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Finalized Date: 29-MAY-2012
Account: WEDES

QC CERTIFICATE AS12108381

Project: LIMBLA

P.O. No.: LI120515

This report is for 78 Rock samples submitted to our lab in Alice Springs, NT, Australia on 16-MAY-2012.

The following have access to data associated with this certificate:

ANDY BENNETT
GAVIN OTTO

GRAHAM BUBNER

CHRIS GAUGHAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-MS61r	48 element four acid ICP-MS + REEs	

To: WESTERN DESERT RESOURCES
ATTN: CHRIS GAUGHAN
LEVEL 1, 26 GREENHILL ROAD
WAYVILLE SA 5034

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:

Wayne Abbott, Operations Manager, Western Australia



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QC CERTIFICATE OF ANALYSIS AS12108381

Method Analyte Units LOR	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	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05
Sample Description															
STANDARDS															
GBM908-10	3.17	7.63	63.2	1120	1.48	1.40	3.82	1.74	110.5	29.1	138	3.55	3760	5.71	22.3
Target Range - Lower Bound															
Upper Bound															
GBM999-5	60.2	4.78	4.1	180	1.24	0.58	0.11	0.22	28.4	3.4	7	0.79	487	3.07	16.05
GBM999-5	58.2	4.66	3.7	180	1.15	0.56	0.11	0.21	26.3	3.5	6	0.77	481	3.00	16.70
GBM999-5	56.3	4.79	3.4	180	1.31	0.57	0.10	0.19	27.0	3.1	5	0.79	473	2.99	17.15
GBM999-5	56.9	4.68	3.1	180	1.20	0.58	0.10	0.19	26.8	3.1	6	0.73	468	2.96	15.65
Target Range - Lower Bound	53.5	4.26	3.0	140	1.12	0.50	0.08	0.16	23.6	2.9	4	0.68	429	2.67	14.70
Upper Bound	65.4	5.22	4.2	220	1.48	0.64	0.13	0.26	28.9	3.7	8	0.96	525	3.29	18.10
GEOMS-03	0.72	5.06	639	2470	1.62	0.38	0.40	0.34	49.7	12.9	120	10.80	140.5	4.14	14.40
GEOMS-03	0.72	5.21	624	2590	1.44	0.40	0.41	0.34	54.8	12.1	120	10.55	141.5	4.30	14.10
GEOMS-03	0.68	5.27	602	2490	1.57	0.39	0.40	0.34	52.4	11.1	121	10.35	137.5	4.15	14.05
GEOMS-03	0.68	5.03	623	2480	1.44	0.37	0.38	0.31	48.2	12.1	116	9.75	131.5	4.11	11.25
Target Range - Lower Bound	0.67	4.61	570	2060	1.34	0.31	0.33	0.30	47.0	10.7	105	9.04	120.5	3.64	12.00
Upper Bound	0.85	5.65	697	2810	1.74	0.41	0.43	0.42	57.4	13.3	131	11.15	147.5	4.48	14.75
MRGeo08	4.65	7.47	36.5	1040	3.41	0.70	2.65	2.36	65.7	22.5	91	13.30	632	3.85	20.6
MRGeo08	4.42	7.86	36.7	1100	3.25	0.72	2.71	2.43	81.5	21.1	92	13.10	648	4.06	20.6
MRGeo08	4.21	8.01	35.0	1080	3.31	0.70	2.65	2.33	84.5	21.4	88	13.15	639	3.97	20.7
MRGeo08	4.29	7.74	34.6	1060	3.37	0.69	2.64	2.42	66.1	19.1	94	12.75	634	3.91	21.4
MRGeo08	4.27	8.13	35.1	1080	3.53	0.71	2.71	2.48	76.1	19.5	91	13.40	639	4.00	21.4
MRGeo08	4.48	7.84	30.8	1100	3.13	0.67	2.61	2.16	63.2	19.9	90	11.40	636	3.96	19.15
MRGeo08	4.78	7.71	34.8	1090	3.49	0.74	2.56	2.48	75.6	22.7	89	13.25	635	3.91	20.3
Target Range - Lower Bound	4.16	7.00	29.7	920	2.80	0.63	2.35	2.01	72.9	18.4	82	11.00	568	3.61	17.50
Upper Bound	5.10	8.57	36.7	1270	3.54	0.79	2.90	2.50	89.1	22.8	102	13.60	694	4.43	21.5
OxG84															
OxG84															
OxG84															
Target Range - Lower Bound															
Upper Bound															
ST-371															
Target Range - Lower Bound															
Upper Bound															



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QC CERTIFICATE OF ANALYSIS AS12108381

Method Analyte Units LOR	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1
Sample Description															
	STANDARDS														
GBM908-10	0.28	3.4	0.080	2.20	58.1	11.4	1.84	815	74.8	2.25	11.0	2240	1000	2080	180.5
Target Range - Lower Bound															
Upper Bound															
GBM999-5	0.09	0.8	0.030	3.10	15.4	3.3	0.05	72	4.39	0.99	6.0	5.0	60	576	430
GBM999-5	0.06	0.8	0.029	3.65	15.4	3.4	0.04	72	4.26	0.96	6.6	4.1	60	545	510
GBM999-5	0.11	0.8	0.033	3.47	17.2	3.3	0.04	70	4.32	0.96	5.7	4.4	60	541	490
GBM999-5	0.17	0.8	0.031	3.58	15.3	3.2	0.03	67	4.42	0.96	7.3	4.0	50	562	490
Target Range - Lower Bound	<0.05	0.6	0.019	3.10	11.8	2.7	0.02	53	3.77	0.83	5.3	3.8	30	487	433
Upper Bound	0.24	1.0	0.042	3.81	15.6	3.9	0.06	79	4.71	1.03	6.7	5.0	70	597	529
GEOMS-03	0.12	1.2	0.052	1.18	28.9	41.7	0.52	544	3.33	0.08	15.3	58.6	1190	7.8	62.5
GEOMS-03	0.11	1.4	0.051	1.15	28.7	44.5	0.52	541	3.45	0.09	14.4	55.7	1120	7.5	65.4
GEOMS-03	0.13	1.4	0.052	1.13	29.3	41.5	0.52	551	3.52	0.08	15.6	56.2	1120	8.1	63.0
GEOMS-03	0.17	1.7	0.043	1.09	28.0	41.1	0.48	514	3.35	0.08	14.5	52.9	1050	5.6	67.3
Target Range - Lower Bound	0.06	1.1	0.032	1.03	25.6	37.6	0.48	483	3.05	0.06	13.1	48.1	970	5.5	55.7
Upper Bound	0.28	1.7	0.056	1.29	32.4	46.4	0.60	601	3.83	0.11	16.3	59.3	1210	8.2	68.3
MRGeo08	0.21	3.3	0.191	3.08	31.3	32.5	1.36	569	16.65	2.01	21.7	686	1140	1020	168.0
MRGeo08	0.22	3.3	0.197	3.18	37.3	34.8	1.38	581	16.55	2.04	20.0	687	1090	1080	205
MRGeo08	0.25	3.2	0.186	3.17	40.4	35.2	1.37	563	15.95	1.96	19.6	684	1060	1050	225
MRGeo08	0.21	3.5	0.198	3.16	30.8	32.8	1.35	567	15.75	2.02	21.9	689	1090	1060	161.0
MRGeo08	0.22	3.5	0.203	3.21	36.5	34.3	1.40	577	16.05	2.04	21.8	698	1110	1070	189.5
MRGeo08	0.21	3.1	0.176	3.12	32.2	30.7	1.30	559	14.40	2.00	19.6	683	1030	1080	191.0
MRGeo08	0.23	2.8	0.182	3.12	37.7	37.9	1.28	549	16.75	1.96	22.4	675	1010	1070	193.5
Target Range - Lower Bound	<0.05	2.8	0.161	2.79	36.3	30.4	1.24	506	13.65	1.76	18.3	617	910	965	187.0
Upper Bound	0.27	3.6	0.207	3.43	45.5	37.6	1.54	630	16.75	2.18	22.5	755	1140	1180	229
OxG84															
OxG84															
OxG84															
Target Range - Lower Bound															
Upper Bound															
ST-371															
Target Range - Lower Bound															
Upper Bound															



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QC CERTIFICATE OF ANALYSIS AS12108381

Method Analyte Units LOR	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS61r Te ppm 0.05	ME-MS61r Th ppm 0.2	ME-MS61r Ti % 0.005	ME-MS61r Tl ppm 0.02	ME-MS61r U ppm 0.1	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1
Sample Description															
STANDARDS															
GBM908-10	0.002	0.39	1.67	20.0	2	3.2	295	0.79	0.09	20.9	0.679	1.23	2.2	147	3.3
Target Range - Lower Bound															
Upper Bound															
GBM999-5	0.007	0.32	6.23	2.0	3	1.8	17.8	0.34	0.35	5.7	0.020	2.23	2.3	7	2.8
GBM999-5	0.006	0.30	5.96	1.7	2	1.7	18.0	0.35	0.30	5.8	0.019	2.26	2.1	7	2.6
GBM999-5	0.006	0.31	5.86	1.8	3	1.8	19.2	0.31	0.30	5.7	0.020	2.20	2.0	7	2.6
GBM999-5	0.008	0.30	5.31	1.7	2	1.6	15.8	0.32	0.29	5.3	0.020	2.04	2.2	6	2.5
Target Range - Lower Bound	<0.002	0.26	4.78	1.7	<1	1.2	14.5	0.22	0.18	4.4	0.009	1.75	1.8	5	2.1
Upper Bound	0.009	0.34	6.58	2.3	4	2.2	18.2	0.46	0.40	5.8	0.031	2.41	2.4	9	3.0
GEOMS-03	0.003	0.04	21.0	14.5	4	2.8	174.5	1.08	0.12	7.0	0.469	1.28	3.9	116	23.7
GEOMS-03	0.003	0.04	20.4	13.6	4	2.7	171.5	1.06	0.12	6.5	0.467	1.38	3.8	117	24.6
GEOMS-03	0.003	0.04	19.35	13.5	4	2.7	175.5	1.08	0.13	7.6	0.463	1.38	3.8	114	23.6
GEOMS-03	0.004	0.03	17.45	13.8	3	2.5	166.5	1.02	0.15	6.0	0.458	1.07	3.4	112	24.3
Target Range - Lower Bound	<0.002	0.02	15.85	12.4	<1	2.0	157.5	0.80	<0.05	6.2	0.409	0.99	3.1	104	18.1
Upper Bound	0.006	0.06	21.5	15.4	5	3.0	192.5	1.10	0.24	8.0	0.511	1.39	4.0	130	24.7
MRGeo08	0.010	0.33	5.38	13.3	3	4.6	317	1.73	<0.05	19.2	0.498	1.10	6.0	113	5.2
MRGeo08	0.009	0.32	5.26	13.8	3	4.5	314	1.66	<0.05	20.9	0.497	1.15	6.3	113	5.1
MRGeo08	0.010	0.31	5.04	13.5	3	4.3	308	1.64	<0.05	21.0	0.492	1.13	5.9	112	5.2
MRGeo08	0.010	0.33	5.00	12.7	3	4.5	313	1.76	<0.05	19.8	0.499	1.13	5.8	113	5.2
MRGeo08	0.010	0.34	5.14	13.1	3	4.5	321	1.72	<0.05	22.4	0.504	1.14	6.1	112	5.3
MRGeo08	0.009	0.31	4.33	12.1	2	3.8	306	1.56	0.06	21.1	0.493	0.96	4.9	111	4.8
MRGeo08	0.010	0.31	4.74	13.4	2	4.3	302	1.56	0.06	21.6	0.494	0.98	5.2	110	5.1
Target Range - Lower Bound	0.006	0.27	4.08	11.0	<1	3.5	272	1.48	<0.05	19.2	0.454	0.86	5.6	99	4.3
Upper Bound	0.016	0.35	5.64	13.6	4	4.7	332	1.92	0.21	23.9	0.566	1.22	7.0	123	6.1
OxG84															
OxG84															
OxG84															
Target Range - Lower Bound															
Upper Bound															
ST-371															
Target Range - Lower Bound															
Upper Bound															



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Method Analyte Units LOR	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
Sample Description															
STANDARDS															
GBM908-10	39.0	1090	141.5	6.57	4.08	1.86	7.90	1.30	0.52	50.2	12.15	7.52	1.25	0.57	3.41
Target Range - Lower Bound															
Upper Bound															
GBM999-5	12.4	116	22.8	1.58	1.08	0.28	1.61	0.35	0.25	8.3	2.83	1.92	0.30	0.20	1.48
GBM999-5	13.5	119	23.4	1.66	1.16	0.29	1.62	0.36	0.25	8.8	2.67	2.10	0.32	0.20	1.55
GBM999-5	15.5	113	21.3	1.54	1.10	0.30	1.55	0.33	0.23	9.5	3.04	2.02	0.30	0.20	1.57
GBM999-5	12.3	106	19.7	1.68	1.14	0.28	1.74	0.35	0.25	10.1	2.57	2.10	0.27	0.18	1.38
Target Range - Lower Bound	10.3	102	16.4	1.24	1.81	0.18	1.49	0.25	0.17	7.5	2.13	1.60	0.22	0.13	1.13
Upper Bound	12.8	129	23.4	1.80	2.51	0.36	2.13	0.36	0.25	10.3	2.95	2.24	0.32	0.21	1.61
GEOMS-03	23.5	49	37.6	3.83	2.07	1.25	4.41	0.77	0.28	23.5	6.99	4.80	0.76	0.30	1.75
GEOMS-03	24.3	48	45.3	3.83	2.14	1.34	4.39	0.80	0.28	24.8	6.85	5.13	0.75	0.30	1.88
GEOMS-03	23.0	47	46.7	3.87	2.20	1.33	4.48	0.79	0.27	24.8	7.17	4.85	0.79	0.31	1.92
GEOMS-03	23.9	45	64.1	3.88	2.10	1.15	4.31	0.77	0.31	23.9	6.15	4.64	0.64	0.29	1.90
Target Range - Lower Bound	19.8	40	44.0	3.25	1.83	1.03	4.23	0.66	0.24	22.1	5.74	4.31	0.64	0.25	1.56
Upper Bound	24.4	54	60.8	4.51	2.55	1.47	5.83	0.92	0.34	30.1	7.84	5.91	0.88	0.36	2.18
MRGeo08	24.3	793	109.0	4.87	2.83	1.46	5.20	1.02	0.40	27.1	8.25	5.79	0.91	0.43	2.47
MRGeo08	26.5	808	105.5	4.75	2.79	1.51	5.21	0.99	0.37	30.6	8.57	6.30	0.96	0.41	2.53
MRGeo08	26.1	798	102.0	4.79	2.78	1.58	5.47	1.01	0.38	31.6	9.11	6.59	0.96	0.40	2.58
MRGeo08	26.5	804	106.0	4.75	2.81	1.46	4.95	0.96	0.37	27.7	7.94	5.66	0.92	0.39	2.57
MRGeo08	27.6	807	107.5	4.94	2.78	1.59	5.23	1.01	0.38	31.0	8.85	6.07	0.97	0.41	2.71
MRGeo08	24.4	785	99.4	4.64	2.61	1.36	5.07	0.92	0.38	28.8	7.51	5.66	0.76	0.37	2.36
MRGeo08	27.9	788	109.5	4.47	2.88	1.38	5.09	0.92	0.38	29.8	7.98	5.59	0.81	0.38	2.44
Target Range - Lower Bound	24.3	712	92.2	3.99	2.37	1.20	4.92	0.79	0.32	26.5	7.02	5.24	0.73	0.32	2.13
Upper Bound	29.9	874	126.0	5.51	3.27	1.70	6.78	1.09	0.46	36.1	9.56	7.16	1.01	0.46	2.95
OxG84															
OxG84															
OxG84															
Target Range - Lower Bound															
Upper Bound															
ST-371															
Target Range - Lower Bound															
Upper Bound															



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Sample Description	Method Analyte Units LOR	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001
STANDARDS				
GBM908-10				
Target Range - Lower Bound				
Upper Bound				
GBM999-5				
GBM999-5				
GBM999-5				
GBM999-5				
Target Range - Lower Bound				
Upper Bound				
GEOMS-03				
GEOMS-03				
GEOMS-03				
GEOMS-03				
Target Range - Lower Bound				
Upper Bound				
MRGeo08				
MRGeo08				
MRGeo08				
MRGeo08				
MRGeo08				
MRGeo08				
MRGeo08				
Target Range - Lower Bound				
Upper Bound				
OxG84		0.859	<0.005	<0.001
OxG84		0.900	<0.005	<0.001
OxG84		0.910	<0.005	<0.001
Target Range - Lower Bound		0.866	<0.005	<0.001
Upper Bound		0.978	0.010	0.002
ST-371		0.883	0.478	0.495
Target Range - Lower Bound		0.872	0.470	0.491
Upper Bound		0.986	0.540	0.555



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Sample Description	Method Analyte Units LOR	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	ME-MS61r
		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
STANDARDS																
ST-381																
ST-381																
ST-381																
ST-381																
ST-381																
Target Range - Lower Bound																
Upper Bound																
ST-460																
ST-460																
ST-460																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOR	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	ME-MS61r
		Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
STANDARDS																
ST-381																
ST-381																
ST-381																
ST-381																
ST-381																
Target Range - Lower Bound																
Upper Bound																
ST-460																
ST-460																
ST-460																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK		0.06	<0.1	<0.005	0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	2.1	<10	<0.5	<0.1
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		<0.05	<0.1	<0.005	0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	1.8
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	0.07	<0.01	<0.1	0.4	<10	<0.5	0.1
Target Range - Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOR	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	ME-MS61r	
		Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	
STANDARDS																	
ST-381																	
ST-381																	
ST-381																	
ST-381																	
ST-381																	
Target Range - Lower Bound																	
Upper Bound																	
ST-460																	
ST-460																	
ST-460																	
Target Range - Lower Bound																	
Upper Bound																	
BLANKS																	
BLANK		<0.002	<0.01	<0.05	0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.2	<0.005	<0.02	<0.1	<1	<0.1	
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.2	<0.005	<0.02	<0.1	<1	<0.1	
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.2	<0.005	<0.02	<0.1	<1	<0.1	
BLANK		<0.002	<0.01	<0.05	0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.2	<0.005	<0.02	<0.1	<1	<0.1	
Target Range - Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.2	<0.005	<0.02	<0.1	<1	<0.1	
Upper Bound		0.004	0.02	0.10	0.2	5	0.4	0.4	0.10	0.10	0.4	0.010	0.04	0.2	2	0.2	
BLANK																	
BLANK																	
BLANK																	
Target Range - Lower Bound																	
Upper Bound																	
DUPLICATES																	
ORIGINAL																	
DUP																	
Target Range - Lower Bound																	
Upper Bound																	



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Method Analyte Units LOR	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
Sample Description															
ST-381	STANDARDS														
ST-381															
ST-381															
ST-381															
ST-381															
Target Range - Lower Bound															
Upper Bound															
ST-460															
ST-460															
ST-460															
Target Range - Lower Bound															
Upper Bound															
BLANK	BLANKS														
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	DUPLICATES														
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															



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Sample Description	Method Analyte Units LOR	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001
STANDARDS				
ST-381		0.958	0.915	0.689
ST-381		0.804	0.888	0.656
ST-381		0.835	0.947	0.667
ST-381		0.952	0.936	0.669
ST-381		0.909	0.940	0.676
Target Range - Lower Bound		0.850	0.902	0.689
Upper Bound		0.960	1.030	0.779
ST-460		0.046	0.042	0.047
ST-460		0.048	0.045	0.047
ST-460		0.047	0.049	0.047
Target Range - Lower Bound		0.048	0.035	0.041
Upper Bound		0.056	0.055	0.049
BLANKS				
BLANK				
BLANK				
BLANK				
BLANK				
Target Range - Lower Bound				
Upper Bound				
BLANK		<0.001	<0.005	<0.001
BLANK		0.001	<0.005	<0.001
BLANK		<0.001	<0.005	<0.001
Target Range - Lower Bound		<0.001	<0.005	<0.001
Upper Bound		0.002	0.010	0.002
DUPLICATES				
ORIGINAL		0.007	<0.005	0.003
DUP		0.007	<0.005	0.004
Target Range - Lower Bound		0.006	<0.005	0.002
Upper Bound		0.008	0.010	0.005



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Method Analyte Units LOR	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	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05
Sample Description															
DUPLICATES															
LI11079	0.04	5.26	0.8	210	0.91	0.02	0.12	<0.02	96.8	0.9	2	0.70	3.1	1.14	12.80
DUP	<0.02	5.40	1.0	220	1.01	0.02	0.12	<0.02	101.5	1.0	4	0.74	2.6	1.18	14.55
Target Range - Lower Bound	0.02	5.05	0.7	190	0.86	<0.01	0.10	<0.02	94.2	0.8	2	0.63	2.5	1.09	12.95
Upper Bound	0.04	5.61	1.1	240	1.06	0.03	0.14	0.04	104.0	1.1	4	0.81	3.2	1.23	14.40
LI11085															
DUP															
Target Range - Lower Bound															
Upper Bound															
LI11088	<0.01	5.30	1.1	90	0.33	0.20	4.15	0.08	11.30	72.3	1720	0.74	262	9.13	10.90
DUP	0.03	5.35	1.3	90	0.31	0.22	4.11	0.07	10.50	67.3	1760	0.71	262	9.08	10.40
Target Range - Lower Bound	<0.01	5.05	0.9	70	0.25	0.19	3.91	0.05	10.35	66.2	1650	0.64	249	8.64	10.05
Upper Bound	0.03	5.60	1.5	110	0.39	0.23	4.35	0.10	11.45	73.4	1830	0.81	275	9.57	11.25
LI11105															
DUP															
Target Range - Lower Bound															
Upper Bound															
LI11108	0.08	3.60	8	180	0.33	0.11	10.35	0.18	25.4	62.0	1980	0.22	37.0	6.86	10.25
DUP	0.07	3.40	<0.2	170	0.27	0.10	9.78	0.19	24.1	61.2	1930	0.21	36.2	6.61	9.83
Target Range - Lower Bound	0.06	3.32	3.7	150	0.24	0.09	9.55	0.16	23.5	58.4	1855	0.15	34.6	6.39	9.49
Upper Bound	0.09	3.69	4.5	200	0.37	0.12	10.60	0.21	26.0	64.8	2050	0.28	38.6	7.08	10.60
LI11121	0.46	0.31	14.0	260	0.72	15.65	0.12	0.08	17.90	546	4	0.15	4900	40.5	5.26
DUP	0.42	0.30	13.0	250	0.63	14.00	0.12	0.07	16.50	518	4	0.14	4670	38.5	4.92
Target Range - Lower Bound	0.41	0.28	12.6	230	0.59	14.05	0.10	0.05	16.35	505	3	0.09	4550	37.5	4.79
Upper Bound	0.47	0.33	14.4	280	0.76	15.60	0.14	0.10	18.05	559	5	0.20	5020	41.5	5.39
LI11135															
DUP															
Target Range - Lower Bound															
Upper Bound															
LI11140	0.03	9.12	8.0	440	2.37	0.05	3.32	0.05	35.5	10.3	28	0.34	6.0	3.37	16.75
DUP	0.04	9.54	7.2	450	2.22	0.07	3.37	0.04	38.7	10.4	28	0.37	7.0	3.44	16.40
Target Range - Lower Bound	0.02	8.85	7.0	400	2.13	0.05	3.17	<0.02	35.2	9.7	26	0.29	6.0	3.22	15.70
Upper Bound	0.05	9.81	8.2	490	2.46	0.07	3.52	0.07	39.0	11.0	30	0.42	7.0	3.59	17.45



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Method Analyte Units LOR	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1
Sample Description															
	DUPLICATES														
LI11079	0.19	2.9	0.026	3.84	43.3	4.1	0.05	78	0.38	1.27	11.0	2.0	130	13.3	268
DUP	0.22	3.4	0.026	3.97	45.9	4.9	0.05	80	0.40	1.31	11.2	8.2	140	13.8	287
Target Range - Lower Bound	0.14	2.9	0.020	3.70	41.9	4.1	0.04	70	0.32	1.22	10.4	4.6	120	12.4	264
Upper Bound	0.27	3.4	0.032	4.11	47.3	4.9	0.06	88	0.46	1.36	11.8	5.6	150	14.7	291
LI11085															
DUP															
Target Range - Lower Bound															
Upper Bound															
LI11088	0.49	0.3	0.079	0.21	4.7	13.5	9.58	1550	0.16	1.09	0.6	588	450	1.3	10.2
DUP	0.37	0.3	0.072	0.21	4.5	13.0	9.54	1540	0.15	1.08	0.6	587	450	2.7	10.2
Target Range - Lower Bound	0.36	0.2	0.067	0.19	3.9	12.4	9.07	1465	0.10	1.02	0.5	558	420	1.4	9.6
Upper Bound	0.50	0.4	0.084	0.23	5.3	14.1	10.05	1625	0.21	1.15	0.7	617	480	2.6	10.8
LI11105															
DUP															
Target Range - Lower Bound															
Upper Bound															
LI11108	0.19	1.7	0.073	0.12	9.5	6.3	11.80	1390	0.16	0.46	2.2	446	480	14.5	3.6
DUP	0.23	1.6	0.069	0.11	9.1	6.1	11.10	1320	0.27	0.44	2.2	429	440	14.5	3.6
Target Range - Lower Bound	0.15	1.5	0.062	0.10	8.3	5.7	10.85	1280	0.15	0.42	2.0	415	430	13.3	3.3
Upper Bound	0.27	1.8	0.080	0.13	10.3	6.7	12.05	1430	0.28	0.48	2.4	460	490	15.7	3.9
LI11121	2.08	0.1	<0.005	0.06	15.3	0.6	0.10	597	35.3	0.01	0.4	469	900	9.7	3.1
DUP	1.47	0.1	<0.005	0.06	14.3	0.5	0.09	565	34.2	0.01	0.4	447	850	8.2	2.9
Target Range - Lower Bound	1.64	<0.1	<0.005	0.05	13.6	0.3	0.08	547	33.0	<0.01	0.3	435	820	8.0	2.8
Upper Bound	1.91	0.2	0.010	0.07	16.0	0.8	0.11	615	36.5	0.02	0.5	481	930	9.9	3.3
LI11135															
DUP															
Target Range - Lower Bound															
Upper Bound															
LI11140	0.23	0.2	0.023	1.31	15.5	12.4	1.67	787	0.08	3.55	1.2	53.3	920	5.7	19.4
DUP	0.23	0.3	0.022	1.37	17.2	11.4	1.73	794	0.15	3.57	1.3	51.0	930	5.7	20.0
Target Range - Lower Bound	0.17	<0.1	0.016	1.26	15.0	11.1	1.61	746	0.06	3.37	1.1	49.3	870	4.9	18.6
Upper Bound	0.29	0.4	0.029	1.42	17.7	12.7	1.80	835	0.17	3.75	1.4	55.0	980	6.5	20.8



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Sample Description	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1
DUPLICATES															
LI11079	0.002	<0.01	0.06	2.5	1	1.1	26.7	0.48	<0.05	37.0	0.075	0.88	1.4	5	0.3
DUP	0.002	<0.01	0.06	2.8	1	1.1	28.0	0.50	<0.05	39.2	0.078	0.89	1.6	5	0.3
Target Range - Lower Bound	<0.002	<0.01	<0.05	2.4	<1	0.8	25.8	0.42	<0.05	36.0	0.068	0.80	1.3	4	0.2
Upper Bound	0.004	0.02	0.10	2.9	2	1.4	28.9	0.56	0.10	40.2	0.085	0.97	1.7	6	0.4
LI11085															
DUP															
Target Range - Lower Bound															
Upper Bound															
LI11088	0.002	<0.01	0.15	31.1	1	1.2	124.0	0.06	0.06	0.5	0.177	<0.02	0.1	156	0.2
DUP	0.002	<0.01	0.14	29.4	1	1.0	122.0	0.06	0.07	0.5	0.175	<0.02	0.1	155	0.2
Target Range - Lower Bound	<0.002	<0.01	0.08	28.6	<1	0.8	116.5	<0.05	<0.05	0.3	0.162	<0.02	<0.1	147	<0.1
Upper Bound	0.004	0.02	0.21	31.9	2	1.4	129.5	0.10	0.10	0.7	0.190	0.04	0.2	164	0.3
LI11105															
DUP															
Target Range - Lower Bound															
Upper Bound															
LI11108	<0.002	0.04	0.07	59.9	3	1.0	170.0	0.15	0.05	0.7	0.464	0.03	0.2	179	0.7
DUP	<0.002	0.04	0.08	54.7	3	1.0	161.0	0.14	<0.05	0.7	0.451	0.03	0.2	174	0.7
Target Range - Lower Bound	<0.002	0.03	<0.05	54.3	2	0.8	157.0	0.09	<0.05	0.5	0.430	<0.02	<0.1	167	0.5
Upper Bound	0.004	0.05	0.10	60.3	4	1.3	174.0	0.20	0.10	0.9	0.485	0.04	0.3	186	0.9
LI11121	<0.002	0.07	0.31	0.5	24	0.2	31.9	<0.05	11.35	0.3	0.007	0.04	52.4	408	3.4
DUP	<0.002	0.06	0.27	0.4	22	0.2	30.6	<0.05	11.00	0.3	0.007	0.03	45.1	393	3.2
Target Range - Lower Bound	<0.002	0.05	0.22	0.3	21	<0.2	29.5	<0.05	10.55	<0.2	<0.005	<0.02	46.2	379	3.0
Upper Bound	0.004	0.08	0.36	0.6	25	0.4	33.0	0.10	11.80	0.4	0.010	0.04	51.3	422	3.6
LI11135															
DUP															
Target Range - Lower Bound															
Upper Bound															
LI11140	0.002	<0.01	0.16	10.8	2	0.9	401	0.08	<0.05	1.9	0.099	0.13	0.4	86	1.1
DUP	<0.002	<0.01	0.16	10.6	2	0.9	408	0.09	<0.05	2.0	0.106	0.13	0.4	88	1.1
Target Range - Lower Bound	<0.002	<0.01	0.10	10.1	<1	0.7	384	<0.05	<0.05	1.7	0.092	0.10	0.3	82	0.9
Upper Bound	0.004	0.02	0.22	11.3	3	1.1	425	0.10	0.10	2.2	0.113	0.16	0.5	92	1.3



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Method Analyte Units LOR	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
Sample Description															
LI11079 DUP	24.6 25.5	9 9	76.4 85.2	4.32 4.35	2.23 2.45	0.41 0.40	4.91 4.76	0.81 0.85	0.28 0.31	33.6 36.8	9.45 9.84	5.89 6.09	0.67 0.72	0.29 0.32	1.82 1.94
Target Range - Lower Bound	23.7	7	76.3	3.96	2.13	0.34	4.42	0.76	0.26	32.5	8.89	5.51	0.63	0.27	1.71
Upper Bound	26.4	11	85.3	4.71	2.55	0.47	5.25	0.90	0.33	37.9	10.40	6.47	0.76	0.34	2.05
LI11085 DUP															
Target Range - Lower Bound															
Upper Bound															
LI11088 DUP	14.2 13.4	113 111	4.6 4.5	2.35 2.41	1.28 1.44	0.71 0.74	2.30 2.37	0.47 0.48	0.19 0.19	7.2 7.5	1.37 1.51	1.93 1.94	0.35 0.39	0.19 0.20	1.24 1.25
Target Range - Lower Bound	13.0	104	3.8	2.15	1.23	0.64	2.11	0.43	0.17	6.7	1.30	1.76	0.33	0.17	1.12
Upper Bound	14.6	120	5.3	2.61	1.49	0.81	2.56	0.52	0.21	8.0	1.58	2.11	0.41	0.22	1.37
LI11105 DUP															
Target Range - Lower Bound															
Upper Bound															
LI11108 DUP	27.0 25.9	79 77	51.9 50.4	4.57 4.42	2.52 2.50	1.43 1.39	5.03 4.79	0.97 0.94	0.32 0.31	14.8 14.7	3.64 3.50	4.42 4.19	0.84 0.82	0.37 0.35	2.13 2.07
Target Range - Lower Bound	25.0	72	48.1	4.11	2.29	1.27	4.49	0.87	0.28	13.5	3.27	3.95	0.76	0.32	1.91
Upper Bound	27.9	84	54.2	4.88	2.73	1.55	5.33	1.04	0.35	16.0	3.87	4.66	0.90	0.40	2.29
LI11121 DUP	29.8 23.8	22 21	2.1 2.2	4.40 4.05	2.37 2.19	0.63 0.58	4.27 3.80	0.90 0.83	0.26 0.25	9.8 9.4	2.65 2.53	2.87 2.65	0.84 0.78	0.31 0.27	1.81 1.68
Target Range - Lower Bound	25.4	18	1.5	3.86	2.08	0.53	3.68	0.79	0.23	8.8	2.37	2.52	0.74	0.26	1.58
Upper Bound	28.2	25	2.8	4.59	2.48	0.68	4.39	0.94	0.28	10.4	2.81	3.00	0.88	0.32	1.91
LI11135 DUP															
Target Range - Lower Bound															
Upper Bound															
LI11140 DUP	12.3 12.7	30 30	6.8 7.4	2.21 2.22	1.18 1.21	0.86 0.90	2.89 3.02	0.43 0.45	0.15 0.16	15.5 16.5	4.16 4.51	3.49 3.67	0.49 0.49	0.16 0.16	1.03 1.07
Target Range - Lower Bound	11.8	27	6.2	2.00	1.08	0.78	2.68	0.40	0.13	14.7	3.98	3.28	0.44	0.14	0.94
Upper Bound	13.2	34	8.0	2.43	1.31	0.98	3.23	0.48	0.18	17.3	4.69	3.88	0.54	0.18	1.16



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Sample Description	Method Analyte Units LOR	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001
LI11079 DUP Target Range - Lower Bound Upper Bound		DUPLICATES		
LI11085 DUP Target Range - Lower Bound Upper Bound		<0.001 <0.001 <0.001 0.002	<0.005 <0.005 <0.005 0.010	<0.001 <0.001 <0.001 0.002
LI11088 DUP Target Range - Lower Bound Upper Bound				
LI11105 DUP Target Range - Lower Bound Upper Bound		<0.001 0.001 <0.001 0.002	<0.005 <0.005 <0.005 0.010	0.001 0.003 <0.001 0.003
LI11108 DUP Target Range - Lower Bound Upper Bound				
LI11121 DUP Target Range - Lower Bound Upper Bound				
LI11135 DUP Target Range - Lower Bound Upper Bound		<0.001 <0.001 <0.001 0.002	<0.005 <0.005 <0.005 0.010	<0.001 <0.001 <0.001 0.002
LI11140 DUP Target Range - Lower Bound Upper Bound				



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Method Analyte Units LOR	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	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05
Sample Description															
LI11153 DUP	0.02 <0.02	7.67 7.82	0.6 0.8	830 830	1.33 1.28	0.01 0.01	2.81 2.83	0.06 0.06	87.8 92.1	11.9 11.4	22 22	0.37 0.37	47.2 47.2	5.93 5.95	23.1 23.0
Target Range - Lower Bound	<0.01	7.35	0.5	760	1.19	<0.01	2.67	0.04	85.4	11.0	20	0.30	44.6	5.63	21.8
Upper Bound	0.03	8.14	0.9	900	1.42	0.02	2.97	0.08	94.5	12.3	24	0.44	49.8	6.25	24.3
LI11155 DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL DUP															
Target Range - Lower Bound															
Upper Bound															



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Sample Description	Method Analyte Units LOR	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1
DUPLICATES																
LI11153		0.25	1.2	0.072	1.77	44.2	6.9	0.84	996	0.93	2.39	17.0	16.7	1440	10.0	49.8
DUP		0.23	1.2	0.076	1.79	47.9	6.6	0.85	998	0.93	2.38	17.1	16.4	1430	9.9	54.0
Target Range - Lower Bound		0.18	1.0	0.065	1.68	43.2	6.2	0.79	942	0.83	2.26	16.1	15.5	1350	9.0	49.2
Upper Bound		0.30	1.4	0.083	1.88	48.9	7.3	0.90	1050	1.03	2.51	18.0	17.6	1520	10.9	54.6
LI11155																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOR	ME-MS61r Re ppm	ME-MS61r S %	ME-MS61r Sb ppm	ME-MS61r Sc ppm	ME-MS61r Se ppm	ME-MS61r Sn ppm	ME-MS61r Sr ppm	ME-MS61r Ta ppm	ME-MS61r Te ppm	ME-MS61r Th ppm	ME-MS61r Ti %	ME-MS61r Tl ppm	ME-MS61r U ppm	ME-MS61r V ppm	ME-MS61r W ppm
		0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1
DUPLICATES																
LI11153		<0.002	<0.01	<0.05	18.2	3	0.8	235	0.88	<0.05	5.7	0.628	0.25	0.8	66	0.2
DUP		<0.002	<0.01	<0.05	18.4	3	0.8	237	0.89	<0.05	6.5	0.630	0.24	0.8	65	0.2
Target Range - Lower Bound		<0.002	<0.01	<0.05	17.3	2	0.6	224	0.79	<0.05	5.6	0.593	0.21	0.7	61	<0.1
Upper Bound		0.004	0.02	0.10	19.3	4	1.0	248	0.98	0.10	6.6	0.665	0.28	0.9	70	0.3
LI11155																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
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Target Range - Lower Bound																
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Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOR	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
DUPLICATES																
LI11153		28.2	101	39.6	5.30	2.80	2.38	6.32	1.04	0.33	35.5	9.91	6.99	1.07	0.37	2.29
DUP		29.6	102	40.6	5.43	2.87	2.44	6.55	1.08	0.33	38.6	10.65	7.22	1.08	0.37	2.27
Target Range - Lower Bound		27.4	94	37.6	4.91	2.59	2.20	5.90	0.97	0.30	34.2	9.48	6.54	0.98	0.33	2.08
Upper Bound		30.4	109	42.6	5.82	3.08	2.62	6.97	1.15	0.36	39.9	11.10	7.67	1.17	0.41	2.48
LI11155																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
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Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOR	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001
LI11153 DUP Target Range - Lower Bound Upper Bound		DUPLICATES		
LI11155 DUP Target Range - Lower Bound Upper Bound		0.021 0.041 0.028 0.034	<0.005 <0.005 <0.005 0.010	<0.001 <0.001 <0.001 0.002
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<0.001 <0.001 <0.001 0.002	0.006 0.008 <0.005 0.010	0.004 0.004 0.003 0.005
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<0.001 <0.001 <0.001 0.002	<0.005 <0.005 <0.005 0.010	<0.001 <0.001 <0.001 0.002
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.001 <0.001 <0.001 0.002	<0.005 <0.005 <0.005 0.010	<0.001 <0.001 <0.001 0.002
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<0.001 0.001 <0.001 0.002	<0.005 <0.005 <0.005 0.010	<0.001 <0.001 <0.001 0.002



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Method	CERTIFICATE COMMENTS
ME-MS61r ME-MS61r	Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in this method.