.77
154895		1.98	12.6	40.3	920	15.6	95.1	0.012	0.83	9.86	12.6	3	2.0	546	0.81
154896		2.02	12.5	35.9	910	15.2	98.0	0.009	0.84	9.18	12.9	2	2.0	526	0.77
154897		1.99	11.8	36.1	890	15.1	91.9	0.004	0.95	9.15	12.3	2	2.0	462	0.73
154898		2.08	12.2	36.2	900	15.7	107.5	0.007	1.32	7.86	12.5	2	2.0	524	0.77
154899		2.09	12.2	32.4	850	14.8	106.0	0.011	1.29	7.11	12.0	2	2.0	409	0.77
154900		2.64	12.2	24.8	940	14.2	91.7	0.013	1.40	4.74	11.6	2	2.1	341	0.75
154601		2.53	12.3	25.6	950	14.5	104.5	0.014	0.85	5.43	12.1	2	2.1	382	0.76
154602		2.63	12.6	26.3	990	15.1	95.0	0.012	1.13	5.47	12.1	2	2.2	452	0.75
154603		2.47	12.2	20.9	820	15.5	82.0	0.005	0.42	4.87	9.2	2	1.7	879	0.77
154604		2.41	11.9	21.2	810	15.6	90.8	0.007	0.78	5.38	9.2	2	1.7	1225	0.77
154605		2.19	12.3	22.1	830	16.9	90.4	0.005	0.66	5.77	9.7	2	1.8	1775	0.77
154606		2.56	10.8	19.7	860	14.3	88.9	0.004	0.40	4.51	8.6	2	1.6	628	0.68
154607		1.59	12.1	7.1	1970	7.7	61.4	<0.002	0.01	1.62	13.8	1	1.7	429	0.63
154608		1.22	8.8	9.4	670	7.3	61.8	<0.002	0.01	2.08	23.3	1	1.5	379	0.56
154609		2.06	17.9	5.5	2470	8.1	83.4	<0.002	<0.01	0.61	9.9	1	2.1	756	0.89
154610		2.50	15.1	25.7	530	13.4	84.9	<0.002	0.08	11.05	9.7	2	1.8	506	0.94
154611		2.21	18.3	21.9	820	15.1	92.5	<0.002	0.01	7.65	10.2	1	2.0	426	1.22
154612		2.23	19.9	21.9	710	14.2	94.0	<0.002	0.01	6.76	10.4	2	2.1	430	1.32
154613		2.34	18.9	20.8	710	14.8	90.2	<0.002	0.01	5.79	10.1	2	2.0	466	1.28
154614		2.28	19.7	20.3	720	14.8	91.2	<0.002	0.01	5.31	10.5	2	2.1	446	1.25
154615		0.26	1.4	1695	30	6.8	1.2	<0.002	0.02	1.24	9.5	1	<0.2	42.1	<0.05
154617		2.05	13.1	31.6	770	15.4	76.2	<0.002	0.01	3.00	8.2	1	1.5	475	0.84
154618		2.11	13.9	18.7	690	16.8	76.9	<0.002	0.01	3.19	8.8	1	1.7	495	0.89
154619		2.32	16.2	20.2	580	16.6	72.8	<0.002	0.01	3.10	9.3	1	1.8	525	0.98
154622		2.37	16.3	17.0	490	15.3	67.4	<0.002	0.01	2.59	7.9	2	1.6	553	1.28
154623		2.03	20.2	17.8	1730	15.2	78.7	<0.002	0.01	10.90	10.5	2	2.2	509	1.36
154624		1.77	17.0	20.4	1040	14.4	94.5	<0.002	0.06	60.4	9.7	1	2.1	379	1.11
154625		2.13	18.8	25.6	720	13.7	94.2	<0.002	0.02	13.25	10.9	1	2.1	375	1.18
154626		1.66	15.5	30.8	1180	13.8	97.0	<0.002	0.10	16.00	11.6	2	2.1	343	0.99
154627		2.10	19.4	27.0	680	14.3	101.0	<0.002	0.02	13.25	11.5	2	2.2	373	1.30
154628		1.34	13.7	22.3	1520	13.6	91.4	<0.002	0.06	12.65	10.1	2	2.0	334	0.90
154629		2.10	18.2	22.0	580	15.1	89.2	<0.002	0.01	6.08	10.3	2	2.1	433	1.22
154630		2.28	16.9	22.0	540	16.8	84.5	<0.002	0.12	11.70	9.5	2	1.9	477	1.09
154631		2.07	16.6	21.5	570	14.8	86.3	<0.002	0.04	17.50	9.9	2	1.9	448	1.08
154632		2.20	15.7	19.3	550	14.5	83.8	<0.002	0.03	19.90	9.1	2	1.7	472	1.04
154633															
154634		2.26	20.4	18.7	670	15.5	88.1	<0.002	0.01	8.06	9.8	2	2.1	468	1.42



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Th	Ti	Ti	U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho
		ppm 0.01	% 0.005	ppm 0.02	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	ppm 0.05	ppm 0.03	ppm 0.03	ppm 0.05	ppm 0.01
154892		9.98	0.361	0.61	2.2	86	8.2	16.7	120	50.6	3.15	1.66	0.99	3.81	0.61
154893		10.15	0.365	0.64	2.3	85	8.0	16.5	121	53.1	3.16	1.67	1.01	3.87	0.60
154894		9.22	0.348	0.60	2.3	85	8.4	15.4	113	47.1	2.96	1.53	0.95	3.55	0.56
154895		9.98	0.382	0.60	2.4	91	8.2	16.2	120	48.0	3.13	1.65	1.03	3.81	0.61
154896		9.77	0.368	0.60	2.2	86	7.6	16.2	121	53.8	3.13	1.59	0.99	3.71	0.59
154897		8.94	0.358	0.58	2.1	85	7.5	15.4	121	55.4	2.90	1.52	0.89	3.43	0.55
154898		10.15	0.371	0.60	2.5	86	7.5	16.0	121	55.6	3.06	1.61	1.00	3.76	0.58
154899		9.98	0.364	0.57	2.3	81	6.4	16.0	118	57.9	3.05	1.53	0.98	3.62	0.57
154900		9.20	0.347	0.57	2.2	77	4.8	15.2	122	60.5	2.91	1.53	0.87	3.39	0.56
154601		11.80	0.346	0.55	2.7	77	4.9	16.7	123	61.3	3.11	1.66	0.99	3.78	0.59
154602		9.72	0.357	0.57	2.7	79	5.5	16.0	127	63.2	3.14	1.64	0.94	3.69	0.60
154603		7.53	0.366	0.47	3.8	69	6.2	15.1	92	55.6	2.78	1.48	0.99	3.37	0.54
154604		9.04	0.353	0.47	3.5	68	5.8	14.6	92	57.9	2.81	1.46	0.99	3.49	0.53
154605		8.70	0.358	0.48	3.6	70	7.3	15.3	95	60.9	2.99	1.53	1.03	3.69	0.56
154606		8.34	0.350	0.47	4.0	71	7.7	14.2	96	53.6	2.64	1.37	0.90	3.27	0.51
154607		5.35	0.630	0.31	2.1	121	2.0	17.8	115	14.1	3.21	1.63	1.44	4.26	0.60
154608		6.92	0.576	0.36	1.9	259	2.2	17.4	108	27.9	3.10	1.68	1.09	3.65	0.61
154609		6.43	0.732	0.39	0.9	95	2.2	19.2	124	10.2	3.94	1.72	2.22	5.78	0.69
154610		9.15	0.425	0.46	1.8	73	5.8	18.1	72	33.8	3.36	1.75	1.26	4.27	0.64
154611		18.50	0.507	0.50	2.3	81	6.8	20.8	81	43.1	3.96	2.05	1.42	4.96	0.75
154612		12.45	0.505	0.50	2.4	80	7.1	20.1	78	39.9	3.91	2.01	1.41	4.99	0.74
154613		14.00	0.515	0.47	2.2	77	6.2	20.4	77	43.0	4.01	2.01	1.36	5.15	0.73
154614		11.90	0.521	0.45	2.3	79	5.6	20.8	76	46.4	3.92	2.00	1.37	5.03	0.75
154615		1.44	0.031	0.03	0.2	43	0.3	1.9	52	2.1	0.49	0.20	0.55	1.23	0.08
154617		7.22	0.414	0.41	1.6	62	1.9	16.0	71	55.7	3.02	1.55	1.11	3.71	0.57
154618		7.72	0.446	0.42	1.7	67	2.3	16.5	75	60.9	3.19	1.60	1.16	4.02	0.59
154619		11.35	0.500	0.38	1.8	76	4.9	18.0	76	55.7	3.51	1.78	1.22	4.56	0.65
154622		6.84	0.424	0.34	1.6	65	2.3	14.9	62	58.4	2.80	1.42	1.07	3.44	0.53
154623		11.75	0.628	0.46	2.4	98	25.8	21.1	110	27.5	4.11	1.96	1.75	5.63	0.75
154624		13.40	0.478	0.61	2.5	90	14.6	18.3	77	24.2	3.56	1.72	1.36	4.71	0.65
154625		15.10	0.513	0.51	2.4	85	17.3	20.6	75	30.9	3.96	1.95	1.38	5.09	0.73
154626		17.80	0.431	0.54	2.8	87	14.1	20.0	90	32.3	3.76	1.91	1.29	4.82	0.70
154627		17.45	0.521	0.56	2.5	85	21.0	20.9	82	33.1	3.98	2.02	1.42	5.11	0.76
154628		10.35	0.360	0.55	3.2	80	16.1	17.5	94	34.5	3.25	1.65	1.12	4.07	0.63
154629		12.60	0.483	0.46	2.3	79	4.8	23.5	74	48.1	4.26	2.18	1.43	5.26	0.81
154630		11.40	0.488	0.42	2.1	80	5.5	20.7	72	47.5	3.88	2.05	1.32	4.67	0.74
154631		17.00	0.482	0.47	2.2	79	4.9	19.2	70	45.3	3.82	1.92	1.35	4.96	0.72
154632		14.05	0.440	0.45	1.9	72	4.9	16.7	66	41.2	3.39	1.68	1.22	4.52	0.63
154633															
154634		15.25	0.510	0.46	2.3	84	5.6	19.3	74	43.9	3.95	1.93	1.42	5.23	0.72



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Nd	Pr	Sm	Tb	Tm	Yb
		ppm 0.1	ppm 0.03	ppm 0.03	ppm 0.01	ppm 0.01	ppm 0.03
154892		25.3	7.15	4.90	0.56	0.23	1.48
154893		25.1	6.89	4.80	0.57	0.23	1.49
154894		23.4	6.32	4.52	0.52	0.21	1.39
154895		24.7	6.93	4.87	0.57	0.23	1.46
154896		24.9	7.04	4.86	0.55	0.22	1.49
154897		22.2	6.02	4.35	0.51	0.22	1.39
154898		24.2	6.67	4.66	0.55	0.23	1.44
154899		24.7	6.84	4.76	0.53	0.22	1.47
154900		22.1	5.97	4.28	0.51	0.21	1.40
154601		25.9	7.35	4.87	0.57	0.23	1.48
154602		23.8	7.00	4.58	0.55	0.23	1.51
154603		23.8	6.69	4.57	0.49	0.20	1.33
154604		25.0	6.95	4.70	0.50	0.20	1.29
154605		24.7	7.02	4.76	0.53	0.21	1.42
154606		22.0	6.06	4.20	0.47	0.19	1.22
154607		30.5	8.40	5.92	0.59	0.22	1.38
154608		21.6	5.50	4.64	0.54	0.23	1.51
154609		40.2	10.50	7.88	0.77	0.22	1.34
154610		29.6	8.72	5.73	0.61	0.24	1.48
154611		36.0	10.30	6.64	0.72	0.28	1.84
154612		35.7	10.55	6.63	0.72	0.27	1.78
154613		35.4	10.30	6.78	0.74	0.27	1.76
154614		34.9	10.15	6.64	0.71	0.28	1.74
154615		14.9	4.37	2.52	0.13	0.03	0.19
154617		27.0	8.01	5.09	0.54	0.21	1.36
154618		28.0	8.01	5.40	0.57	0.23	1.41
154619		32.1	9.44	6.16	0.65	0.24	1.54
154622		24.1	6.98	4.67	0.50	0.20	1.28
154623		43.5	11.90	7.62	0.77	0.27	1.72
154624		35.1	10.30	6.46	0.67	0.24	1.53
154625		38.3	10.95	6.92	0.71	0.28	1.75
154626		33.6	9.92	6.42	0.69	0.26	1.65
154627		38.1	10.70	6.85	0.73	0.28	1.77
154628		28.1	8.12	5.44	0.59	0.23	1.51
154629		37.0	10.85	7.01	0.77	0.30	1.94
154630		32.1	9.34	6.08	0.67	0.31	1.87
154631		36.1	10.60	6.74	0.70	0.28	1.71
154632		31.3	9.13	5.96	0.64	0.24	1.53
154633							
154634		37.2	10.80	6.93	0.73	0.28	1.74



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Ag-AA45 Ag ppm 0.2	Rh-MS25 Rh ppm 0.001	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01
154635		18.63	0.031	<0.005	<0.001	0.8	<0.001	0.62	7.92	52.6	900	1.98	0.19	3.70	0.10	79.3
154636		15.25	0.033	<0.005	<0.001	<0.2	<0.001	0.10	8.07	37.8	740	1.87	0.20	2.05	0.11	89.4
154637		14.58	0.015	<0.005	<0.001	0.2	<0.001	0.11	7.63	40.4	740	1.79	0.18	2.58	0.13	103.5
154638		16.90	0.015	<0.005	<0.001	<0.2	<0.001	0.09	7.57	41.2	720	1.68	0.18	2.11	0.12	104.5
154639		18.29	0.012	<0.005	<0.001	<0.2	<0.001	0.09	8.00	34.5	780	1.81	0.18	2.10	0.13	88.1
154640		8.86	0.012	<0.005	<0.001	0.2	<0.001	0.12	8.30	26.9	790	1.92	0.17	2.68	0.11	81.7
154641		16.46	0.013	<0.005	<0.001	0.2	<0.001	0.08	7.81	27.9	750	1.81	0.16	2.46	0.12	84.2
154642		14.18	0.015	<0.005	<0.001	0.2	<0.001	0.09	8.19	29.5	770	1.91	0.17	2.08	0.10	86.2
154643		20.65	0.011	<0.005	<0.001	0.2	<0.001	0.09	7.99	26.7	760	1.90	0.17	2.51	0.13	84.1
154644		19.20	0.013	<0.005	<0.001	<0.2	<0.001	0.09	8.09	30.0	740	1.94	0.18	2.00	0.09	82.3
154645		0.06	0.020	0.048	0.234	<0.2	0.002	0.04	3.74	3.7	40	0.07	0.17	2.40	0.02	43.8
154646		18.04	0.026	<0.005	0.001	<0.2	<0.001	0.16	7.88	40.7	660	1.87	0.20	2.12	0.12	85.2
154647		11.00	0.089	<0.005	0.004	0.2	<0.001	0.32	7.35	105.5	800	2.06	0.19	5.82	0.12	55.0
154648		15.42	0.044	<0.005	<0.001	0.2	<0.001	0.07	7.82	49.5	920	1.98	0.15	4.04	0.11	87.1
154649		23.49	0.143	<0.005	<0.001	<0.2	0.001	0.15	8.06	166.0	1330	2.09	0.06	3.07	0.07	129.0
154650		11.77	0.160	<0.005	<0.001	<0.2	<0.001	0.11	8.13	42.8	800	2.02	0.18	2.74	0.12	90.5
154651		11.41	0.054	<0.005	<0.001	0.5	<0.001	0.58	8.03	72.9	740	2.18	0.22	2.19	0.09	76.3
154652		9.51	0.187	<0.005	<0.001	0.5	<0.001	0.36	8.18	69.9	760	2.07	0.21	1.72	0.11	86.9
154653		10.83	0.007	<0.005	<0.001	0.3	<0.001	0.19	8.67	16.1	830	2.20	0.18	2.04	0.08	64.6
154654		2.14	0.041	<0.005	<0.001	0.4	<0.001	0.29	8.07	54.6	610	2.35	0.22	3.70	0.13	58.3
154655		14.62	0.022	<0.005	0.001	0.2	<0.001	0.13	6.75	35.7	740	1.61	0.15	4.78	0.13	77.1
154656		21.44	0.032	<0.005	<0.001	<0.2	0.001	0.07	6.66	64.1	750	1.52	0.14	4.98	0.10	62.0
154657		18.71	0.030	<0.005	0.001	<0.2	<0.001	0.08	7.42	35.6	800	1.78	0.14	2.94	0.06	69.9
154658		11.11	0.051	<0.005	0.001	0.2	<0.001	0.19	6.42	43.1	700	1.39	0.12	7.88	0.08	54.6
154659		20.34	0.012	<0.005	<0.001	<0.2	<0.001	0.20	5.87	61.2	580	1.20	0.13	10.35	0.10	50.7
154660		11.96	0.021	<0.005	<0.001	0.3	<0.001	0.13	7.23	34.1	890	1.41	0.14	4.54	0.09	65.0
154661		10.42	0.019	<0.005	0.001	<0.2	<0.001	0.13	7.00	33.7	870	1.57	0.12	4.47	0.08	58.7
154662		0.06	0.091	<0.005	<0.001	<0.2	<0.001	0.09	4.17	5.8	390	2.10	0.20	4.25	0.09	16.85
154663		15.96	0.031	<0.005	<0.001	0.2	<0.001	0.41	7.17	46.8	760	1.61	0.13	4.75	0.11	68.7
154664		11.61	0.032	<0.005	<0.001	0.2	<0.001	0.14	8.25	39.7	780	2.16	0.20	3.08	0.10	63.7
154665		11.81	0.022	0.008	0.001	<0.2	<0.001	0.12	7.60	36.2	750	2.19	0.17	2.96	0.12	52.5
154666		12.65	0.023	<0.005	0.001	<0.2	<0.001	0.08	7.72	29.0	710	2.16	0.18	3.94	0.11	56.2
154667		17.48	0.025	<0.005	<0.001	<0.2	<0.001	0.05	7.63	40.8	670	2.11	0.20	4.22	0.11	57.7
154668		21.89	0.038	<0.005	0.001	0.2	<0.001	0.14	7.73	46.0	670	2.22	0.21	3.79	0.12	59.3
154669		18.81	0.028	0.005	<0.001	<0.2	<0.001	0.08	7.71	37.8	690	2.15	0.21	3.70	0.12	54.0
154670		18.65	0.045	<0.005	0.001	0.5	<0.001	0.47	7.70	60.8	660	2.01	0.20	4.25	0.12	57.6
154671		22.62	0.054	<0.005	0.001	0.9	<0.001	0.82	6.12	57.0	620	1.34	0.11	5.33	0.08	49.0
154672		24.87	0.036	<0.005	<0.001	0.7	<0.001	0.59	6.57	47.5	750	1.48	0.13	5.47	0.11	60.8
154673		18.79	0.051	0.006	<0.001	1.0	<0.001	1.06	7.08	66.8	690	1.62	0.15	4.24	0.12	63.9
154674		22.17	0.011	<0.005	<0.001	0.3	<0.001	0.20	7.63	13.2	900	1.72	0.10	3.81	0.07	54.3



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		Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo
		ppm 0.1	ppm 1	ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05
154635		9.7	37	4.92	18.1	3.18	19.15	0.14	1.1	0.044	2.10	40.2	39.6	0.87	548	0.76
154636		9.0	41	3.72	18.2	3.60	19.50	0.16	1.0	0.051	1.93	44.2	30.8	0.82	561	0.89
154637		9.5	46	3.61	19.0	3.70	18.60	0.15	1.0	0.055	1.91	53.3	28.7	0.92	618	0.93
154638		8.3	41	3.09	16.3	3.82	17.80	0.16	0.9	0.052	1.83	51.8	24.4	0.71	585	0.90
154639		8.7	38	3.38	18.0	3.55	19.25	0.14	0.9	0.054	1.98	42.4	28.1	0.81	584	0.88
154640		9.0	39	3.56	19.7	3.28	20.0	0.13	1.0	0.052	2.08	41.2	32.3	0.83	549	0.87
154641		8.1	38	2.79	16.4	3.31	18.05	0.15	0.9	0.053	1.88	39.9	25.7	0.75	555	0.87
154642		8.5	39	3.30	19.7	3.31	19.60	0.14	0.9	0.054	2.00	43.0	29.8	0.78	531	0.90
154643		8.8	38	3.06	17.4	3.30	18.85	0.15	1.0	0.051	1.95	39.7	28.2	0.80	607	0.93
154644		8.7	39	3.34	19.1	3.38	20.1	0.14	1.0	0.055	1.94	39.7	30.5	0.72	530	0.88
154645		78.5	1370	0.17	26.5	4.67	4.55	0.09	0.1	0.010	0.05	25.6	1.7	17.80	818	0.43
154646		10.1	57	3.71	20.8	3.92	19.55	0.14	0.9	0.062	1.75	44.4	33.0	0.99	561	0.90
154647		15.6	18	11.65	40.3	4.19	25.2	0.11	0.8	0.053	1.35	28.7	51.1	1.47	681	11.95
154648		10.5	29	5.14	19.4	3.90	21.4	0.14	1.0	0.058	1.90	43.3	39.8	1.22	597	1.16
154649		7.6	9	4.91	7.6	3.36	30.1	0.18	0.6	0.056	1.93	60.4	31.1	0.85	591	1.34
154650		9.8	35	4.72	18.8	4.00	21.5	0.14	1.1	0.058	2.08	46.3	35.0	1.05	599	0.98
154651		9.4	42	6.19	20.3	3.65	20.9	0.13	1.0	0.052	2.05	39.5	38.1	0.91	535	0.80
154652		9.4	44	5.02	19.6	3.76	20.1	0.13	1.2	0.055	2.17	43.8	36.9	0.87	572	0.89
154653		9.4	35	9.15	17.8	3.28	21.8	0.13	1.6	0.048	2.10	32.6	36.7	0.93	500	0.76
154654		14.0	46	9.13	33.5	3.92	24.9	0.12	1.7	0.063	2.24	27.5	152.5	1.76	751	4.14
154655		9.0	36	3.37	18.3	2.64	16.65	0.14	0.9	0.045	1.76	36.9	79.2	1.86	501	0.72
154656		10.2	37	4.05	19.5	2.58	16.10	0.13	0.8	0.042	1.66	29.4	78.9	2.37	479	0.91
154657		8.9	39	4.01	17.8	2.59	18.10	0.14	0.8	0.041	1.99	33.2	70.3	1.31	448	0.77
154658		7.3	36	3.60	16.5	2.32	15.45	0.11	0.7	0.037	1.65	26.8	60.5	1.20	378	0.73
154659		10.4	55	4.32	17.9	2.52	14.70	0.09	0.7	0.040	1.65	24.7	75.9	1.55	508	1.33
154660		7.3	31	3.77	15.7	2.33	16.60	0.11	1.0	0.041	1.95	32.4	112.5	1.34	504	2.85
154661		7.0	29	3.68	15.7	2.18	16.35	0.10	1.0	0.037	1.92	29.7	126.0	1.34	478	2.82
154662		0.7	7	4.08	4.5	0.53	13.80	0.11	2.5	0.021	3.09	8.7	36.7	0.09	404	4.94
154663		10.6	42	3.55	16.1	2.53	16.80	0.12	0.8	0.041	1.90	33.1	69.1	0.99	486	2.30
154664		12.8	45	7.88	26.6	3.53	23.0	0.13	1.6	0.057	2.22	31.2	124.5	1.31	691	8.86
154665		13.6	41	8.31	29.8	3.42	22.8	0.10	1.7	0.057	2.30	26.0	147.5	1.37	692	31.5
154666		11.6	41	8.23	27.3	3.49	21.7	0.12	1.7	0.058	2.24	30.0	125.5	1.34	566	6.82
154667		14.6	44	8.39	29.4	3.63	21.7	0.12	1.7	0.060	2.35	29.9	159.5	1.52	758	14.55
154668		14.4	52	8.38	32.7	3.84	23.0	0.12	1.6	0.064	2.38	31.1	151.0	1.62	672	6.02
154669		13.6	48	8.90	31.5	3.85	23.4	0.11	1.7	0.063	2.40	27.5	141.0	1.52	660	12.70
154670		14.8	53	7.71	32.1	3.74	21.5	0.12	1.4	0.061	2.31	29.9	140.0	1.72	785	8.78
154671		7.0	34	3.54	16.4	2.07	14.40	0.11	0.7	0.038	1.71	25.9	94.0	1.66	370	0.89
154672		8.9	39	3.72	17.6	2.61	15.65	0.12	0.7	0.046	1.82	30.4	72.5	1.78	487	0.69
154673		8.9	41	4.02	19.6	2.84	16.95	0.13	0.8	0.049	1.95	32.4	60.5	1.59	471	0.71
154674		5.6	24	2.84	9.4	1.93	16.95	0.13	1.1	0.036	2.10	28.3	107.0	0.69	366	0.71



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta
		%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05
154635		1.96	16.1	23.8	790	14.3	87.3	<0.002	0.03	10.95	9.4	1	1.9	425	1.01
154636		2.07	19.4	24.1	760	14.0	80.7	<0.002	0.01	7.74	11.1	2	2.2	392	1.23
154637		2.07	19.8	27.5	1060	13.3	76.4	<0.002	0.02	8.89	11.8	1	2.1	394	1.26
154638		2.24	20.2	23.9	950	13.3	70.5	<0.002	0.01	9.78	10.4	1	2.1	405	1.30
154639		2.29	19.9	23.4	830	13.8	80.0	<0.002	0.01	7.70	10.6	2	2.0	414	1.38
154640		2.20	18.6	23.6	680	13.6	84.0	<0.002	0.01	6.99	10.9	1	2.1	423	1.15
154641		2.28	18.9	22.3	850	12.6	71.3	<0.002	0.01	6.90	10.9	2	2.1	421	1.24
154642		2.27	17.9	23.5	780	13.2	78.9	<0.002	0.01	7.47	11.4	2	2.0	417	1.13
154643		2.28	19.6	22.0	930	13.4	76.6	<0.002	0.01	6.59	10.8	1	2.1	432	1.30
154644		2.18	18.5	23.1	640	13.3	79.5	<0.002	0.01	11.80	11.1	1	2.1	403	1.21
154645		0.26	1.4	1655	10	4.1	1.6	<0.002	0.01	0.79	9.9	1	<0.2	44.7	<0.05
154646		1.86	17.7	38.6	910	13.7	74.7	<0.002	0.01	8.59	11.4	1	2.1	368	1.14
154647		1.22	11.5	10.7	860	7.3	69.8	<0.002	0.03	8.38	16.4	2	1.4	343	0.66
154648		1.70	16.8	17.2	1500	12.9	85.4	<0.002	0.02	8.34	10.5	1	2.0	438	1.05
154649		1.94	14.0	5.7	2470	10.6	82.5	<0.002	0.02	5.28	6.7	2	1.6	416	0.84
154650		1.88	18.7	20.8	1200	14.3	88.8	<0.002	0.02	8.67	10.1	2	2.2	393	1.22
154651		1.68	16.5	24.8	700	14.2	92.7	<0.002	0.02	14.30	10.5	2	2.1	344	1.06
154652		1.80	18.8	24.1	650	15.5	94.6	<0.002	0.02	14.05	11.1	2	2.2	351	1.26
154653		2.16	15.4	20.8	350	14.4	88.7	<0.002	0.01	3.83	10.5	2	1.9	469	1.04
154654		1.85	11.4	30.7	900	14.0	92.0	0.011	1.13	10.60	12.4	3	2.1	454	0.73
154655		1.97	16.2	23.8	760	11.8	69.0	<0.002	0.03	8.45	9.1	2	1.7	938	1.08
154656		2.13	12.8	27.8	840	11.0	69.5	<0.002	0.28	10.60	8.5	2	1.6	2320	0.84
154657		2.26	13.1	23.5	440	11.6	78.9	<0.002	0.04	8.65	9.0	2	1.7	543	0.85
154658		1.95	10.7	21.9	710	11.2	67.3	<0.002	0.27	7.79	8.0	2	1.4	759	0.68
154659		1.90	10.2	34.7	520	9.7	74.2	<0.002	0.13	9.22	8.1	2	1.4	927	0.67
154660		2.64	13.9	17.7	780	13.1	71.5	<0.002	0.38	5.64	7.2	2	1.6	648	0.91
154661		2.65	12.0	16.7	700	12.9	71.8	0.002	0.40	5.33	7.0	2	1.5	639	0.76
154662		2.34	18.8	2.8	90	22.0	94.3	<0.002	0.11	1.25	1.4	1	1.4	239	1.60
154663		2.48	13.4	24.3	690	11.6	73.8	<0.002	0.04	9.16	8.9	1	1.7	557	0.87
154664		2.30	11.9	29.7	780	15.3	97.7	0.011	0.60	6.74	11.2	3	1.9	453	0.77
154665		2.39	11.4	31.7	740	18.5	87.4	0.015	0.61	5.86	11.4	3	1.8	449	0.75
154666		2.16	10.9	27.4	750	15.2	98.2	0.010	1.44	5.06	11.2	2	1.8	431	0.71
154667		2.09	11.2	31.4	820	15.4	102.5	0.019	1.68	5.82	11.7	2	1.9	456	0.75
154668		2.07	11.4	35.9	840	15.0	107.5	0.004	1.25	7.67	12.9	2	2.0	408	0.75
154669		2.11	11.5	32.5	820	15.3	94.9	0.018	1.32	6.43	12.3	2	2.0	389	0.76
154670		1.83	11.1	37.3	840	14.8	101.5	0.008	1.18	9.78	12.0	5	1.9	544	0.73
154671		2.12	9.9	20.5	490	11.0	66.6	<0.002	0.16	12.45	7.4	1	1.3	809	0.67
154672		2.00	12.9	26.7	640	10.4	72.6	<0.002	0.04	9.07	9.0	2	1.6	789	0.86
154673		1.90	15.0	25.8	710	11.9	76.0	<0.002	0.03	14.95	9.6	2	1.7	689	0.99
154674		2.76	12.1	12.0	520	12.5	69.5	<0.002	0.02	3.48	6.7	1	1.3	624	0.79



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Th	Ti	Ti	U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho
		ppm 0.01	% 0.005	ppm 0.02	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	ppm 0.05	ppm 0.03	ppm 0.03	ppm 0.05	ppm 0.01
154635		11.10	0.458	0.47	2.4	80	7.6	19.1	72	35.6	3.72	1.92	1.31	4.79	0.69
154636		12.70	0.543	0.43	2.3	92	8.4	21.0	71	28.9	4.19	2.08	1.55	5.39	0.77
154637		28.6	0.594	0.40	3.0	96	8.0	23.4	73	29.2	4.70	2.34	1.62	6.01	0.88
154638		24.1	0.609	0.38	3.0	101	10.0	22.9	62	23.7	4.66	2.29	1.69	6.07	0.86
154639		10.55	0.528	0.40	2.1	91	8.0	21.1	68	25.9	4.16	2.11	1.58	5.28	0.78
154640		16.20	0.529	0.46	2.7	85	5.6	20.8	70	30.7	4.16	2.06	1.53	5.17	0.77
154641		11.50	0.559	0.37	2.4	89	6.4	21.4	64	24.1	4.30	2.15	1.62	5.37	0.80
154642		11.25	0.527	0.42	2.1	85	7.1	21.2	68	26.0	4.24	2.14	1.55	5.32	0.78
154643		11.15	0.561	0.40	2.6	87	8.0	21.7	69	26.5	4.40	2.27	1.63	5.51	0.83
154644		13.45	0.545	0.42	2.5	88	6.9	21.3	67	28.2	4.21	2.16	1.62	5.30	0.79
154645		1.42	0.033	0.02	0.3	45	0.3	1.9	47	2.4	0.48	0.21	0.56	1.19	0.08
154646		11.20	0.545	0.40	2.1	99	9.2	22.1	77	26.4	4.30	2.17	1.56	5.33	0.81
154647		5.79	0.458	0.74	2.4	144	15.6	18.3	74	18.8	3.38	1.83	1.20	4.08	0.66
154648		11.20	0.522	0.48	2.6	97	11.6	19.3	98	26.7	3.75	1.90	1.46	4.98	0.69
154649		7.08	0.464	0.44	2.0	92	6.3	18.4	93	10.7	3.73	1.56	2.01	6.17	0.63
154650		10.55	0.536	0.48	2.2	92	7.6	20.3	93	30.4	3.91	1.98	1.53	5.08	0.74
154651		12.95	0.459	0.54	2.2	86	23.9	18.0	84	31.1	3.54	1.75	1.24	4.57	0.66
154652		16.20	0.539	0.55	2.5	91	35.6	19.1	81	34.5	3.89	1.99	1.31	4.86	0.73
154653		9.62	0.441	0.43	1.9	72	3.5	16.2	78	51.4	3.21	1.69	1.17	3.91	0.61
154654		9.29	0.336	0.58	2.2	81	6.9	14.9	121	58.0	2.85	1.50	0.90	3.45	0.53
154655		9.78	0.414	0.38	2.7	72	5.4	17.4	62	26.3	3.38	1.73	1.24	4.30	0.63
154656		8.37	0.371	0.38	2.4	75	7.1	15.2	63	26.3	2.97	1.53	1.06	3.77	0.56
154657		8.94	0.389	0.43	2.5	69	7.6	15.0	66	27.8	2.91	1.50	1.07	3.71	0.54
154658		6.69	0.320	0.39	3.2	62	5.6	13.2	60	24.9	2.44	1.28	0.88	3.03	0.49
154659		6.79	0.313	0.42	3.8	68	8.3	12.2	65	27.1	2.33	1.19	0.81	2.91	0.45
154660		8.03	0.385	0.39	3.9	62	5.1	14.9	60	33.2	2.92	1.48	1.09	3.68	0.55
154661		7.14	0.350	0.39	3.9	59	5.1	13.7	58	31.1	2.64	1.36	0.99	3.35	0.49
154662		5.78	0.048	0.62	2.8	8	1.6	7.8	36	61.9	1.49	0.94	0.21	1.34	0.32
154663		8.58	0.400	0.40	3.0	68	6.8	15.1	63	24.1	2.99	1.50	1.09	3.79	0.56
154664		9.62	0.360	0.54	2.3	77	5.8	15.1	102	54.6	2.91	1.53	1.00	3.65	0.56
154665		8.38	0.337	0.51	2.0	74	5.1	13.9	108	59.4	2.66	1.36	0.92	3.18	0.51
154666		9.21	0.341	0.52	2.1	71	4.5	13.9	106	61.2	2.67	1.40	0.93	3.27	0.51
154667		9.87	0.340	0.55	2.4	78	5.9	14.1	113	55.6	2.70	1.42	0.90	3.24	0.51
154668		10.55	0.344	0.58	2.3	83	6.6	14.9	117	52.5	2.86	1.51	0.96	3.35	0.54
154669		9.77	0.348	0.56	2.1	81	5.9	14.3	118	58.3	2.85	1.49	0.91	3.35	0.53
154670		9.80	0.341	0.56	2.2	84	7.7	14.3	111	45.9	2.80	1.44	0.92	3.33	0.53
154671		6.52	0.298	0.37	3.1	53	5.8	11.6	55	19.4	2.23	1.14	0.86	2.83	0.42
154672		7.86	0.369	0.37	2.9	69	6.8	14.8	65	20.1	2.83	1.44	1.04	3.50	0.53
154673		8.85	0.405	0.43	2.1	70	9.3	16.9	68	23.3	3.21	1.66	1.21	4.02	0.61
154674		7.70	0.350	0.35	2.3	56	3.2	13.6	45	38.5	2.65	1.34	1.03	3.20	0.50



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		Nd	Pr	Sm	Tb	Tm	Yb
		ppm 0.1	ppm 0.03	ppm 0.03	ppm 0.01	ppm 0.01	ppm 0.03
154635		33.1	9.68	6.31	0.68	0.27	1.71
154636		38.1	11.00	7.18	0.75	0.30	1.86
154637		45.2	12.20	8.07	0.86	0.33	2.07
154638		45.6	12.60	8.14	0.85	0.33	1.98
154639		39.2	10.70	7.19	0.75	0.30	1.83
154640		35.9	10.35	6.90	0.74	0.30	1.84
154641		38.3	10.50	7.25	0.77	0.31	1.89
154642		39.0	10.85	7.13	0.74	0.30	1.85
154643		38.4	10.65	7.25	0.79	0.33	1.99
154644		38.6	10.45	7.07	0.75	0.31	1.91
154645		14.9	4.24	2.46	0.12	0.03	0.18
154646		38.7	10.90	7.26	0.76	0.31	1.89
154647		25.4	6.95	5.11	0.59	0.26	1.65
154648		38.6	10.75	6.96	0.70	0.27	1.69
154649		57.1	15.10	9.50	0.77	0.21	1.29
154650		40.0	11.10	7.27	0.71	0.29	1.82
154651		32.8	9.49	6.27	0.64	0.26	1.59
154652		38.1	10.55	6.73	0.70	0.29	1.80
154653		27.7	7.90	5.29	0.56	0.25	1.55
154654		23.8	6.61	4.64	0.51	0.22	1.36
154655		32.1	9.12	6.06	0.61	0.24	1.51
154656		26.2	6.96	5.06	0.54	0.21	1.37
154657		27.3	7.84	5.18	0.52	0.21	1.34
154658		21.8	5.79	4.20	0.44	0.19	1.19
154659		21.3	5.63	4.13	0.43	0.17	1.06
154660		27.5	7.79	5.21	0.52	0.22	1.36
154661		25.2	7.01	4.73	0.48	0.19	1.20
154662		7.2	1.96	1.60	0.23	0.15	1.06
154663		27.4	7.89	5.29	0.54	0.21	1.36
154664		26.0	7.45	5.05	0.52	0.22	1.38
154665		22.9	6.22	4.34	0.47	0.20	1.31
154666		24.1	6.52	4.30	0.48	0.21	1.32
154667		24.0	6.53	4.38	0.48	0.21	1.32
154668		25.0	6.89	4.64	0.50	0.22	1.40
154669		23.5	6.72	4.42	0.49	0.22	1.36
154670		24.2	6.53	4.49	0.49	0.21	1.36
154671		21.6	5.80	3.95	0.41	0.17	1.06
154672		26.6	7.58	4.92	0.50	0.22	1.32
154673		30.0	8.56	5.56	0.58	0.24	1.48
154674		24.3	6.52	4.48	0.47	0.19	1.22



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Sample Description	Method Analyte Units LOD	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	Ag-AA45	Rh-MS25	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Recvd Wt. kg 0.02	Au ppm 0.001	Pt ppm 0.005	Pd ppm 0.001	Ag ppm 0.2	Rh ppm 0.001	Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.02	Ce ppm 0.01
154675		0.06	0.096	0.005	<0.001	<0.2	<0.001	0.07	4.50	5.7	380	2.07	0.18	4.14	0.09	19.60
154676		20.05	0.006	<0.005	<0.001	<0.2	<0.001	0.18	7.69	14.0	900	1.80	0.11	2.59	0.09	61.9
154677		20.37	0.011	<0.005	<0.001	0.2	<0.001	0.12	7.43	17.5	820	1.83	0.14	4.48	0.11	66.8
154678		21.35	0.029	<0.005	0.001	<0.2	0.001	0.06	7.83	46.9	680	1.98	0.20	5.03	0.10	59.3
154679		19.62	0.065	<0.005	<0.001	3.0	<0.001	3.21	7.62	93.1	800	1.75	0.14	2.21	0.06	64.2
154901		15.42	0.016	<0.005	<0.001	0.2	<0.001	0.10	8.06	51.4	840	1.94	0.19	2.19	0.12	94.7



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
		ppm 0.1	ppm 1	ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5
154675		0.7	8	4.13	4.7	0.55	13.30	0.10	2.4	0.022	3.22	10.8	38.4	0.10	400
154676		6.6	24	3.50	10.9	2.17	17.65	0.12	1.3	0.038	2.15	31.7	110.0	0.68	435
154677		8.9	27	4.19	15.7	2.65	18.25	0.13	1.3	0.044	2.13	34.9	164.0	1.06	502
154678		13.1	45	8.40	28.6	3.65	21.9	0.13	1.6	0.057	2.33	31.4	153.5	1.56	678
154679		8.3	47	5.18	14.3	2.45	18.30	0.13	1.0	0.044	2.18	33.5	75.6	0.83	400
154901		9.6	36	4.24	17.2	3.84	19.80	0.15	1.0	0.052	2.22	47.6	31.2	0.80	572



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta
		%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05
154675		2.40	18.0	2.8	80	21.3	100.5	<0.002	0.11	1.26	1.6	1	1.3	234	1.54
154676		2.71	13.0	14.3	500	13.6	74.3	<0.002	0.01	3.76	7.3	2	1.5	552	0.89
154677		2.27	12.6	20.2	760	13.3	71.0	<0.002	0.02	4.35	8.4	2	1.6	667	0.84
154678		2.05	11.4	30.4	820	15.7	105.0	0.007	2.09	6.43	11.4	2	1.9	714	0.74
154679		2.48	13.0	21.7	250	13.2	88.8	<0.002	0.08	24.5	8.9	2	1.7	468	0.88
154901		2.29	21.0	22.5	940	15.8	89.8	<0.002	0.01	10.45	9.9	2	2.2	418	1.43



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Th	Ti	Tl	U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho
		ppm 0.01	% 0.005	ppm 0.02	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	ppm 0.05	ppm 0.03	ppm 0.03	ppm 0.05	ppm 0.01
154675		6.57	0.048	0.60	2.8	8	1.5	8.5	37	59.7	1.50	0.95	0.24	1.39	0.32
154676		8.18	0.356	0.37	2.0	58	3.6	14.5	53	40.5	2.80	1.42	1.13	3.56	0.54
154677		10.70	0.368	0.38	1.9	62	3.8	14.7	67	41.3	2.88	1.42	1.09	3.69	0.54
154678		9.97	0.347	0.55	2.9	79	6.3	14.6	110	55.0	2.84	1.45	0.96	3.45	0.54
154679		8.53	0.376	0.49	2.8	71	6.6	14.0	61	31.3	2.78	1.36	1.07	3.52	0.51
154901		12.45	0.546	0.47	2.5	92	16.5	20.7	74	27.4	4.08	1.99	1.62	5.26	0.75



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Nd	Pr	Sm	Tb	Tm	Yb
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	0.03	0.01	0.01	0.03
154675		8.5	2.35	1.74	0.24	0.16	1.09
154676		27.0	7.79	4.95	0.50	0.21	1.34
154677		28.7	8.28	5.17	0.52	0.20	1.33
154678		25.1	6.81	4.55	0.50	0.21	1.36
154679		28.1	8.00	5.09	0.50	0.19	1.25
154901		44.3	12.10	7.52	0.75	0.29	1.80



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CERTIFICATE COMMENTS

	ANALYTICAL COMMENTS
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Applies to Method:	REEs may not be totally soluble in this method. ME-MS61r
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	LABORATORY ADDRESSES
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Applies to Method:	Processed at ALS Reno located at 4977 Energy Way, Reno, NV, USA.		
	BAG-01	DRY-22	LOG-22
	SCR-41	SND-ALS	WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Ag-AA45	ME-MS61r	PGM-ICP23
			Rh-MS25