



Australian Laboratory Services Pty. Ltd.  
32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
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## QC CERTIFICATE AS12088298

Project: LINDEMANS BORE

P.O. No.:

This report is for 90 Drill Core samples submitted to our lab in Alice Springs, NT, Australia on 24-APR-2012.

The following have access to data associated with this certificate:

DAN HAMPTON

ASHLEY HOOD

PETER PEEBLES

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
PUL-22	Pulverizing 3kg sample in LM5
HOM-01	Homogenise Sample
CRU-21	Crush entire sample >70% -6 mm
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	
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: PROTO RESOURCES AND INVESTMENTS LTD  
ATTN: ASHLEY HOOD  
SUITE 1906 LEVEL 19  
109 PITT STREET  
SYDNEY NSW 2000

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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Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-MS61r	ME-MS61r	ME-MS61r
		As	Co	Cr	Cu	Ni	Pb	Sc	U	Zn	Au	Pt	Pd	Ag	Al	As
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		5	1	1	1	1	2	1	10	2	0.001	0.005	0.001	0.01	0.01	0.2
STANDARDS																
GBM398-4c		7	2010	1800	3840	4180	>10000	7	<10	5250						
GBM398-4c		8	1970	1760	3980	4100	>10000	7	<10	5190						
GBM398-4c		7	1990	1720	3830	4030	>10000	7	10	5080						
GBM398-4c		<5	1850	1660	3670	3820	>10000	7	<10	4790						
GBM398-4c		6	1970	1820	3860	4060	>10000	8	<10	5150						
Target Range - Lower Bound		<5	1775	1540	3500	3660	10550	5	<10	4600						
Upper Bound		17	2170	1885	4280	4480	>10000	9	30	5630						
GBM908-10		62	24	138	3520	2190	2050	18	<10	1070						
GBM908-10		59	24	140	3590	2160	1970	17	<10	1060						
GBM908-10		53	24	139	3500	2140	2030	17	<10	1050						
GBM908-10		61	27	140	3690	2270	2040	17	<10	1100						
GBM908-10		64	29	147	3710	2260	2100	19	10	1090						
Target Range - Lower Bound		42	21	127	3270	2030	1860	14	<10	939						
Upper Bound		68	27	157	3990	2480	2280	20	20	1155						
GBM999-5														58.8	4.55	3.3
GBM999-5														59.0	4.61	3.5
GBM999-5														61.4	4.37	3.6
Target Range - Lower Bound														53.5	4.26	3.0
Upper Bound														65.4	5.22	4.2
GEOMS-03														0.80	4.97	635
GEOMS-03														0.75	5.12	675
GEOMS-03														0.71	4.85	618
Target Range - Lower Bound														0.67	4.61	570
Upper Bound														0.85	5.65	697
MRGeo08		36	19	92	605	674	1080	11	<10	803						
MRGeo08		30	17	91	602	667	1040	11	<10	766						
MRGeo08		34	19	89	611	674	1040	11	10	783						
MRGeo08		32	19	90	607	673	1030	11	10	776						
MRGeo08		34	21	97	639	700	1090	12	10	809						
Target Range - Lower Bound		22	18	82	567	616	964	10	<10	712						
Upper Bound		45	24	102	695	756	1180	15	30	874						
MRGeo08														4.28	7.52	33.3
MRGeo08														4.37	7.78	33.8
MRGeo08														4.33	7.25	32.8
MRGeo08														4.71	7.21	35.0
MRGeo08														4.59	7.33	33.9
MRGeo08														4.33	7.27	33.1



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Method Analyte Units LOR	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	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005
<b>Sample Description</b>	<b>STANDARDS</b>														
GBM398-4c															
GBM398-4c															
GBM398-4c															
GBM398-4c															
GBM398-4c															
Target Range - Lower Bound															
Upper Bound															
GBM908-10															
GBM908-10															
GBM908-10															
GBM908-10															
GBM908-10															
Target Range - Lower Bound															
Upper Bound															
GBM999-5	180	1.38	0.57	0.10	0.20	20.8	3.3	7	0.82	508	3.07	16.10	0.10	0.7	0.031
GBM999-5	180	1.27	0.62	0.10	0.24	28.7	3.6	7	0.89	486	3.12	16.80	0.17	0.7	0.033
GBM999-5	170	1.44	0.52	0.10	0.19	27.1	3.7	6	0.77	472	2.97	16.10	0.09	0.7	0.028
Target Range - Lower Bound	140	1.12	0.50	0.08	0.16	23.6	2.9	4	0.68	429	2.67	14.70	<0.05	0.6	0.019
Upper Bound	220	1.48	0.64	0.13	0.26	28.9	3.7	8	0.96	525	3.29	18.10	0.24	1.0	0.042
GEOMS-03	2490	1.85	0.39	0.40	0.39	56.0	12.5	121	10.55	133.5	4.37	14.15	0.14	1.2	0.050
GEOMS-03	2530	1.61	0.42	0.40	0.40	54.9	12.8	122	11.15	144.0	4.36	14.35	0.21	1.2	0.056
GEOMS-03	2370	1.57	0.35	0.38	0.33	52.7	11.3	118	9.79	133.0	4.18	14.10	0.11	1.3	0.048
Target Range - Lower Bound	2060	1.34	0.31	0.33	0.30	47.0	10.7	105	9.04	120.5	3.64	12.00	0.06	1.1	0.032
Upper Bound	2810	1.74	0.41	0.43	0.42	57.4	13.3	131	11.15	147.5	4.48	14.75	0.28	1.7	0.056
MRGeo08															
MRGeo08															
MRGeo08															
MRGeo08															
MRGeo08															
Target Range - Lower Bound															
Upper Bound															
MRGeo08	990	3.22	0.71	2.51	2.37	80.3	20.7	91	12.10	657	3.99	20.7	0.17	3.5	0.187
MRGeo08	1030	3.31	0.49	2.62	2.43	82.4	20.7	93	12.70	677	4.21	21.0	0.19	3.6	0.199
MRGeo08	1060	3.17	0.74	2.66	2.48	69.7	20.0	92	12.50	641	4.01	19.30	0.18	3.5	0.187
MRGeo08	1050	3.53	0.77	2.65	2.72	81.9	21.2	95	13.40	650	4.01	20.7	0.22	3.4	0.200
MRGeo08	1030	2.91	0.67	2.51	2.43	82.0	19.9	89	13.15	624	3.93	21.0	0.10	3.3	0.190
MRGeo08	1030	2.96	0.63	2.52	2.32	78.0	20.0	89	12.60	631	3.95	19.75	0.11	3.3	0.183



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Method Analyte Units LOR	ME-MS61r K %	ME-MS61r La ppm	ME-MS61r Li ppm	ME-MS61r Mg %	ME-MS61r Mn ppm	ME-MS61r Mo ppm	ME-MS61r Na %	ME-MS61r Nb ppm	ME-MS61r Ni ppm	ME-MS61r P ppm	ME-MS61r Pb ppm	ME-MS61r Rb ppm	ME-MS61r Re ppm	ME-MS61r S %	ME-MS61r Sb ppm
Sample Description	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05
STANDARDS															
GBM398-4c															
GBM398-4c															
GBM398-4c															
GBM398-4c															
GBM398-4c															
Target Range - Lower Bound															
Upper Bound															
GBM908-10															
GBM908-10															
GBM908-10															
GBM908-10															
GBM908-10															
Target Range - Lower Bound															
Upper Bound															
GBM999-5	3.58	10.5	2.8	0.04	69	4.22	0.92	5.0	3.9	50	533	490	0.006	0.30	5.99
GBM999-5	3.27	15.5	3.7	0.04	72	4.45	0.96	6.8	4.8	50	547	444	0.007	0.33	5.92
GBM999-5	3.47	12.4	3.5	0.04	69	4.33	0.99	6.3	4.6	50	520	490	0.006	0.30	5.71
Target Range - Lower Bound	3.10	11.8	2.7	0.02	53	3.77	0.83	5.3	3.8	30	487	433	<0.002	0.26	4.78
Upper Bound	3.81	15.6	3.9	0.06	79	4.71	1.03	6.7	5.0	70	597	529	0.009	0.34	6.58
GEOMS-03	1.17	21.5	40.8	0.52	540	3.58	0.07	14.4	57.6	1050	6.7	64.8	0.002	0.03	21.0
GEOMS-03	1.17	29.9	47.9	0.51	543	3.60	0.06	16.1	60.3	1100	7.8	65.9	0.003	0.04	19.95
GEOMS-03	1.09	26.1	45.9	0.48	522	3.35	0.08	15.3	51.0	1070	5.6	64.8	0.003	0.04	19.65
Target Range - Lower Bound	1.03	25.6	37.6	0.48	483	3.05	0.06	13.1	48.1	970	5.5	55.7	<0.002	0.02	15.85
Upper Bound	1.29	32.4	46.4	0.60	601	3.83	0.11	16.3	59.3	1210	8.2	68.3	0.006	0.06	21.5
MRGeo08															
MRGeo08															
MRGeo08															
MRGeo08															
MRGeo08															
Target Range - Lower Bound															
Upper Bound															
MRGeo08	2.93	38.2	26.2	1.37	552	15.80	1.89	19.6	680	970	1040	188.0	0.009	0.30	4.59
MRGeo08	3.03	38.7	26.7	1.43	575	15.95	1.97	20.0	698	1030	1080	186.0	0.011	0.32	4.76
MRGeo08	3.13	33.0	32.0	1.30	574	15.25	1.96	20.9	678	1050	1055	182.0	0.010	0.33	4.57
MRGeo08	3.16	37.9	36.1	1.29	571	16.10	1.96	22.1	687	1050	1045	157.5	0.010	0.33	4.79
MRGeo08	3.01	36.0	29.1	1.28	548	16.75	1.92	22.1	658	1020	1025	208	0.011	0.31	5.21
MRGeo08	3.03	32.7	28.7	1.28	553	15.90	1.93	21.0	662	1010	1030	198.0	0.009	0.32	4.92



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Method Analyte Units LOR	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	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5
<b>STANDARDS</b>															
GBM398-4c															
GBM398-4c															
GBM398-4c															
GBM398-4c															
GBM398-4c															
Target Range - Lower Bound															
Upper Bound															
GBM908-10															
GBM908-10															
GBM908-10															
GBM908-10															
GBM908-10															
Target Range - Lower Bound															
Upper Bound															
GBM999-5	1.7	2	1.8	14.9	0.42	0.31	5.7	0.021	2.29	2.2	7	2.7	11.3	118	15.9
GBM999-5	1.9	2	1.8	18.3	0.31	0.33	5.8	0.020	2.23	2.4	7	2.5	14.1	119	22.2
GBM999-5	1.8	2	1.7	16.1	0.35	0.31	5.0	0.020	2.09	2.1	8	2.7	11.7	116	18.5
Target Range - Lower Bound	1.7	<1	1.2	14.5	0.22	0.18	4.4	0.009	1.75	1.8	5	2.1	10.3	102	16.4
Upper Bound	2.3	4	2.2	18.2	0.46	0.40	5.8	0.031	2.41	2.4	9	3.0	12.8	129	23.4
GEOMS-03	13.7	3	3.0	186.5	0.96	0.16	7.2	0.455	1.38	3.8	114	24.7	22.4	46	34.4
GEOMS-03	13.9	3	2.9	175.5	1.04	0.15	7.1	0.476	1.26	4.0	120	22.0	24.7	51	40.3
GEOMS-03	13.6	3	2.7	171.5	1.05	0.14	6.6	0.467	1.27	3.5	108	23.7	22.0	51	43.2
Target Range - Lower Bound	12.4	<1	2.0	157.5	0.80	<0.05	6.2	0.409	0.99	3.1	104	18.1	19.8	40	44.0
Upper Bound	15.4	5	3.0	192.5	1.10	0.24	8.0	0.511	1.39	4.0	130	24.7	24.4	54	60.8
MGeo08															
MGeo08															
MGeo08															
MGeo08															
MGeo08															
Target Range - Lower Bound															
Upper Bound															
MGeo08	13.0	2	4.3	296	1.53	<0.05	22.9	0.472	1.11	6.4	108	5.4	27.6	809	114.5
MGeo08	13.0	2	4.5	310	1.59	0.05	15.9	0.494	0.78	4.3	112	3.8	28.3	841	117.5
MGeo08	12.3	2	4.3	296	2.15	<0.05	19.7	0.492	1.06	5.9	113	4.6	26.2	811	104.5
MGeo08	13.8	2	4.5	298	1.72	<0.05	23.4	0.499	1.11	6.5	116	4.8	29.2	823	108.5
MGeo08	13.2	2	4.6	291	1.75	<0.05	21.2	0.493	1.08	5.6	107	5.3	28.7	779	112.5
MGeo08	12.2	2	4.3	294	1.68	0.05	19.8	0.497	1.10	5.6	107	5.3	26.4	781	106.5



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<b>Sample Description</b>	<b>STANDARDS</b>											
GBM398-4c												
GBM398-4c												
GBM398-4c												
GBM398-4c												
GBM398-4c												
Target Range - Lower Bound												
Upper Bound												
GBM908-10												
GBM908-10												
GBM908-10												
GBM908-10												
GBM908-10												
Target Range - Lower Bound												
Upper Bound												
GBM999-5	1.53	1.05	0.28	1.74	0.27	0.20	9.3	2.58	2.06	0.24	0.16	1.40
GBM999-5	1.75	1.17	0.26	1.66	0.36	0.27	8.4	2.60	1.98	0.31	0.21	1.49
GBM999-5	1.64	1.10	0.24	1.60	0.36	0.25	8.4	2.53	1.98	0.28	0.20	1.49
Target Range - Lower Bound	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	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	3.92	2.28	1.19	4.99	0.68	0.24	24.8	6.03	5.06	0.64	0.25	1.79
GEOMS-03	3.98	2.11	1.12	4.41	0.75	0.29	23.1	6.54	4.79	0.73	0.30	1.69
GEOMS-03	3.79	2.15	1.07	4.47	0.78	0.28	22.9	6.12	4.90	0.68	0.31	1.85
Target Range - Lower Bound	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	4.51	2.55	1.47	5.83	0.92	0.34	30.1	7.84	5.91	0.88	0.36	2.18
MGeo08												
MGeo08												
MGeo08												
MGeo08												
MGeo08												
Target Range - Lower Bound												
Upper Bound												
MGeo08	5.17	3.16	1.62	6.54	0.91	0.36	34.4	8.67	6.91	0.86	0.37	2.75
MGeo08	3.55	2.14	1.06	4.47	0.63	0.25	23.5	5.92	4.71	0.58	0.25	1.87
MGeo08	4.78	2.78	1.34	5.05	0.98	0.38	28.0	8.06	5.81	0.86	0.40	2.39
MGeo08	5.44	3.00	1.49	5.68	1.05	0.42	32.1	9.19	6.48	0.96	0.43	2.54
MGeo08	5.26	2.97	1.41	5.73	1.07	0.42	32.2	8.99	6.82	0.89	0.44	2.70
MGeo08	4.88	2.91	1.31	5.46	1.00	0.40	29.8	8.15	6.40	0.87	0.43	2.66



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Sample Description	5	1	1	1	1	2	1	10	2	0.001	0.005	0.001	0.01	0.01	0.2
STANDARDS															
Target Range - Lower Bound													4.16	7.00	29.7
Upper Bound													5.10	8.57	36.7
OREAS-101a	10	44	30	417	7	29	9	380	25						
OREAS-101a	15	45	29	410	6	28	8	360	24						
OREAS-101a	14	48	31	420	13	39	8	370	29						
OREAS-101a	16	48	30	427	18	38	8	350	30						
OREAS-101a	10	45	29	412	12	35	9	410	26						
Target Range - Lower Bound	6	41	24	375	6	18	7	360	16						
Upper Bound	28	53	32	461	11	28	11	460	26						
OxJ80										2.34	<0.005	0.001			
OxJ80										2.47	<0.005	<0.001			
OxJ80										2.35	<0.005	0.002			
OxJ80										2.36	<0.005	<0.001			
OxJ80										2.27	0.005	0.001			
OxJ80										2.41	<0.005	<0.001			
Target Range - Lower Bound										2.19	<0.005	<0.001			
Upper Bound										2.47	0.010	0.002			
PK2										4.80	4.89	5.89			
Target Range - Lower Bound										4.50	4.46	5.56			
Upper Bound										5.07	5.04	6.27			
ST-381										0.945	0.912	0.611			
ST-381										1.210	0.929	0.637			
ST-381										0.864	0.969	0.647			
ST-381										0.911	0.986	0.661			
Target Range - Lower Bound										0.850	0.902	0.689			
Upper Bound										0.960	1.030	0.779			
ST-460										0.042	0.045	0.045			
ST-460										0.048	0.046	0.045			
ST-460										0.051	0.040	0.045			
ST-460										0.044	0.043	0.046			
Target Range - Lower Bound										0.048	0.035	0.041			
Upper Bound										0.056	0.055	0.049			



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Method Analyte Units LOR	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	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005
Sample Description															
	STANDARDS														
Target Range - Lower Bound	920	2.80	0.63	2.35	2.01	72.9	18.4	82	11.00	568	3.61	17.50	<0.05	2.8	0.161
Upper Bound	1270	3.54	0.79	2.90	2.50	89.1	22.8	102	13.60	694	4.43	21.5	0.27	3.6	0.207
OREAS-101a															
OREAS-101a															
OREAS-101a															
OREAS-101a															
OREAS-101a															
Target Range - Lower Bound															
Upper Bound															
OxJ80															
OxJ80															
OxJ80															
OxJ80															
OxJ80															
OxJ80															
Target Range - Lower Bound															
Upper Bound															
PK2															
Target Range - Lower Bound															
Upper Bound															
ST-381															
ST-381															
ST-381															
ST-381															
Target Range - Lower Bound															
Upper Bound															
ST-460															
ST-460															
ST-460															
ST-460															
Target Range - Lower Bound															
Upper Bound															





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Method Analyte Units LOR	ME-MS61r K %	ME-MS61r La ppm	ME-MS61r Li ppm	ME-MS61r Mg %	ME-MS61r Mn ppm	ME-MS61r Mo ppm	ME-MS61r Na %	ME-MS61r Nb ppm	ME-MS61r Ni ppm	ME-MS61r P ppm	ME-MS61r Pb ppm	ME-MS61r Rb ppm	ME-MS61r Re ppm	ME-MS61r S %	ME-MS61r Sb ppm
Sample Description	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05
STANDARDS															
Target Range - Lower Bound	2.79	36.3	30.4	1.24	506	13.65	1.76	18.3	617	910	965	187.0	0.006	0.27	4.08
Upper Bound	3.43	45.5	37.6	1.54	630	16.75	2.18	22.5	755	1140	1180	229	0.016	0.35	5.64
OREAS-101a															
OREAS-101a															
OREAS-101a															
OREAS-101a															
OREAS-101a															
Target Range - Lower Bound															
Upper Bound															
OxJ80															
OxJ80															
OxJ80															
OxJ80															
OxJ80															
OxJ80															
Target Range - Lower Bound															
Upper Bound															
PK2															
Target Range - Lower Bound															
Upper Bound															
ST-381															
ST-381															
ST-381															
ST-381															
Target Range - Lower Bound															
Upper Bound															
ST-460															
ST-460															
ST-460															
ST-460															
Target Range - Lower Bound															
Upper Bound															



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Method Analyte Units LOR	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	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5
Sample Description															
	STANDARDS														
Target Range - Lower Bound	11.0	<1	3.5	272	1.48	<0.05	19.2	0.454	<0.02	5.6	99	4.3	24.3	712	92.2
Upper Bound	13.6	4	4.7	332	1.92	0.21	23.9	0.566	0.04	7.0	123	6.1	29.9	874	126.0
OREAS-101a															
OREAS-101a															
OREAS-101a															
OREAS-101a															
OREAS-101a															
Target Range - Lower Bound															
Upper Bound															
OxJ80															
OxJ80															
OxJ80															
OxJ80															
OxJ80															
OxJ80															
Target Range - Lower Bound															
Upper Bound															
PK2															
Target Range - Lower Bound															
Upper Bound															
ST-381															
ST-381															
ST-381															
ST-381															
Target Range - Lower Bound															
Upper Bound															
ST-460															
ST-460															
ST-460															
ST-460															
Target Range - Lower Bound															
Upper Bound															



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Sample Description	Method Analyte Units LOR	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
STANDARDS													
Target Range - Lower Bound		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		5.51	3.27	1.70	6.78	1.09	0.46	36.1	9.56	7.16	1.01	0.46	2.95
OREAS-101a													
OREAS-101a													
OREAS-101a													
OREAS-101a													
OREAS-101a													
Target Range - Lower Bound													
Upper Bound													
OxJ80													
OxJ80													
OxJ80													
OxJ80													
OxJ80													
OxJ80													
Target Range - Lower Bound													
Upper Bound													
PK2													
Target Range - Lower Bound													
Upper Bound													
ST-381													
ST-381													
ST-381													
ST-381													
Target Range - Lower Bound													
Upper Bound													
ST-460													
ST-460													
ST-460													
ST-460													
Target Range - Lower Bound													
Upper Bound													



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Method Analyte Units LOR	ME-ICP61 As ppm 5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Ni ppm 1	ME-ICP61 Pb ppm 2	ME-ICP61 Sc ppm 1	ME-ICP61 U ppm 10	ME-ICP61 Zn ppm 2	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2
Sample Description															
BLANKS															
BLANK	<5	<1	1	<1	<1	<2	<1	<10	<2						
BLANK	<5	<1	<1	<1	<1	<2	<1	<10	<2						
BLANK	<5	<1	<1	<1	<1	<2	<1	<10	<2						
BLANK	<5	1	1	1	1	4	<1	<10	<2						
BLANK	<5	<1	<1	<1	<1	<2	<1	<10	<2						
Target Range - Lower Bound	<5	<1	<1	<1	<1	<2	<1	<10	<2						
Upper Bound	10	2	2	2	2	4	2	20	4						
BLANK													0.02	0.44	<0.2
BLANK													<0.02	<0.01	<0.2
BLANK													<0.02	<0.01	<0.2
Target Range - Lower Bound													<0.01	<0.01	<0.2
Upper Bound													0.02	0.02	0.4
BLANK										<0.001	<0.005	<0.001			
BLANK										0.002	<0.005	<0.001			
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	13	44	339	75	206	14	43	<10	151						
DUP	13	45	342	74	208	16	44	<10	150						
Target Range - Lower Bound	7	41	322	70	196	12	40	<10	141						
Upper Bound	19	48	359	79	218	18	47	20	160						
LBD3010													0.08	6.51	24.8
DUP													0.08	6.57	24.5
Target Range - Lower Bound													0.07	6.20	23.2
Upper Bound													0.09	6.88	26.1
LBD3016	20	19	594	14	194	11	36	<10	18						
DUP	22	19	592	13	192	12	37	<10	18						
Target Range - Lower Bound	15	17	562	12	182	9	34	<10	15						
Upper Bound	27	21	624	15	204	14	39	20	21						



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Method Analyte Units LOR	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	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005
Sample Description															
BLANK	BLANKS														
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound	<10	0.05	<0.01	0.40	<0.02	1.03	2.6	11	0.05	4.8	0.56	1.07	<0.05	0.2	0.005
Upper Bound	<10	<0.05	0.02	<0.01	<0.02	0.02	<0.1	3	<0.05	0.2	<0.01	<0.05	<0.05	<0.1	<0.005
BLANK	<10	<0.05	<0.01	<0.01	<0.02	0.02	<0.1	<1	<0.05	<0.2	<0.01	<0.05	<0.05	<0.1	<0.005
Target Range - Lower Bound	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05	<0.05	<0.1	<0.005
Upper Bound	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10	0.10	0.2	0.010
BLANK	DUPLICATES														
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3010	120	4.70	0.74	1.41	0.02	259	24.9	659	13.90	10.8	21.1	32.4	0.62	16.3	0.080
DUP	130	4.41	1.54	1.41	0.04	270	24.4	661	14.50	10.4	21.2	31.8	0.63	16.7	0.084
Target Range - Lower Bound	110	4.28	1.07	1.33	<0.02	251	23.3	626	13.45	9.9	20.1	30.4	0.54	15.6	0.073
Upper Bound	140	4.83	1.21	1.49	0.04	278	26.0	694	14.95	11.3	22.2	33.8	0.71	17.4	0.091
LBD3016															
DUP															
Target Range - Lower Bound															
Upper Bound															



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Method Analyte Units LOR	ME-MS61r K %	ME-MS61r La ppm	ME-MS61r Li ppm	ME-MS61r Mg %	ME-MS61r Mn ppm	ME-MS61r Mo ppm	ME-MS61r Na %	ME-MS61r Nb ppm	ME-MS61r Ni ppm	ME-MS61r P ppm	ME-MS61r Pb ppm	ME-MS61r Rb ppm	ME-MS61r Re ppm	ME-MS61r S %	ME-MS61r Sb ppm
Sample Description	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05
BLANK	BLANKS														
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	0.02	<0.5	0.4	0.19	91	0.10	0.11	0.4	3.5	40	0.6	0.7	<0.002	<0.01	<0.05
BLANK	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.4	<10	<0.5	<0.1	<0.002	<0.01	<0.05
BLANK	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.4	<10	<0.5	0.1	0.002	<0.01	<0.05
Target Range - Lower Bound	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1	<0.002	<0.01	<0.05
Upper Bound	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2	0.004	0.02	0.10
BLANK	DUPLICATES														
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3010	3.76	104.5	13.3	0.84	716	0.71	0.07	108.5	248	6940	15.5	193.5	0.002	0.01	1.41
DUP	3.80	108.5	15.7	0.86	722	0.72	0.06	108.5	248	6690	15.8	192.0	<0.002	0.01	1.49
Target Range - Lower Bound	3.58	100.5	13.6	0.80	678	0.63	0.05	103.0	235	6460	14.4	183.0	<0.002	<0.01	1.29
Upper Bound	3.98	112.5	15.4	0.90	760	0.80	0.08	114.0	261	7170	16.9	202	0.004	0.02	1.61
LBD3016															
DUP															
Target Range - Lower Bound															
Upper Bound															



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Sample Description															
BLANK	BLANKS														
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	2.1	<1	<0.2	11.5	<0.05	<0.05	<0.2	0.083	<0.02	<0.1	17	<0.1	2.0	7	6.6
BLANK	0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.2	<0.005	<0.02	<0.1	<1	<0.1	<0.1	<2	<0.5
BLANK	0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.2	<0.005	<0.02	<0.1	<1	<0.1	<0.1	<2	<0.5
Target Range - Lower Bound	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.2	<0.005	<0.02	<0.1	<1	<0.1	<0.1	<2	<0.5
Upper Bound	0.2	5	0.4	0.4	0.10	0.10	0.4	0.010	0.04	0.2	2	0.2	0.2	4	1.0
BLANK	DUPLICATES														
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3010	48.0	4	5.6	182.0	5.22	0.09	6.3	3.79	0.20	3.5	353	4.4	48.0	24	>500
DUP	46.8	4	5.9	181.5	5.34	0.15	6.5	3.76	0.21	3.6	356	4.5	50.0	24	>500
Target Range - Lower Bound	44.9	3	5.3	172.5	4.97	0.06	5.9	3.58	0.17	3.3	336	4.0	46.5	21	475
Upper Bound	49.9	5	6.2	191.0	5.59	0.18	6.9	3.97	0.24	3.8	373	4.9	51.6	27	>500
LBD3016															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3016															
DUP															
Target Range - Lower Bound															
Upper Bound															



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Sample Description												
BLANK	BLANKS											
BLANK												
BLANK												
BLANK												
BLANK												
Target Range - Lower Bound												
Upper Bound												
BLANK												
BLANK												
BLANK												
Target Range - Lower Bound	0.40	0.24	0.11	0.43	0.07	0.03	0.9	0.18	0.29	0.06	0.03	0.20
Upper Bound	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01	<0.03
BLANK	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01	<0.03
Target Range - Lower Bound	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01	<0.03
Upper Bound	0.10	0.06	0.06	0.10	0.02	0.02	0.2	0.06	0.06	0.02	0.02	0.06
BLANK	DUPLICATES											
BLANK												
BLANK												
BLANK												
BLANK												
Target Range - Lower Bound												
Upper Bound												
ORIGINAL												
DUP												
Target Range - Lower Bound												
Upper Bound												
LBD3010	8.64	3.77	7.98	18.90	1.29	0.33	148.0	45.7	27.8	1.88	0.39	2.61
DUP	8.46	3.69	7.73	18.30	1.26	0.33	144.0	31.7	26.9	1.81	0.39	2.62
Target Range - Lower Bound	7.86	3.42	7.24	17.15	1.17	0.30	135.0	35.8	25.3	1.70	0.35	2.39
Upper Bound	9.24	4.04	8.47	20.0	1.38	0.36	157.0	41.6	29.4	1.99	0.43	2.84
LBD3016												
DUP												
Target Range - Lower Bound												
Upper Bound												





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Sample Description	5	1	1	1	1	2	1	10	2	0.001	0.005	0.001	0.01	0.01	0.2
LBD3030 DUP	DUPLICATES														
Target Range - Lower Bound													0.52	4.78	4.4
Upper Bound													0.55	4.95	4.4
LBD3032 DUP										0.003	<0.005	0.001			
Target Range - Lower Bound										0.003	<0.005	0.001			
Upper Bound										0.002	<0.005	<0.001			
LBD3036 DUP	14	84	379	56	245	8	31	10	52						
Target Range - Lower Bound	9	80	370	47	235	5	29	<10	48						
Upper Bound	21	90	411	54	262	9	34	20	57						
LBD3043 DUP													0.02	7.35	5.5
Target Range - Lower Bound													0.04	7.32	5.3
Upper Bound													0.02	6.96	4.9
LBD3049 DUP	30	87	466	161	339	13	31	<10	62						
Target Range - Lower Bound	29	85	470	164	341	12	32	<10	62						
Upper Bound	23	81	444	153	322	10	29	<10	57						
LBD3063 DUP													0.31	5.42	94.9
Target Range - Lower Bound													0.31	5.45	95.5
Upper Bound													0.28	5.15	90.2
LBD3065 DUP										0.022	<0.005	0.006			
Target Range - Lower Bound										0.023	<0.005	0.005			
Upper Bound										0.020	<0.005	0.004			
LBD3069 DUP	49	42	86	219	91	20	16	10	36						
Target Range - Lower Bound	39	40	81	205	87	20	15	10	34						
Upper Bound	37	38	78	200	84	17	14	<10	31						



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Method Analyte Units LOR	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	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005
Sample Description															
	DUPLICATES														
LBD3030	330	2.09	0.32	6.61	0.03	149.5	79.6	348	2.53	16.7	7.56	19.60	0.34	11.4	0.165
DUP	340	2.12	0.34	6.62	0.03	154.0	82.2	345	2.63	18.3	7.71	20.8	0.35	11.9	0.176
Target Range - Lower Bound	300	1.95	0.30	6.27	<0.02	144.0	76.8	328	2.40	16.4	7.24	19.15	0.28	11.0	0.157
Upper Bound	370	2.26	0.36	6.96	0.04	159.5	85.0	365	2.76	18.6	8.03	21.3	0.41	12.3	0.184
LBD3032															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3036															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3043	670	2.90	0.04	0.35	<0.02	18.25	48.6	443	4.90	6.6	7.97	20.4	0.34	3.0	0.043
DUP	670	3.33	0.04	0.35	<0.02	20.6	50.7	455	5.14	7.0	8.02	22.1	0.37	3.0	0.043
Target Range - Lower Bound	610	2.91	0.03	0.32	<0.02	18.45	47.1	426	4.72	6.3	7.59	20.1	0.29	2.8	0.036
Upper Bound	730	3.32	0.05	0.38	0.04	20.4	52.2	472	5.32	7.3	8.40	22.4	0.42	3.3	0.050
LBD3049															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3063	90	2.23	0.18	0.99	<0.02	138.5	91.3	434	2.95	284	12.75	26.9	0.88	10.1	0.089
DUP	90	2.32	0.19	0.99	<0.02	136.0	91.0	415	3.00	276	12.80	27.4	0.70	9.9	0.094
Target Range - Lower Bound	70	2.11	0.17	0.93	<0.02	130.5	86.5	402	2.78	266	12.15	25.7	0.70	9.4	0.082
Upper Bound	110	2.44	0.20	1.05	0.04	144.0	95.8	447	3.17	294	13.40	28.6	0.88	10.6	0.101
LBD3065															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3069															
DUP															
Target Range - Lower Bound															
Upper Bound															



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Method Analyte Units LOR	ME-MS61r K %	ME-MS61r La ppm	ME-MS61r Li ppm	ME-MS61r Mg %	ME-MS61r Mn ppm	ME-MS61r Mo ppm	ME-MS61r Na %	ME-MS61r Nb ppm	ME-MS61r Ni ppm	ME-MS61r P ppm	ME-MS61r Pb ppm	ME-MS61r Rb ppm	ME-MS61r Re ppm	ME-MS61r S %	ME-MS61r Sb ppm
Sample Description	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05
<b>DUPLICATES</b>															
LBD3030	2.34	58.2	78.7	6.20	2950	0.75	0.03	59.4	375	4530	9.2	46.2	0.002	<0.01	0.28
DUP	2.39	60.3	78.7	6.30	2960	0.80	0.03	62.8	372	4700	9.6	49.2	0.002	<0.01	0.29
Target Range - Lower Bound	2.24	55.8	74.6	5.93	2800	0.69	0.02	57.9	355	4370	8.4	45.2	<0.002	<0.01	0.21
Upper Bound	2.49	62.7	82.8	6.57	3110	0.86	0.04	64.3	392	4860	10.4	50.2	0.004	0.02	0.36
LBD3032															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3036															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3043	4.36	6.7	104.0	4.86	240	0.18	0.05	3.4	175.5	460	4.6	62.4	0.002	0.01	0.39
DUP	4.61	7.9	117.5	4.87	243	0.20	0.05	3.5	177.5	460	4.8	70.4	<0.002	0.01	0.42
Target Range - Lower Bound	4.25	6.4	105.0	4.61	224	0.13	0.04	3.2	167.5	430	4.0	63.0	<0.002	<0.01	0.32
Upper Bound	4.72	8.2	116.5	5.12	259	0.25	0.06	3.7	185.5	490	5.4	69.8	0.004	0.02	0.49
LBD3049															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3063	0.79	58.1	112.5	5.01	297	3.48	0.03	50.7	340	3920	14.2	33.0	0.013	0.55	1.65
DUP	0.77	57.4	118.0	5.01	298	3.55	0.03	51.1	334	3880	14.7	34.1	0.013	0.55	1.67
Target Range - Lower Bound	0.73	54.4	109.5	4.75	278	3.29	0.02	48.3	320	3700	13.2	31.8	0.010	0.51	1.49
Upper Bound	0.83	61.1	121.0	5.27	317	3.74	0.04	53.5	354	4110	15.7	35.3	0.016	0.59	1.83
LBD3065															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3069															
DUP															
Target Range - Lower Bound															
Upper Bound															



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Method Analyte Units LOR	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	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5
Sample Description															
	DUPLICATES														
LBD3030	34.0	3	4.1	80.0	3.82	0.07	4.5	2.67	0.14	1.1	336	2.0	28.8	51	486
DUP	34.8	3	4.3	90.0	4.03	0.07	4.7	2.68	0.16	1.2	337	2.1	30.2	51	472
Target Range - Lower Bound	32.6	2	3.8	80.6	3.68	<0.05	4.2	2.54	0.12	1.0	319	1.8	27.9	46	455
Upper Bound	36.2	4	4.6	89.5	4.17	0.10	5.0	2.81	0.18	1.3	354	2.3	31.1	56	>500
LBD3032															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3036															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3043	19.4	1	1.2	83.5	0.43	<0.05	2.4	0.300	0.69	1.8	134	0.8	9.7	57	108.0
DUP	22.0	1	1.1	85.4	0.28	<0.05	2.7	0.308	0.72	1.9	139	0.9	10.4	57	109.5
Target Range - Lower Bound	19.6	<1	0.9	80.0	0.29	<0.05	2.2	0.284	0.63	1.7	129	0.7	9.4	52	103.0
Upper Bound	21.8	2	1.4	88.9	0.42	0.10	2.9	0.324	0.78	2.0	144	1.0	10.7	62	114.5
LBD3049															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3063	32.0	3	3.4	48.0	3.42	0.05	5.1	2.22	0.16	2.2	291	17.8	27.0	65	396
DUP	33.5	3	3.4	48.3	3.31	0.05	5.4	2.13	0.17	2.4	282	18.2	26.8	62	379
Target Range - Lower Bound	31.0	2	3.0	45.5	3.15	<0.05	4.8	2.06	0.13	2.1	271	16.6	25.5	58	368
Upper Bound	34.5	4	3.8	50.8	3.58	0.10	5.7	2.29	0.20	2.5	302	19.5	28.3	69	407
LBD3065															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3069															
DUP															
Target Range - Lower Bound															
Upper Bound															



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Method Analyte Units LOR	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
<b>Sample Description</b>												
	<b>DUPLICATES</b>											
LBD3030	6.37	2.92	4.53	11.30	1.01	0.27	73.1	16.10	14.70	1.26	0.31	2.07
DUP	6.78	3.10	4.81	12.10	1.06	0.28	77.9	17.25	15.75	1.34	0.33	2.21
Target Range - Lower Bound	6.03	2.75	4.29	10.75	0.95	0.24	69.7	15.40	14.05	1.19	0.29	1.95
Upper Bound	7.12	3.27	5.05	12.65	1.12	0.31	81.3	17.95	16.40	1.41	0.35	2.33
LBD3032												
DUP												
Target Range - Lower Bound												
Upper Bound												
LBD3036												
DUP												
Target Range - Lower Bound												
Upper Bound												
LBD3043	2.08	1.04	0.81	2.31	0.38	0.15	9.0	2.30	2.26	0.39	0.15	0.85
DUP	2.12	1.06	0.86	2.47	0.40	0.16	10.0	2.52	2.36	0.40	0.15	0.90
Target Range - Lower Bound	1.89	0.94	0.74	2.16	0.35	0.13	8.7	2.20	2.11	0.36	0.13	0.78
Upper Bound	2.31	1.16	0.93	2.62	0.43	0.18	10.3	2.62	2.51	0.43	0.17	0.97
LBD3049												
DUP												
Target Range - Lower Bound												
Upper Bound												
LBD3063	5.93	2.70	3.62	8.80	1.02	0.32	67.4	17.80	13.15	1.24	0.37	1.95
DUP	6.07	2.68	3.50	9.01	1.08	0.34	66.6	17.30	12.85	1.27	0.36	2.01
Target Range - Lower Bound	5.50	2.46	3.26	8.19	0.96	0.30	61.9	16.20	12.00	1.15	0.33	1.80
Upper Bound	6.50	2.92	3.86	9.62	1.14	0.36	72.1	18.90	14.00	1.36	0.40	2.16
LBD3065												
DUP												
Target Range - Lower Bound												
Upper Bound												
LBD3069												
DUP												
Target Range - Lower Bound												
Upper Bound												



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Sample Description															
LBD3076 DUP Target Range - Lower Bound Upper Bound	DUPLICATES														
													1.98	4.89	114.5
													1.95	4.85	115.0
													1.86	4.62	109.0
													2.07	5.12	120.5
LBD3079 DUP Target Range - Lower Bound Upper Bound										0.003 0.003 0.002 0.004	0.006 <0.005 <0.005 0.010	0.003 0.002 <0.001 0.004			
LBD3082 DUP Target Range - Lower Bound Upper Bound	76 80 69 87	112 112 105 119	505 532 492 545	570 577 544 603	622 625 591 656	17 13 12 18	27 28 25 30	<10 <10 20	61 63 57 67						
ORIGINAL DUP Target Range - Lower Bound Upper Bound										0.012 0.011 0.010 0.013	0.005 <0.005 <0.005 0.010	0.015 0.016 0.014 0.017			
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										0.004 0.002 0.002 0.004	<0.005 <0.005 <0.005 0.010	0.002 0.002 <0.001 0.003			
ORIGINAL DUP Target Range - Lower Bound Upper Bound										0.033 0.026 0.027 0.032	0.033 0.007 0.014 0.026	0.063 0.048 0.052 0.059			
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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Sample Description	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005
LBD3076	70	1.34	1.04	1.20	<0.02	242	157.5	838	1.66	1295	13.00	24.7	0.41	11.7	0.085
DUP	70	1.50	1.08	1.19	<0.02	248	153.5	776	1.66	1215	12.90	25.0	0.39	11.9	0.092
Target Range - Lower Bound	50	1.30	1.00	1.13	<0.02	233	147.5	766	1.53	1190	12.30	23.6	0.33	11.1	0.079
Upper Bound	90	1.54	1.12	1.26	0.04	257	163.5	848	1.79	1320	13.60	26.1	0.47	12.5	0.098
LBD3079															
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3082															
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															
ORIGINAL															
DUP															
Target Range - Lower Bound															
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Method Analyte Units LOR	ME-MS61r K %	ME-MS61r La ppm	ME-MS61r Li ppm	ME-MS61r Mg %	ME-MS61r Mn ppm	ME-MS61r Mo ppm	ME-MS61r Na %	ME-MS61r Nb ppm	ME-MS61r Ni ppm	ME-MS61r P ppm	ME-MS61r Pb ppm	ME-MS61r Rb ppm	ME-MS61r Re ppm	ME-MS61r S %	ME-MS61r Sb ppm
Sample Description	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05
LBD3076	0.82	95.9	50.7	5.00	259	3.26	0.03	64.9	699	5040	30.9	33.7	0.024	2.27	2.09
DUP	0.76	96.9	49.0	4.97	253	3.42	0.03	67.9	662	4960	32.8	34.2	0.024	2.24	2.17
Target Range - Lower Bound	0.74	91.1	47.2	4.73	238	3.12	0.02	63.0	646	4740	29.8	32.2	0.021	2.13	1.92
Upper Bound	0.84	101.5	52.5	5.24	274	3.56	0.04	69.8	715	5260	33.9	35.7	0.027	2.38	2.34
LBD3079	DUPLICATES														
DUP															
Target Range - Lower Bound															
Upper Bound															
LBD3082															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
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Target Range - Lower Bound															
Upper Bound															





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 Brisbane QLD 4053  
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Sample Description	Method Analyte Units LOR	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	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5
DUPLICATES																
LBD3076		34.0	4	4.4	75.7	4.52	0.37	6.6	2.65	0.66	8.1	369	6.1	38.3	104	468
DUP		36.1	4	4.5	77.7	4.44	0.39	6.7	2.45	0.69	8.5	349	6.3	38.8	104	435
Target Range - Lower Bound		33.2	3	4.0	72.7	4.21	0.31	6.1	2.42	0.60	7.8	340	5.6	36.5	97	428
Upper Bound		36.9	5	4.9	80.7	4.75	0.45	7.2	2.68	0.75	8.8	378	6.8	40.6	111	475
LBD3079																
DUP																
Target Range - Lower Bound																
Upper Bound																
LBD3082																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
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Target Range - Lower Bound																
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Method Analyte Units LOR	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												
	<b>DUPLICATES</b>											
LBD3076	7.73	3.54	5.00	13.10	1.40	0.38	113.5	28.6	20.7	1.68	0.46	2.61
DUP	7.93	3.59	5.27	13.90	1.47	0.39	116.5	29.9	21.4	1.70	0.48	2.72
Target Range - Lower Bound	7.19	3.27	4.72	12.45	1.32	0.35	106.5	27.0	19.45	1.55	0.42	2.44
Upper Bound	8.47	3.86	5.55	14.55	1.55	0.42	123.5	31.5	22.7	1.83	0.52	2.89
LBD3079												
DUP												
Target Range - Lower Bound												
Upper Bound												
LBD3082												
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												
ORIGINAL												
DUP												
Target Range - Lower Bound												
Upper Bound												



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Sample Description	Method Analyte Units LOR	ME-ICP61 As ppm 5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Ni ppm 1	ME-ICP61 Pb ppm 2	ME-ICP61 Sc ppm 1	ME-ICP61 U ppm 10	ME-ICP61 Zn ppm 2	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
											0.002	<0.005	0.001			
											0.001	<0.005	0.001			
											<0.001	<0.005	<0.001			
											0.002	0.010	0.002			
ORIGINAL DUP Target Range - Lower Bound Upper Bound											<0.001	<0.005	<0.001			
											<0.001	<0.005	<0.001			
											<0.001	<0.005	<0.001			
											0.002	0.010	0.002			
ORIGINAL DUP Target Range - Lower Bound Upper Bound											0.367	0.323	1.260			
											1.030	0.171	1.240			
											0.663	0.230	1.185			
											0.734	0.264	1.315			



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Brisbane QLD 4053  
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Sample Description	Method Analyte Units LOR	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	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES															
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 K %	ME-MS61r La ppm	ME-MS61r Li ppm	ME-MS61r Mg %	ME-MS61r Mn ppm	ME-MS61r Mo ppm	ME-MS61r Na %	ME-MS61r Nb ppm	ME-MS61r Ni ppm	ME-MS61r P ppm	ME-MS61r Pb ppm	ME-MS61r Rb ppm	ME-MS61r Re ppm	ME-MS61r S %	ME-MS61r Sb ppm
		0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES															
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 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	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES															
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 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
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES											
ORIGINAL DUP Target Range - Lower Bound Upper Bound													
ORIGINAL DUP Target Range - Lower Bound Upper Bound													



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Method	CERTIFICATE COMMENTS
ME-MS61r	REE's may not be totally soluble in this method.