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## QC CERTIFICATE AS12150273

Project: LIMBLA

P.O. No.: LI120702

This report is for 288 Soil samples submitted to our lab in Alice Springs, NT, Australia on 2-JUL-2012.

The following have access to data associated with this certificate:

ANDY BENNETT  
GAVIN OTTO

GRAHAM BUBNER

CHRIS GAUGHAN

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS23	IONIC Leach - Complete PKG.	ICP-MS
pH-MS23	MS23 Leach pH	

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.

Signature:

Wayne Abbott, Operations Manager, Western Australia



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Method Analyte Units LOR	ME-MS23 Ag ppb 0.1	ME-MS23 As ppb 2	ME-MS23 Au ppb 0.02	ME-MS23 Ba ppb 10	ME-MS23 Be ppb 0.2	ME-MS23 Bi ppb 3	ME-MS23 Br ppm 0.05	ME-MS23 Ca ppm 0.2	ME-MS23 Cd ppb 1	ME-MS23 Ce ppb 0.1	ME-MS23 Co ppb 0.3	ME-MS23 Cr ppb 1	ME-MS23 Cs ppb 0.1	ME-MS23 Cu ppb 1	ME-MS23 Dy ppb 0.1
Sample Description															
STANDARDS															
ION-SRM18	18.3	9	6.85	200	0.2	<3	1.40	166.0	63	13.8	58.5	5	6.9	713	1.0
ION-SRM18	20.5	8	7.38	160	<0.2	<3	1.57	159.5	60	11.5	57.0	3	6.6	740	0.8
ION-SRM18	17.8	8	6.86	180	0.2	<3	1.47	155.0	60	13.9	55.9	4	6.6	761	1.2
ION-SRM18	21.0	8	8.14	180	<0.2	<3	1.60	163.0	66	13.2	51.5	4	7.0	712	1.1
ION-SRM18	17.0	9	7.22	180	<0.2	<3	1.41	156.0	61	15.2	59.7	5	7.0	751	1.1
ION-SRM18	18.1	9	7.24	200	<0.2	<3	1.46	142.5	64	13.3	45.6	4	6.3	523	1.0
ION-SRM18	24.1	8	7.52	190	0.3	<3	1.57	166.5	68	13.2	63.0	4	7.3	750	1.0
ION-SRM18	18.0	8	5.19	160	0.2	<3	1.34	152.0	58	14.6	58.6	4	6.6	678	1.1
ION-SRM18	16.6	9	5.24	200	0.2	<3	1.54	143.0	60	13.6	48.7	3	5.2	1480	1.2
ION-SRM18	23.7	8	6.95	180	0.3	<3	1.43	203	89	14.4	61.3	4	7.1	728	1.0
ION-SRM18	17.3	7	6.85	190	0.2	<3	1.54	146.5	68	14.9	51.2	2	6.7	691	1.2
ION-SRM18	17.2	9	5.63	180	<0.2	<3	1.38	163.5	64	12.3	59.7	4	7.5	767	1.1
ION-SRM18	17.7	8	6.95	160	0.3	<3	1.65	142.5	60	13.0	60.5	3	6.4	910	1.2
ION-SRM18	20.9	8	7.23	180	<0.2	<3	1.38	159.0	78	14.0	57.9	4	7.5	709	1.1
Target Range - Lower Bound	15.7	3	6.83	180	<0.2	<3	1.23	139.5	58	13.6	54.6	3	6.6	693	1.0
Upper Bound	19.4	12	8.39	240	0.6	6	1.61	171.0	73	16.8	67.3	8	8.2	849	1.6
BLANKS															
BLANK	<0.1	<2	<0.02	<10	<0.2	<3	<0.05	<0.2	<1	0.1	<0.3	2	<0.1	1	<0.1
BLANK	0.1	<2	0.02	<10	<0.2	<3	<0.05	<0.2	<1	0.1	<0.3	1	<0.1	2	<0.1
BLANK	<0.1	<2	<0.02	<10	<0.2	<3	<0.05	<0.2	<1	0.1	<0.3	2	<0.1	1	<0.1
BLANK	<0.1	2	0.03	10	<0.2	<3	<0.05	<0.2	<1	0.2	<0.3	1	<0.1	<1	0.1
BLANK	<0.1	2	0.03	10	<0.2	<3	<0.05	<0.2	<1	0.2	0.3	1	<0.1	<1	<0.1
BLANK	<0.1	<2	0.04	<10	0.3	<3	<0.05	0.3	<1	0.1	<0.3	<1	<0.1	<1	<0.1
BLANK	<0.1	<2	<0.02	<10	<0.2	<3	<0.05	<0.2	<1	<0.1	<0.3	1	<0.1	<1	0.1
Target Range - Lower Bound	<0.1	<2	<0.02	<10	<0.2	<3	<0.05	<0.2	<1	<0.1	<0.3	<1	<0.1	<1	<0.1
Upper Bound	0.2	4	0.04	20	0.4	6	0.10	0.4	2	0.2	0.6	2	0.2	2	0.2



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Method Analyte Units LOR	ME-MS23 Er ppb 0.1	ME-MS23 Eu ppb 0.1	ME-MS23 Fe ppm 0.1	ME-MS23 Ga ppb 0.5	ME-MS23 Gd ppb 0.1	ME-MS23 Ge ppb 0.1	ME-MS23 Hf ppb 0.5	ME-MS23 Hg ppb 0.1	ME-MS23 Ho ppb 0.1	ME-MS23 I ppm 0.01	ME-MS23 In ppb 0.1	ME-MS23 La ppb 0.1	ME-MS23 Li ppb 0.2	ME-MS23 Lu ppb 0.1	ME-MS23 Mg ppm 0.01
Sample Description															
STANDARDS															
ION-SRM18	0.5	0.6	2.1	5.3	2.6	0.1	<0.5	4.2	0.2	0.16	<0.1	5.4	0.7	<0.1	76.8
ION-SRM18	0.4	0.5	1.8	4.8	2.0	<0.1	<0.5	3.1	0.1	0.13	<0.1	4.4	0.4	<0.1	75.6
ION-SRM18	0.5	0.6	2.0	5.1	2.6	<0.1	<0.5	3.7	0.2	0.15	<0.1	4.7	0.2	<0.1	72.4
ION-SRM18	0.5	0.6	1.9	5.0	2.5	<0.1	<0.5	4.0	0.1	0.16	<0.1	4.6	<0.2	<0.1	82.1
ION-SRM18	0.5	0.6	2.1	5.3	2.7	0.1	<0.5	3.0	0.2	0.14	<0.1	4.8	<0.2	<0.1	75.6
ION-SRM18	0.5	0.5	1.7	5.8	2.4	<0.1	<0.5	3.8	0.1	0.13	<0.1	4.5	0.2	<0.1	74.6
ION-SRM18	0.6	0.6	2.1	5.2	2.4	<0.1	<0.5	3.7	0.1	0.16	<0.1	4.4	<0.2	<0.1	89.1
ION-SRM18	0.5	0.6	2.1	4.7	2.6	<0.1	<0.5	2.5	0.1	0.14	<0.1	4.9	<0.2	<0.1	75.0
ION-SRM18	0.6	0.7	2.0	7.1	2.7	<0.1	<0.5	3.8	0.2	0.13	<0.1	4.2	<0.2	<0.1	67.5
ION-SRM18	0.4	0.6	2.1	4.6	2.2	<0.1	<0.5	3.6	0.1	0.18	<0.1	4.7	<0.2	<0.1	97.5
ION-SRM18	0.6	0.6	1.9	5.6	2.6	<0.1	<0.5	3.9	0.2	0.13	<0.1	4.3	<0.2	<0.1	68.4
ION-SRM18	0.5	0.5	2.2	5.0	2.6	<0.1	<0.5	3.0	0.2	0.14	<0.1	4.7	<0.2	<0.1	74.8
ION-SRM18	0.6	0.7	2.1	6.3	2.5	0.1	<0.5	4.0	0.2	0.13	<0.1	4.5	<0.2	<0.1	70.4
ION-SRM18	0.5	0.6	2.0	5.3	2.2	<0.1	<0.5	4.1	0.2	0.16	<0.1	4.9	<0.2	<0.1	83.3
Target Range - Lower Bound	0.5	0.6	2.0	4.3	2.5	<0.1	<0.5	3.7	<0.1	0.12	<0.1	4.4	<0.2	<0.1	66.4
Upper Bound	0.9	1.0	2.7	6.9	3.3	0.2	1.2	4.8	0.4	0.18	0.3	5.6	0.7	0.2	81.2
BLANKS															
BLANK	0.1	<0.1	<0.1	<0.5	0.1	0.1	<0.5	<0.1	<0.1	<0.01	<0.1	0.1	0.2	<0.1	<0.01
BLANK	0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.01
BLANK	0.1	<0.1	<0.1	<0.5	0.1	<0.1	<0.5	0.1	<0.1	<0.01	<0.1	0.1	<0.2	<0.1	0.01
BLANK	0.2	0.1	<0.1	<0.5	0.1	<0.1	<0.5	<0.1	<0.1	<0.01	<0.1	<0.1	<0.2	<0.1	0.01
BLANK	0.1	0.1	0.2	<0.5	<0.1	<0.1	<0.5	0.1	<0.1	<0.01	<0.1	0.2	<0.2	<0.1	<0.01
BLANK	0.1	<0.1	0.2	0.7	0.2	<0.1	<0.5	<0.1	<0.1	<0.01	<0.1	0.1	<0.2	<0.1	<0.01
BLANK	0.1	0.1	0.1	<0.5	<0.1	<0.1	<0.5	0.1	<0.1	<0.01	<0.1	<0.1	<0.2	<0.1	0.01
Target Range - Lower Bound	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.01
Upper Bound	0.2	0.2	0.2	1.0	0.2	0.2	1.0	0.2	0.2	0.02	0.2	0.2	0.4	0.2	0.02



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Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
		Mn	Mo	Nb	Nd	Ni	Pb	Pb 206	Pb 207	Pb 208	Pd	Pr	Pt	Rb	Re
		ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
		0.01	0.5	0.1	0.1	1	1	1	1	1	0.1	0.1	0.1	0.1	0.5
STANDARDS															
ION-SRM18		0.43	26.7	0.1	11.5	506	45	11	10	24	11.5	2.0	5.5	159.5	<0.1
ION-SRM18		0.40	25.8	0.1	9.2	533	87	20	20	47	12.7	1.5	5.8	171.0	<0.1
ION-SRM18		0.44	24.9	0.1	11.8	510	51	12	12	26	10.8	1.9	4.8	157.5	<0.1
ION-SRM18		0.44	29.3	0.1	11.2	520	87	20	20	47	12.7	1.8	5.7	176.0	<0.1
ION-SRM18		0.44	24.2	0.1	11.8	528	87	20	20	47	11.1	2.1	4.9	157.0	<0.1
ION-SRM18		0.37	28.6	0.1	10.6	403	54	13	12	29	10.8	1.9	4.9	181.5	<0.1
ION-SRM18		0.43	28.2	0.1	11.7	520	87	20	20	48	13.0	1.8	5.7	168.5	<0.1
ION-SRM18		0.43	21.9	<0.1	12.8	500	26	6	6	14	9.7	2.0	4.2	144.5	<0.1
ION-SRM18		0.38	26.2	0.1	12.1	392	87	20	20	47	8.0	2.0	4.8	179.0	<0.1
ION-SRM18		0.45	30.5	<0.1	10.9	510	40	9	9	21	12.7	1.9	5.8	163.0	<0.1
ION-SRM18		0.36	28.6	0.1	11.6	438	50	12	11	26	12.0	1.9	6.0	179.5	<0.1
ION-SRM18		0.42	23.3	<0.1	12.0	519	87	20	20	47	11.3	2.0	4.8	147.0	<0.1
ION-SRM18		0.43	29.3	0.1	11.8	547	87	20	20	47	10.8	1.9	5.8	178.0	<0.1
ION-SRM18		0.44	32.2	<0.1	11.5	502	57	13	13	23	12.8	2.0	5.1	161.0	<0.1
Target Range - Lower Bound		0.41	26.3	<0.1	11.4	495	77	17	17	17	10.6	1.7	4.7	156.5	<0.1
Upper Bound		0.53	33.3	0.2	14.2	607	97	23	23	23	13.2	2.3	5.9	191.5	0.2
BLANKS															
BLANK		<0.01	<0.5	<0.1	<0.1	1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.5
BLANK		<0.01	<0.5	<0.1	<0.1	2	<1	<1	<1	<1	<0.1	<0.1	<0.1	0.1	<0.5
BLANK		<0.01	<0.5	<0.1	<0.1	1	<1	<1	<1	<1	0.1	<0.1	0.1	0.1	<0.5
BLANK		<0.01	<0.5	<0.1	<0.1	1	<1	<1	<1	<1	<0.1	0.1	<0.1	0.1	<0.5
BLANK		<0.01	<0.5	<0.1	0.1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	0.1	<0.5
BLANK		<0.01	<0.5	<0.1	0.1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.5
BLANK		<0.01	<0.5	<0.1	<0.1	2	<1	<1	<1	<1	<0.1	<0.1	<0.1	0.1	<0.5
Target Range - Lower Bound		<0.01	<0.5	<0.1	<0.1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.5
Upper Bound		0.02	1.0	0.2	0.2	2	2	2	2	2	0.2	0.2	0.2	0.2	1.0



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Method Analyte Units LOR	ME-MS23 Sc ppb 1	ME-MS23 Se ppb 2	ME-MS23 Sm ppb 0.1	ME-MS23 Sn ppb 0.2	ME-MS23 Sr ppb 1	ME-MS23 Ta ppb 1	ME-MS23 Tb ppb 0.1	ME-MS23 Te ppb 1	ME-MS23 Th ppb 0.02	ME-MS23 Ti ppb 5	ME-MS23 Tl ppb 0.5	ME-MS23 Tm ppb 0.1	ME-MS23 U ppb 0.1	ME-MS23 W ppb 1	ME-MS23 Y ppb 0.1
Sample Description															
STANDARDS															
ION-SRM18	3	12	2.6	0.2	1340	<1	0.3	1	3.23	37	<0.5	<0.1	8.7	<1	8.4
ION-SRM18	2	16	1.9	<0.2	1055	<1	0.2	<1	2.15	16	<0.5	<0.1	6.3	<1	7.3
ION-SRM18	2	10	2.7	<0.2	1010	<1	0.2	1	3.09	23	<0.5	<0.1	9.2	<1	7.5
ION-SRM18	2	12	2.7	<0.2	1070	<1	0.2	<1	3.15	18	<0.5	<0.1	9.5	<1	8.4
ION-SRM18	4	11	2.7	<0.2	1010	<1	0.3	<1	3.17	18	<0.5	<0.1	9.0	<1	7.1
ION-SRM18	3	13	2.5	<0.2	1110	<1	0.2	1	3.43	24	<0.5	<0.1	8.8	<1	8.7
ION-SRM18	3	13	2.6	<0.2	1120	<1	0.2	1	3.48	23	<0.5	<0.1	9.8	<1	9.1
ION-SRM18	2	12	2.7	<0.2	929	<1	0.2	<1	2.48	22	<0.5	<0.1	6.4	<1	6.4
ION-SRM18	2	13	2.8	<0.2	1210	<1	0.3	<1	3.06	22	<0.5	<0.1	7.0	<1	8.6
ION-SRM18	3	11	2.3	<0.2	1080	<1	0.2	<1	3.12	22	<0.5	<0.1	9.1	<1	7.2
ION-SRM18	2	10	2.5	<0.2	1220	<1	0.2	<1	3.15	20	<0.5	<0.1	8.7	<1	9.4
ION-SRM18	2	13	2.5	0.2	993	<1	0.2	<1	2.53	23	<0.5	<0.1	7.8	<1	6.4
ION-SRM18	2	13	2.6	<0.2	1110	<1	0.3	<1	2.71	22	<0.5	<0.1	7.3	<1	8.7
ION-SRM18	3	13	2.6	<0.2	973	<1	0.2	<1	3.24	19	<0.5	<0.1	9.0	<1	8.6
Target Range - Lower Bound	<1	12	2.5	<0.2	1010	<1	0.2	<1	3.11	21	<0.5	<0.1	8.7	<1	8.1
Upper Bound	5	22	3.3	0.4	1235	3	0.6	2	3.85	44	1.1	0.2	10.8	2	10.1
BLANKS															
BLANK	<1	<2	<0.1	<0.2	<1	<1	<0.1	<1	<0.02	<5	<0.5	<0.1	<0.1	<1	<0.1
BLANK	<1	<2	<0.1	<0.2	1	<1	<0.1	<1	0.03	<5	<0.5	<0.1	0.1	<1	<0.1
BLANK	2	2	<0.1	<0.2	<1	<1	<0.1	<1	<0.02	<5	<0.5	<0.1	<0.1	<1	<0.1
BLANK	<1	<2	<0.1	<0.2	<1	<1	<0.1	<1	0.03	6	<0.5	<0.1	0.1	<1	<0.1
BLANK	<1	<2	<0.1	<0.2	2	<1	<0.1	<1	0.04	5	<0.5	<0.1	0.1	<1	0.1
BLANK	<1	<2	0.1	<0.2	1	<1	<0.1	<1	0.03	7	<0.5	<0.1	<0.1	<1	0.1
BLANK	<1	<2	<0.1	<0.2	2	<1	<0.1	<1	<0.02	<5	<0.5	<0.1	<0.1	<1	<0.1
Target Range - Lower Bound	<1	<2	<0.1	<0.2	<1	<1	<0.1	<1	<0.02	<5	<0.5	<0.1	<0.1	<1	<0.1
Upper Bound	2	4	0.2	0.4	2	2	0.2	2	0.04	10	1.0	0.2	0.2	2	0.2



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Sample Description	Method Analyte Units LOR	ME-MS23 Yb ppb 0.1	ME-MS23 Zn ppb 10	ME-MS23 Zr ppb 0.1	pH-MS23 Final pH Unity 0.1
<b>STANDARDS</b>					
ION-SRM18		0.2	570	5.4	9.0
ION-SRM18		0.1	660	4.9	9.0
ION-SRM18		0.2	590	4.8	9.0
ION-SRM18		0.2	650	5.2	9.0
ION-SRM18		0.2	630	4.8	9.0
ION-SRM18		0.2	480	5.3	9.0
ION-SRM18		0.2	660	5.3	9.0
ION-SRM18		0.2	590	4.5	9.0
ION-SRM18		0.2	460	5.4	9.0
ION-SRM18		0.2	590	4.9	9.0
ION-SRM18		0.2	570	6.1	9.0
ION-SRM18		0.2	630	4.7	9.0
ION-SRM18		0.2	650	5.3	9.0
ION-SRM18		0.2	550	5.1	9.0
Target Range - Lower Bound		<0.1	530	4.3	
Upper Bound		0.5	670	5.5	
<b>BLANKS</b>					
BLANK		<0.1	<10	<0.1	9.0
BLANK		<0.1	<10	<0.1	9.0
BLANK		<0.1	10	<0.1	9.0
BLANK		<0.1	<10	<0.1	9.0
BLANK		<0.1	<10	0.2	9.0
BLANK		<0.1	<10	<0.1	9.0
BLANK		<0.1	<10	<0.1	9.0
Target Range - Lower Bound		<0.1	<10	<0.1	8.0
Upper Bound		0.2	20	0.2	10.0



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## QC CERTIFICATE OF ANALYSIS AS12150273

Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
		Ag	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy
		ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb
		0.1	2	0.02	10	0.2	3	0.05	0.2	1	0.1	0.3	1	0.1	1	0.1
		DUPLICATES														
LB1110		3.4	3	0.28	2750	<0.2	<3	<0.05	630	<1	3.8	39.4	2	0.1	1090	2.0
DUP		3.8	2	0.24	2980	<0.2	<3	<0.05	644	1	3.9	34.5	2	0.2	1210	2.0
Target Range - Lower Bound		3.3	<2	0.23	2710	<0.2	<3	<0.05	605	<1	3.6	34.8	<1	<0.1	1090	1.8
Upper Bound		3.9	4	0.29	3020	0.4	6	0.10	669	2	4.1	39.1	3	0.2	1210	2.2
LB1120		4.2	<2	0.52	2650	<0.2	<3	0.05	625	<1	5.1	12.1	<1	0.1	1140	1.6
DUP		5.2	<2	0.50	3000	0.2	<3	0.05	661	<1	5.3	10.5	<1	0.1	1240	1.5
Target Range - Lower Bound		4.4	<2	0.46	2670	<0.2	<3	<0.05	611	<1	4.8	10.4	<1	<0.1	1130	1.4
Upper Bound		5.0	4	0.56	2980	0.4	6	0.10	675	2	5.6	12.2	2	0.2	1250	1.7
LB1130		8.5	2	0.30	2270	<0.2	<3	<0.05	462	1	7.7	12.9	<1	0.5	1200	12.7
DUP		9.2	<2	0.31	2470	<0.2	<3	<0.05	531	1	7.5	8.2	1	0.5	1220	13.5
Target Range - Lower Bound		8.3	<2	0.27	2240	<0.2	<3	<0.05	471	<1	7.1	9.7	<1	0.4	1150	12.3
Upper Bound		9.4	4	0.34	2500	0.4	6	0.10	522	2	8.1	11.4	2	0.6	1270	13.9
LB1154		5.3	2	0.10	1780	0.3	<3	<0.05	556	1	4.3	7.0	1	0.2	942	2.7
DUP		5.4	<2	0.15	1770	0.4	<3	<0.05	525	1	4.2	6.2	<1	0.2	898	2.6
Target Range - Lower Bound		5.0	<2	0.10	1680	<0.2	<3	<0.05	513	<1	3.9	6.0	<1	<0.1	873	2.4
Upper Bound		5.7	4	0.15	1870	0.4	6	0.10	568	2	4.6	7.2	2	0.3	967	2.9
LB1165		6.4	2	0.06	1480	0.3	<3	<0.05	439	2	16.9	20.9	2	0.4	1090	10.0
DUP		6.4	<2	0.08	1460	0.2	<3	<0.05	426	2	15.3	18.6	2	0.3	1040	8.4
Target Range - Lower Bound		6.0	<2	0.05	1390	<0.2	<3	<0.05	411	<1	15.2	18.5	<1	0.2	1010	8.6
Upper Bound		6.8	4	0.09	1550	0.4	6	0.10	454	3	17.0	21.0	3	0.5	1120	9.8
LB1175		5.2	<2	0.18	2720	<0.2	<3	<0.05	801	1	7.7	14.7	1	0.1	562	2.3
DUP		4.9	<2	0.21	2560	0.2	<3	<0.05	761	1	7.0	14.7	1	0.1	549	2.4
Target Range - Lower Bound		4.7	<2	0.17	2500	<0.2	<3	<0.05	742	<1	6.9	13.7	<1	<0.1	527	2.1
Upper Bound		5.4	4	0.22	2780	0.4	6	0.10	820	2	7.8	15.7	2	0.2	584	2.6
LB1264		4.3	<2	0.08	960	0.4	<3	0.05	237	2	238	15.8	3	0.8	1020	29.5
DUP		4.5	<2	0.07	880	0.4	<3	0.07	207	2	202	17.0	4	0.7	1080	21.9
Target Range - Lower Bound		4.1	<2	0.05	860	<0.2	<3	<0.05	211	<1	209	15.3	2	0.6	997	24.3
Upper Bound		4.7	4	0.10	980	0.6	6	0.10	233	3	231	17.5	5	0.9	1105	27.1
LB1274		4.7	4	0.12	1600	0.2	<3	0.06	511	2	12.4	27.3	2	0.1	780	3.9
DUP		4.1	3	0.10	1550	<0.2	<3	0.07	448	1	13.6	24.3	3	0.1	745	3.9
Target Range - Lower Bound		4.1	<2	0.08	1490	<0.2	<3	<0.05	455	<1	12.3	24.2	<1	<0.1	723	3.6
Upper Bound		4.7	4	0.14	1660	0.4	6	0.10	504	2	13.8	27.4	4	0.2	802	4.2



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Method Analyte Units LOR	ME-MS23 Er ppb 0.1	ME-MS23 Eu ppb 0.1	ME-MS23 Fe ppm 0.1	ME-MS23 Ga ppb 0.5	ME-MS23 Gd ppb 0.1	ME-MS23 Ge ppb 0.1	ME-MS23 Hf ppb 0.5	ME-MS23 Hg ppb 0.1	ME-MS23 Ho ppb 0.1	ME-MS23 I ppm 0.01	ME-MS23 In ppb 0.1	ME-MS23 La ppb 0.1	ME-MS23 Li ppb 0.2	ME-MS23 Lu ppb 0.1	ME-MS23 Mg ppm 0.01
Sample Description															
<b>DUPLICATES</b>															
LB1110	0.9	1.6	3.0	71.0	4.5	<0.1	<0.5	0.2	0.3	0.02	<0.1	6.3	0.2	0.1	16.20
DUP	0.9	1.6	2.8	78.0	4.6	<0.1	<0.5	0.6	0.3	0.02	<0.1	7.5	0.2	0.1	16.25
Target Range - Lower Bound	0.8	1.4	2.7	70.3	4.2	<0.1	<0.5	0.3	0.2	<0.01	<0.1	6.5	<0.2	<0.1	15.40
Upper Bound	1.0	1.8	3.1	78.7	4.9	0.2	1.0	0.5	0.4	0.03	0.2	7.3	0.4	0.2	17.05
LB1120	0.7	1.3	2.7	75.4	3.8	<0.1	<0.5	0.3	0.2	0.04	<0.1	4.9	0.4	<0.1	54.0
DUP	0.7	1.2	2.8	74.5	4.1	<0.1	<0.5	0.9	0.2	0.05	<0.1	5.6	0.3	<0.1	58.7
Target Range - Lower Bound	0.6	1.1	2.5	70.7	3.7	<0.1	<0.5	0.5	<0.1	0.03	<0.1	4.9	<0.2	<0.1	53.5
Upper Bound	0.8	1.4	3.0	79.2	4.2	0.2	1.0	0.7	0.3	0.06	0.2	5.6	0.4	0.2	59.2
LB1130	5.6	4.9	2.8	60.6	24.0	0.2	<0.5	1.5	2.2	0.04	<0.1	15.7	1.1	0.4	130.0
DUP	5.7	5.1	2.3	61.5	24.8	0.2	<0.5	1.5	2.3	0.04	<0.1	15.9	1.0	0.5	146.5
Target Range - Lower Bound	5.3	4.7	2.3	57.5	23.1	<0.1	<0.5	1.3	2.0	0.03	<0.1	14.9	0.8	0.3	131.5
Upper Bound	6.0	5.4	2.8	64.6	25.7	0.3	1.0	1.7	2.5	0.05	0.2	16.7	1.3	0.6	145.0
LB1154	1.1	1.7	2.8	48.7	6.8	0.1	<0.5	0.7	0.4	0.02	<0.1	16.6	<0.2	0.1	50.3
DUP	1.2	1.8	2.7	46.1	6.8	0.1	<0.5	1.0	0.4	0.02	<0.1	16.2	<0.2	0.1	50.3
Target Range - Lower Bound	1.0	1.6	2.5	44.5	6.4	<0.1	<0.5	0.7	0.3	<0.01	<0.1	15.5	<0.2	<0.1	47.8
Upper Bound	1.3	1.9	3.0	50.3	7.2	0.2	1.0	1.0	0.5	0.03	0.2	17.3	0.4	0.2	52.8
LB1165	4.3	3.2	3.2	39.6	19.0	0.2	<0.5	0.6	1.6	0.02	<0.1	19.2	0.4	0.3	52.0
DUP	3.5	2.9	2.9	39.9	16.3	0.1	<0.5	0.7	1.3	0.02	<0.1	18.6	<0.2	0.3	50.7
Target Range - Lower Bound	3.6	2.8	2.8	37.3	16.7	<0.1	<0.5	0.5	1.3	<0.01	<0.1	17.9	<0.2	0.2	48.8
Upper Bound	4.2	3.3	3.3	42.2	18.6	0.2	1.0	0.8	1.6	0.03	0.2	19.9	0.4	0.4	53.9
LB1175	1.0	2.2	3.7	71.7	7.6	0.1	<0.5	0.9	0.3	0.02	<0.1	33.4	<0.2	0.1	21.0
DUP	1.0	2.2	3.4	69.1	7.8	<0.1	<0.5	0.5	0.3	0.02	<0.1	31.5	<0.2	0.1	19.25
Target Range - Lower Bound	0.9	2.0	3.3	66.4	7.2	<0.1	<0.5	0.6	0.2	<0.01	<0.1	30.7	<0.2	<0.1	19.10
Upper Bound	1.2	2.4	3.8	74.4	8.2	0.2	1.0	0.8	0.4	0.03	0.2	34.2	0.4	0.2	21.1
LB1264	14.8	10.9	3.5	26.2	69.7	0.9	<0.5	0.6	5.4	0.02	<0.1	168.5	1.3	1.3	48.7
DUP	11.2	8.8	3.5	28.8	56.9	0.8	<0.5	1.1	4.0	0.02	<0.1	149.5	1.3	0.9	43.3
Target Range - Lower Bound	12.3	9.3	3.2	25.6	60.0	0.7	<0.5	0.7	4.4	<0.01	<0.1	151.0	1.0	0.9	43.7
Upper Bound	13.8	10.4	3.8	29.4	66.6	1.0	1.0	1.0	5.0	0.03	0.2	167.0	1.6	1.3	48.3
LB1274	2.0	2.0	3.0	47.1	9.3	0.1	<0.5	0.8	0.6	0.02	<0.1	15.7	0.2	0.2	56.2
DUP	1.9	2.2	2.8	48.8	9.8	0.1	<0.5	0.9	0.7	0.02	<0.1	16.7	0.2	0.2	48.2
Target Range - Lower Bound	1.8	1.9	2.7	45.1	9.0	<0.1	<0.5	0.7	0.5	<0.01	<0.1	15.3	<0.2	<0.1	49.6
Upper Bound	2.1	2.3	3.1	50.8	10.1	0.2	1.0	1.0	0.8	0.03	0.2	17.1	0.4	0.3	54.8





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QC CERTIFICATE OF ANALYSIS AS12150273

Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
Analyte	Mn	Mo	Nb	Nd	Ni	Pb	Pb 206	Pb 207	Pb 208	Pd	Pr	Pt	Rb	Re	Sb
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LOR	0.01	0.5	0.1	0.1	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.5
Sample Description	DUPLICATES														
LB1110	0.66	0.8	0.1	15.5	233	7	2	2	3	0.3	2.0	<0.1	23.8	<0.1	<0.5
DUP	0.60	0.8	0.1	17.1	240	6	1	1	3	0.3	2.2	<0.1	26.5	<0.1	<0.5
Target Range - Lower Bound	0.59	<0.5	<0.1	15.4	224	5	<1	<1	2	0.2	1.9	<0.1	23.8	<0.1	<0.5
Upper Bound	0.67	1.0	0.2	17.2	249	8	2	2	4	0.4	2.3	0.2	26.5	0.2	1.0
LB1120	0.19	1.4	<0.1	12.6	229	4	1	1	2	0.3	1.6	<0.1	30.4	<0.1	<0.5
DUP	0.15	1.5	<0.1	13.5	236	4	1	1	2	0.2	1.8	<0.1	31.9	<0.1	<0.5
Target Range - Lower Bound	0.15	0.9	<0.1	12.3	220	3	<1	<1	<1	<0.1	1.5	<0.1	29.5	<0.1	<0.5
Upper Bound	0.19	2.0	0.2	13.8	245	5	2	2	3	0.4	1.9	0.2	32.8	0.2	1.0
LB1130	0.19	23.7	0.1	57.4	361	11	3	3	6	0.5	6.2	<0.1	82.5	<0.1	<0.5
DUP	0.13	23.5	0.1	60.6	368	15	4	3	8	0.6	6.4	<0.1	84.1	<0.1	<0.5
Target Range - Lower Bound	0.14	21.9	<0.1	56.0	345	11	2	2	6	0.4	5.9	<0.1	79.0	<0.1	<0.5
Upper Bound	0.18	25.3	0.2	62.1	384	15	5	4	8	0.7	6.7	0.2	87.6	0.2	1.0
LB1154	0.20	2.8	0.1	34.8	172	3	1	1	2	0.2	4.7	<0.1	68.8	<0.1	<0.5
DUP	0.17	2.8	0.1	33.2	164	3	1	1	2	0.2	4.5	<0.1	66.5	<0.1	<0.5
Target Range - Lower Bound	0.17	2.2	<0.1	32.2	159	2	<1	<1	<1	<0.1	4.3	<0.1	64.2	<0.1	<0.5
Upper Bound	0.20	3.4	0.2	35.8	177	4	2	2	3	0.3	4.9	0.2	71.1	0.2	1.0
LB1165	0.58	7.0	0.1	50.7	408	100	25	22	51	0.5	5.8	<0.1	196.0	<0.1	1.4
DUP	0.53	6.9	0.1	45.9	382	10	3	2	5	0.5	5.5	<0.1	191.5	<0.1	<0.5
Target Range - Lower Bound	0.52	6.1	<0.1	45.8	374	51	12	10	26	0.4	5.3	<0.1	184.0	<0.1	<0.5
Upper Bound	0.59	7.8	0.2	50.8	416	59	16	14	30	0.6	6.0	0.2	204	0.2	1.0
LB1175	0.29	2.0	0.1	56.2	201	3	1	1	1	0.2	8.1	<0.1	27.1	<0.1	<0.5
DUP	0.26	1.9	0.1	53.8	193	4	1	1	2	0.2	7.7	<0.1	26.7	<0.1	<0.5
Target Range - Lower Bound	0.25	1.4	<0.1	52.2	186	2	<1	<1	<1	<0.1	7.4	<0.1	25.5	<0.1	<0.5
Upper Bound	0.30	2.5	0.2	57.9	208	5	2	2	2	0.3	8.4	0.2	28.3	0.2	1.0
LB1264	0.73	10.1	0.2	270	91	138	42	26	68	1.8	44.3	<0.1	141.5	<0.1	<0.5
DUP	0.72	12.8	0.4	229	94	72	24	13	34	1.5	37.7	<0.1	173.5	<0.1	<0.5
Target Range - Lower Bound	0.68	10.4	0.2	237	87	99	30	18	47	1.5	38.9	<0.1	149.5	<0.1	<0.5
Upper Bound	0.77	12.5	0.4	262	98	111	36	21	55	1.8	43.2	0.2	165.5	0.2	1.0
LB1274	0.59	8.1	0.1	34.4	255	5	1	1	2	0.3	5.1	0.1	88.9	<0.1	<0.5
DUP	0.50	7.0	0.1	37.5	242	5	2	1	3	0.3	5.5	<0.1	87.6	<0.1	<0.5
Target Range - Lower Bound	0.51	6.7	<0.1	34.1	235	4	<1	<1	<1	0.2	4.9	<0.1	83.7	<0.1	<0.5
Upper Bound	0.58	8.4	0.2	37.8	262	6	2	2	4	0.4	5.7	0.2	92.8	0.2	1.0



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Method Analyte Units LOR	ME-MS23 Sc ppb 1	ME-MS23 Se ppb 2	ME-MS23 Sm ppb 0.1	ME-MS23 Sn ppb 0.2	ME-MS23 Sr ppb 1	ME-MS23 Ta ppb 1	ME-MS23 Tb ppb 0.1	ME-MS23 Te ppb 1	ME-MS23 Th ppb 0.02	ME-MS23 Ti ppb 5	ME-MS23 Tl ppb 0.5	ME-MS23 Tm ppb 0.1	ME-MS23 U ppb 0.1	ME-MS23 W ppb 1	ME-MS23 Y ppb 0.1
Sample Description															
	<b>DUPLICATES</b>														
LB1110	2	6	4.2	<0.2	697	<1	0.4	<1	0.55	27	<0.5	0.1	0.2	<1	14.5
DUP	2	4	4.3	<0.2	706	<1	0.4	<1	0.51	21	<0.5	0.1	0.2	<1	13.6
Target Range - Lower Bound	<1	3	3.9	<0.2	665	<1	0.3	<1	0.48	18	<0.5	<0.1	<0.1	<1	13.2
Upper Bound	3	7	4.6	0.4	738	2	0.5	2	0.58	30	1.0	0.2	0.3	2	14.9
LB1120	2	5	3.7	<0.2	3050	<1	0.4	<1	0.36	5	<0.5	0.1	0.4	<1	10.7
DUP	2	5	3.7	<0.2	3000	<1	0.4	<1	0.38	13	<0.5	0.1	0.4	<1	10.2
Target Range - Lower Bound	<1	3	3.4	<0.2	2870	<1	0.3	<1	0.33	<5	<0.5	<0.1	0.3	<1	9.8
Upper Bound	3	7	4.0	0.4	3180	2	0.5	2	0.41	10	1.0	0.2	0.5	2	11.1
LB1130	3	5	17.6	<0.2	3840	<1	2.5	<1	0.50	32	<0.5	0.5	3.4	<1	80.1
DUP	3	5	18.7	<0.2	4030	<1	2.6	<1	0.44	23	<0.5	0.5	3.7	<1	85.5
Target Range - Lower Bound	2	3	17.1	<0.2	3740	<1	2.3	<1	0.43	21	<0.5	0.4	3.3	<1	78.6
Upper Bound	4	7	19.2	0.4	4130	2	2.8	2	0.51	34	1.0	0.6	3.8	2	87.0
LB1154	2	4	7.5	<0.2	2730	<1	0.6	<1	0.96	28	<0.5	0.1	0.8	<1	18.1
DUP	2	2	7.2	<0.2	2690	<1	0.5	<1	1.04	21	<0.5	0.1	0.7	<1	17.7
Target Range - Lower Bound	<1	<2	6.9	<0.2	2570	<1	0.4	<1	0.93	18	<0.5	<0.1	0.6	<1	16.9
Upper Bound	3	4	7.8	0.4	2850	2	0.7	2	1.07	31	1.0	0.2	0.9	2	18.9
LB1165	6	7	15.2	<0.2	2120	<1	1.8	<1	4.22	39	<0.5	0.4	7.5	<1	72.3
DUP	5	8	13.8	<0.2	2090	<1	1.6	<1	3.98	34	<0.5	0.3	7.2	<1	63.3
Target Range - Lower Bound	4	5	13.7	<0.2	2000	<1	1.5	<1	3.88	30	<0.5	0.2	6.9	<1	64.3
Upper Bound	7	10	15.3	0.4	2210	2	1.9	2	4.33	43	1.0	0.5	7.8	2	71.3
LB1175	2	3	10.2	<0.2	2090	<1	0.6	<1	1.10	10	<0.5	0.1	0.6	<1	15.8
DUP	2	3	9.9	<0.2	2040	<1	0.6	<1	1.14	14	<0.5	0.1	0.8	<1	15.9
Target Range - Lower Bound	<1	<2	9.4	<0.2	1960	<1	0.5	<1	1.04	6	<0.5	<0.1	0.6	<1	15.0
Upper Bound	3	4	10.7	0.4	2170	2	0.7	2	1.20	18	1.0	0.2	0.8	2	16.7
LB1264	9	10	68.2	<0.2	1060	<1	6.8	<1	30.3	84	<0.5	1.4	23.7	<1	217
DUP	9	11	54.8	<0.2	1320	<1	5.3	<1	28.3	87	<0.5	1.0	23.7	<1	181.0
Target Range - Lower Bound	8	8	58.3	<0.2	1130	<1	5.6	<1	27.8	76	<0.5	1.0	22.4	<1	189.0
Upper Bound	10	13	64.7	0.4	1250	2	6.5	2	30.8	95	1.0	1.4	25.0	2	209
LB1274	4	7	9.2	<0.2	2340	<1	0.9	<1	1.99	20	<0.5	0.2	10.7	<1	34.9
DUP	6	10	9.6	<0.2	2240	<1	0.9	<1	2.11	22	<0.5	0.2	10.2	<1	33.6
Target Range - Lower Bound	4	6	8.8	<0.2	2170	<1	0.8	<1	1.93	15	<0.5	<0.1	9.8	<1	32.4
Upper Bound	6	11	10.0	0.4	2410	2	1.0	2	2.17	27	1.0	0.3	11.1	2	36.1



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Sample Description	Method Analyte Units LOR	ME-MS23 Yb ppb 0.1	ME-MS23 Zn ppb 10	ME-MS23 Zr ppb 0.1	pH-MS23 Final pH Unity 0.1
DUPLICATES					
LB1110		0.5	50	0.5	9.0
DUP		0.5	50	0.6	9.0
Target Range - Lower Bound		0.4	40	0.4	8.5
Upper Bound		0.6	60	0.7	9.6
LB1120		0.3	30	0.7	9.0
DUP		0.3	40	0.6	9.0
Target Range - Lower Bound		0.2	20	0.5	8.5
Upper Bound		0.4	50	0.8	9.6
LB1130		2.7	20	1.2	8.7
DUP		2.7	30	0.6	8.7
Target Range - Lower Bound		2.5	<10	0.8	8.2
Upper Bound		2.9	40	1.0	9.2
LB1154		0.6	30	1.1	9.0
DUP		0.5	30	0.7	9.0
Target Range - Lower Bound		0.4	20	0.8	8.5
Upper Bound		0.7	40	1.0	9.6
LB1165		2.1	100	3.1	9.0
DUP		1.7	90	2.9	9.0
Target Range - Lower Bound		1.7	80	2.8	8.5
Upper Bound		2.1	110	3.3	9.6
LB1175		0.4	60	0.8	9.0
DUP		0.4	60	0.8	9.0
Target Range - Lower Bound		0.3	50	0.7	8.5
Upper Bound		0.5	70	0.9	9.6
LB1264		7.9	40	5.7	9.0
DUP		6.0	50	8.1	9.0
Target Range - Lower Bound		6.5	30	6.5	8.5
Upper Bound		7.4	60	7.3	9.6
LB1274		1.0	70	1.4	9.0
DUP		1.1	70	1.4	9.0
Target Range - Lower Bound		0.9	60	1.2	8.5
Upper Bound		1.2	80	1.6	9.6



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Method Analyte Units LOR	ME-MS23 Ag ppb 0.1	ME-MS23 As ppb 2	ME-MS23 Au ppb 0.02	ME-MS23 Ba ppb 10	ME-MS23 Be ppb 0.2	ME-MS23 Bi ppb 3	ME-MS23 Br ppm 0.05	ME-MS23 Ca ppm 0.2	ME-MS23 Cd ppb 1	ME-MS23 Ce ppb 0.1	ME-MS23 Co ppb 0.3	ME-MS23 Cr ppb 1	ME-MS23 Cs ppb 0.1	ME-MS23 Cu ppb 1	ME-MS23 Dy ppb 0.1
Sample Description															
	DUPLICATES														
LB1284	5.5	2	0.31	1930	<0.2	<3	0.05	804	1	1.9	7.9	1	0.1	1300	1.4
DUP	5.0	<2	0.27	1860	<0.2	<3	<0.05	766	1	1.8	7.8	1	0.1	1240	1.5
Target Range - Lower Bound	4.9	<2	0.26	1790	<0.2	<3	<0.05	746	<1	1.7	7.2	<1	<0.1	1205	1.3
Upper Bound	5.6	4	0.32	2000	0.4	6	0.10	824	2	2.0	8.5	2	0.2	1335	1.6
LB1308	4.0	2	0.04	1350	<0.2	<3	<0.05	500	1	13.2	25.1	2	0.3	657	7.9
DUP	3.9	3	0.06	1300	<0.2	<3	<0.05	449	1	10.5	18.7	1	0.3	626	6.6
Target Range - Lower Bound	3.7	<2	0.03	1250	<0.2	<3	<0.05	451	<1	11.2	20.5	<1	0.2	608	6.8
Upper Bound	4.2	4	0.07	1400	0.4	6	0.10	498	2	12.5	23.3	2	0.4	675	7.7
LB1318	2.2	3	0.05	2600	0.3	<3	<0.05	368	1	35.9	15.1	2	0.3	568	19.3
DUP	2.2	2	0.05	2650	0.3	<3	<0.05	370	1	33.4	12.1	1	0.3	492	14.4
Target Range - Lower Bound	2.0	<2	0.03	2480	<0.2	<3	<0.05	350	<1	32.8	12.6	<1	0.2	503	15.9
Upper Bound	2.4	4	0.07	2770	0.4	6	0.10	388	2	36.5	14.6	2	0.4	558	17.8
LB1328	7.0	<2	0.18	1700	<0.2	<3	<0.05	833	1	3.8	18.6	1	0.1	1570	3.4
DUP	7.3	2	0.22	1780	<0.2	<3	<0.05	787	1	3.6	17.2	<1	0.1	1460	3.0
Target Range - Lower Bound	6.7	<2	0.17	1640	<0.2	<3	<0.05	769	<1	3.4	16.7	<1	<0.1	1440	2.9
Upper Bound	7.6	4	0.23	1840	0.4	6	0.10	851	2	4.0	19.1	2	0.2	1590	3.5
LB1520	8.9	<2	0.33	5530	0.2	<3	0.11	360	1	64.9	29.5	1	0.5	456	52.9
DUP	8.6	<2	0.29	5220	0.3	<3	0.10	408	1	58.7	22.0	1	0.4	415	49.0
Target Range - Lower Bound	8.2	<2	0.27	5100	<0.2	<3	<0.05	365	<1	58.6	24.2	<1	0.3	413	48.3
Upper Bound	9.3	4	0.35	5650	0.4	6	0.16	403	2	65.0	27.3	2	0.6	458	53.6
LB1530	7.2	2	0.08	2470	0.5	<3	<0.05	472	3	20.4	32.6	2	0.3	1490	4.5
DUP	6.2	<2	0.08	2020	0.2	<3	<0.05	431	2	15.5	19.9	1	0.2	1480	6.0
Target Range - Lower Bound	6.3	<2	0.06	2120	<0.2	<3	<0.05	429	<1	17.0	24.6	<1	<0.1	1410	4.9
Upper Bound	7.1	4	0.10	2370	0.4	6	0.10	474	4	18.9	27.9	2	0.4	1560	5.6
LB1540	13.4	<2	0.12	4470	0.4	<3	<0.05	567	1	12.0	28.9	1	0.2	1310	3.1
DUP	12.4	<2	0.12	4050	0.2	<3	<0.05	471	1	10.7	30.3	1	0.1	1430	3.7
Target Range - Lower Bound	12.2	<2	0.09	4040	<0.2	<3	<0.05	493	<1	10.7	27.8	<1	<0.1	1300	3.1
Upper Bound	13.6	4	0.15	4480	0.4	6	0.10	545	2	12.0	31.4	2	0.2	1440	3.7
LB1564	6.0	<2	0.13	4470	0.3	<3	<0.05	346	1	12.7	28.2	1	0.3	952	1.6
DUP	5.9	<2	0.12	4730	<0.2	<3	<0.05	391	1	12.3	27.2	2	0.3	900	1.3
Target Range - Lower Bound	5.6	<2	0.10	4360	<0.2	<3	<0.05	350	<1	11.8	26.0	<1	0.2	879	1.3
Upper Bound	6.3	4	0.15	4840	0.4	6	0.10	387	2	13.2	29.4	2	0.4	973	1.6



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Method Analyte Units LOR	ME-MS23 Er ppb 0.1	ME-MS23 Eu ppb 0.1	ME-MS23 Fe ppm 0.1	ME-MS23 Ga ppb 0.5	ME-MS23 Gd ppb 0.1	ME-MS23 Ge ppb 0.1	ME-MS23 Hf ppb 0.5	ME-MS23 Hg ppb 0.1	ME-MS23 Ho ppb 0.1	ME-MS23 I ppm 0.01	ME-MS23 In ppb 0.1	ME-MS23 La ppb 0.1	ME-MS23 Li ppb 0.2	ME-MS23 Lu ppb 0.1	ME-MS23 Mg ppm 0.01
Sample Description															
<b>DUPLICATES</b>															
LB1284	0.8	1.1	4.8	61.5	2.8	<0.1	<0.5	0.7	0.2	0.02	<0.1	2.2	<0.2	0.1	28.7
DUP	0.8	1.1	3.6	57.7	2.9	<0.1	<0.5	0.5	0.3	0.02	<0.1	2.3	<0.2	0.1	25.8
Target Range - Lower Bound	0.7	0.9	3.9	56.1	2.6	<0.1	<0.5	0.5	<0.1	<0.01	<0.1	2.0	<0.2	<0.1	25.9
Upper Bound	0.9	1.3	4.5	63.1	3.1	0.2	1.0	0.7	0.4	0.03	0.2	2.5	0.4	0.2	28.6
LB1308	3.4	3.1	3.5	37.8	23.2	0.2	<0.5	0.3	1.2	0.02	<0.1	29.6	<0.2	0.2	52.1
DUP	2.9	2.6	3.3	35.7	20.7	0.2	<0.5	0.5	1.0	0.02	<0.1	24.9	<0.2	0.2	48.0
Target Range - Lower Bound	2.9	2.6	3.1	34.4	20.8	<0.1	<0.5	0.3	0.9	<0.01	<0.1	25.8	<0.2	<0.1	47.5
Upper Bound	3.4	3.1	3.7	39.1	23.1	0.3	1.0	0.5	1.3	0.03	0.2	28.7	0.4	0.3	52.6
LB1318	9.5	7.2	3.3	83.9	43.1	0.3	<0.5	0.5	3.3	0.02	<0.1	41.2	<0.2	0.7	50.1
DUP	7.4	5.5	3.0	75.3	36.7	0.3	<0.5	0.5	2.5	0.02	<0.1	39.1	<0.2	0.6	49.8
Target Range - Lower Bound	7.9	5.9	2.9	75.1	37.8	0.2	<0.5	0.4	2.7	<0.01	<0.1	38.0	<0.2	0.5	47.4
Upper Bound	9.0	6.8	3.4	84.1	42.0	0.4	1.0	0.6	3.1	0.03	0.2	42.3	0.4	0.8	52.5
LB1328	1.4	1.8	4.8	51.0	8.5	<0.1	<0.5	0.8	0.5	0.02	<0.1	7.3	<0.2	0.1	37.8
DUP	1.4	1.7	4.7	48.4	7.7	<0.1	<0.5	0.8	0.4	0.02	<0.1	6.6	<0.2	0.1	37.4
Target Range - Lower Bound	1.2	1.6	4.4	46.7	7.6	<0.1	<0.5	0.7	0.3	<0.01	<0.1	6.5	<0.2	<0.1	35.7
Upper Bound	1.6	1.9	5.1	52.7	8.6	0.2	1.0	0.9	0.6	0.03	0.2	7.4	0.4	0.2	39.5
LB1520	22.0	26.8	2.7	180.5	107.5	1.3	0.6	1.0	8.4	0.13	<0.1	219	<0.2	1.9	66.7
DUP	22.5	22.8	2.7	178.5	92.6	1.4	0.7	1.4	8.2	0.11	<0.1	203	<0.2	2.1	76.6
Target Range - Lower Bound	21.0	23.5	2.5	170.0	94.9	1.2	<0.5	1.0	7.8	0.10	<0.1	200	<0.2	1.8	68.1
Upper Bound	23.5	26.1	2.9	189.0	105.0	1.5	1.0	1.4	8.8	0.14	0.2	222	0.4	2.2	75.2
LB1530	2.2	2.9	3.4	63.7	10.8	0.2	<0.5	1.0	0.8	0.02	<0.1	22.5	<0.2	0.2	65.4
DUP	3.1	2.9	3.1	69.3	11.5	0.2	<0.5	1.4	1.1	0.01	<0.1	18.2	<0.2	0.3	58.7
Target Range - Lower Bound	2.4	2.7	3.0	62.7	10.5	<0.1	<0.5	1.0	0.8	<0.01	<0.1	19.2	<0.2	<0.1	58.9
Upper Bound	2.9	3.1	3.5	70.3	11.8	0.3	1.0	1.4	1.1	0.02	0.2	21.5	0.4	0.4	65.2
LB1540	1.6	2.4	2.8	122.5	6.2	0.2	<0.5	1.0	0.5	0.02	<0.1	12.8	<0.2	0.2	65.8
DUP	1.9	2.6	2.7	143.5	7.2	0.2	<0.5	1.2	0.7	0.02	<0.1	11.3	<0.2	0.2	54.8
Target Range - Lower Bound	1.6	2.3	2.5	126.0	6.3	<0.1	<0.5	0.9	0.5	<0.01	<0.1	11.3	<0.2	<0.1	57.3
Upper Bound	1.9	2.7	3.0	140.0	7.1	0.3	1.0	1.3	0.7	0.03	0.2	12.8	0.4	0.3	63.3
LB1564	0.9	1.8	2.5	131.5	3.5	0.1	<0.5	0.4	0.3	0.01	<0.1	6.6	<0.2	0.1	56.2
DUP	0.7	1.7	2.8	119.0	3.0	0.2	<0.5	0.3	0.2	0.02	<0.1	7.0	<0.2	0.1	64.4
Target Range - Lower Bound	0.7	1.6	2.4	118.5	3.0	<0.1	<0.5	0.2	<0.1	<0.01	<0.1	6.4	<0.2	<0.1	57.3
Upper Bound	0.9	1.9	2.9	132.0	3.5	0.2	1.0	0.5	0.4	0.02	0.2	7.2	0.4	0.2	63.3



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Method Analyte Units LOR	ME-MS23 Mn ppm 0.01	ME-MS23 Mo ppb 0.5	ME-MS23 Nb ppb 0.1	ME-MS23 Nd ppb 0.1	ME-MS23 Ni ppb 1	ME-MS23 Pb ppb 1	ME-MS23 Pb 206 ppb 1	ME-MS23 Pb 207 ppb 1	ME-MS23 Pb 208 ppb 1	ME-MS23 Pd ppb 0.1	ME-MS23 Pr ppb 0.1	ME-MS23 Pt ppb 0.1	ME-MS23 Rb ppb 0.1	ME-MS23 Re ppb 0.1	ME-MS23 Sb ppb 0.5
Sample Description															
	DUPLICATES														
LB1284	0.17	2.2	0.1	6.6	162	3	1	1	1	0.2	0.9	<0.1	38.9	<0.1	<0.5
DUP	0.16	1.8	<0.1	6.6	148	3	1	1	1	0.2	0.9	<0.1	34.6	<0.1	<0.5
Target Range - Lower Bound	0.15	1.4	<0.1	6.2	146	2	<1	<1	<1	<0.1	0.8	<0.1	34.8	<0.1	<0.5
Upper Bound	0.18	2.6	0.2	7.0	164	4	2	2	2	0.3	1.0	0.2	38.7	0.2	1.0
LB1308	0.71	10.4	0.1	65.7	232	9	3	2	4	0.4	7.9	<0.1	121.5	<0.1	<0.5
DUP	0.51	15.1	0.1	60.1	226	10	4	2	5	0.4	7.1	<0.1	148.0	<0.1	<0.5
Target Range - Lower Bound	0.57	11.6	<0.1	59.7	217	8	2	<1	3	0.3	7.0	<0.1	128.0	<0.1	<0.5
Upper Bound	0.65	13.9	0.2	66.1	241	11	5	3	6	0.5	8.0	0.2	141.5	0.2	1.0
LB1318	0.53	10.9	0.1	109.0	125	24	7	5	12	0.7	11.6	<0.1	130.0	<0.1	<0.5
DUP	0.43	13.6	0.1	98.4	117	39	11	8	20	0.6	11.6	<0.1	138.5	<0.1	<0.5
Target Range - Lower Bound	0.45	11.1	<0.1	98.4	114	29	8	5	14	0.5	10.9	<0.1	127.5	<0.1	<0.5
Upper Bound	0.51	13.4	0.2	109.0	128	34	10	8	18	0.8	12.3	0.2	141.0	0.2	1.0
LB1328	0.22	2.4	0.1	24.9	268	1	<1	<1	1	0.2	2.8	<0.1	55.0	<0.1	<0.5
DUP	0.24	3.3	0.1	22.9	260	12	3	3	6	0.3	2.7	<0.1	63.0	<0.1	<0.5
Target Range - Lower Bound	0.21	2.2	<0.1	22.6	250	5	<1	<1	2	<0.1	2.5	<0.1	56.0	<0.1	<0.5
Upper Bound	0.25	3.5	0.2	25.2	278	8	3	3	5	0.4	3.0	0.2	62.1	0.2	1.0
LB1520	0.54	5.5	0.1	475	215	93	23	21	48	2.2	73.0	<0.1	58.6	<0.1	<0.5
DUP	0.39	5.5	0.1	400	195	96	22	20	44	2.2	61.3	<0.1	62.7	<0.1	<0.5
Target Range - Lower Bound	0.43	4.7	<0.1	416	194	89	20	18	43	2.0	63.7	<0.1	57.5	<0.1	<0.5
Upper Bound	0.50	6.3	0.2	459	216	100	25	23	49	2.4	70.6	0.2	63.8	0.2	1.0
LB1530	0.61	8.3	<0.1	51.6	446	1	<1	<1	1	0.4	7.4	<0.1	174.5	<0.1	<0.5
DUP	0.41	9.9	0.1	44.3	416	2	1	<1	1	0.4	5.8	<0.1	209	<0.1	<0.5
Target Range - Lower Bound	0.47	8.1	<0.1	45.5	408	<1	<1	<1	<1	0.3	6.2	<0.1	182.0	<0.1	<0.5
Upper Bound	0.55	10.1	0.2	50.4	454	2	2	2	2	0.5	7.0	0.2	201	0.2	1.0
LB1540	0.86	4.5	0.1	27.7	225	2	1	<1	1	0.3	4.2	<0.1	53.4	<0.1	<0.5
DUP	0.84	3.3	<0.1	27.9	236	2	<1	<1	1	0.3	3.8	<0.1	62.4	<0.1	<0.5
Target Range - Lower Bound	0.80	3.2	<0.1	26.3	218	<1	<1	<1	<1	0.2	3.7	<0.1	54.9	<0.1	<0.5
Upper Bound	0.90	4.6	0.2	29.3	243	3	2	2	2	0.4	4.3	0.2	60.9	0.2	1.0
LB1564	0.83	3.0	0.1	16.3	194	5	1	1	2	0.2	2.2	<0.1	46.2	<0.1	<0.5
DUP	0.83	3.1	0.1	16.3	193	4	1	1	2	0.2	2.5	<0.1	37.2	<0.1	<0.5
Target Range - Lower Bound	0.78	2.4	<0.1	15.4	183	3	<1	<1	<1	<0.1	2.1	<0.1	39.5	<0.1	<0.5
Upper Bound	0.88	3.7	0.2	17.2	204	6	2	2	3	0.3	2.6	0.2	43.9	0.2	1.0



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Method Analyte Units LOR	ME-MS23 Sc ppb 1	ME-MS23 Se ppb 2	ME-MS23 Sm ppb 0.1	ME-MS23 Sn ppb 0.2	ME-MS23 Sr ppb 1	ME-MS23 Ta ppb 1	ME-MS23 Tb ppb 0.1	ME-MS23 Te ppb 1	ME-MS23 Th ppb 0.02	ME-MS23 Ti ppb 5	ME-MS23 Tl ppb 0.5	ME-MS23 Tm ppb 0.1	ME-MS23 U ppb 0.1	ME-MS23 W ppb 1	ME-MS23 Y ppb 0.1
Sample Description															
	DUPLICATES														
LB1284	2	6	2.5	<0.2	1730	<1	0.3	1	0.22	10	<0.5	0.1	0.1	<1	12.1
DUP	2	6	2.3	<0.2	1520	<1	0.3	<1	0.21	12	<0.5	0.1	0.2	<1	11.3
Target Range - Lower Bound	<1	4	2.2	<0.2	1545	<1	0.2	<1	0.18	<5	<0.5	<0.1	<0.1	<1	11.0
Upper Bound	3	8	2.6	0.4	1705	2	0.4	2	0.25	17	1.0	0.2	0.2	2	12.4
LB1308	4	7	19.3	<0.2	2580	<1	1.8	<1	6.55	47	<0.5	0.2	3.7	<1	49.7
DUP	3	3	17.0	<0.2	3220	<1	1.5	<1	7.20	30	<0.5	0.2	4.3	<1	56.5
Target Range - Lower Bound	2	3	17.1	<0.2	2750	<1	1.5	<1	6.51	32	<0.5	<0.1	3.7	<1	50.3
Upper Bound	5	7	19.2	0.4	3050	2	1.8	2	7.24	45	1.0	0.3	4.3	2	55.9
LB1318	4	6	34.4	<0.2	2790	<1	3.9	<1	6.06	59	<0.5	0.8	5.5	<1	117.0
DUP	3	2	29.3	<0.2	3080	<1	2.9	<1	7.04	38	<0.5	0.6	6.7	<1	125.0
Target Range - Lower Bound	2	<2	30.2	<0.2	2790	<1	3.1	<1	6.20	41	<0.5	0.6	5.7	<1	115.0
Upper Bound	5	6	33.5	0.4	3080	2	3.7	2	6.90	56	1.0	0.8	6.5	2	127.0
LB1328	1	6	7.4	<0.2	1910	<1	0.7	<1	0.42	12	<0.5	0.1	0.2	<1	19.9
DUP	1	<2	7.1	<0.2	2310	<1	0.6	<1	0.52	13	<0.5	0.1	0.3	<1	25.0
Target Range - Lower Bound	<1	<2	6.8	<0.2	2000	<1	0.5	<1	0.43	7	<0.5	<0.1	<0.1	<1	21.2
Upper Bound	2	6	7.7	0.4	2220	2	0.8	2	0.51	18	1.0	0.2	0.4	2	23.7
LB1520	9	15	111.5	<0.2	5840	<1	11.2	<1	48.9	30	<0.5	2.2	39.2	<1	318
DUP	8	16	93.3	<0.2	6220	<1	10.0	<1	46.2	31	<0.5	2.3	38.0	<1	345
Target Range - Lower Bound	7	13	97.2	<0.2	5730	<1	10.0	<1	45.2	24	<0.5	2.0	36.6	<1	315
Upper Bound	10	18	107.5	0.4	6330	2	11.2	2	49.9	37	1.0	2.5	40.6	2	348
LB1530	8	4	10.2	<0.2	2300	<1	1.0	<1	2.27	49	<0.5	0.2	6.2	<1	31.0
DUP	6	6	10.0	<0.2	2730	<1	1.2	<1	1.95	29	<0.5	0.3	5.6	<1	43.5
Target Range - Lower Bound	6	3	9.5	<0.2	2390	<1	0.9	<1	1.98	32	<0.5	<0.1	5.5	<1	35.3
Upper Bound	8	7	10.7	0.4	2640	2	1.3	2	2.24	46	1.0	0.4	6.3	2	39.2
LB1540	3	5	6.0	<0.2	2460	<1	0.6	1	1.33	31	<0.5	0.2	1.1	<1	25.2
DUP	2	3	6.5	<0.2	2770	<1	0.7	<1	1.05	20	<0.5	0.2	0.9	<1	29.4
Target Range - Lower Bound	<1	<2	5.8	<0.2	2480	<1	0.5	<1	1.11	19	<0.5	<0.1	0.9	<1	25.8
Upper Bound	4	6	6.7	0.4	2750	2	0.8	2	1.27	32	1.0	0.3	1.2	2	28.8
LB1564	3	4	3.4	<0.2	2900	<1	0.3	<1	1.22	47	<0.5	0.1	1.6	1	10.8
DUP	4	2	3.1	<0.2	2420	<1	0.3	<1	1.21	43	<0.5	0.1	1.6	<1	9.1
Target Range - Lower Bound	2	<2	3.0	<0.2	2530	<1	0.2	<1	1.13	38	<0.5	<0.1	1.4	<1	9.4
Upper Bound	5	4	3.5	0.4	2790	2	0.4	2	1.30	52	1.0	0.2	1.8	2	10.5



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Sample Description	Method Analyte Units LOR	ME-MS23 Yb ppb 0.1	ME-MS23 Zn ppb 10	ME-MS23 Zr ppb 0.1	pH-MS23 Final pH Unity 0.1
DUPLICATES					
LB1284		0.5	40	0.3	9.0
DUP		0.5	40	0.3	9.0
Target Range - Lower Bound		0.4	30	0.2	8.5
Upper Bound		0.6	50	0.4	9.6
LB1308		1.4	40	3.9	9.0
DUP		1.3	40	3.3	9.0
Target Range - Lower Bound		1.2	30	3.3	8.5
Upper Bound		1.5	50	3.9	9.6
LB1318		4.3	40	2.8	9.0
DUP		3.5	40	3.5	9.0
Target Range - Lower Bound		3.6	30	2.9	8.5
Upper Bound		4.2	50	3.4	9.6
LB1328		0.7	40	0.4	9.0
DUP		0.7	40	0.7	9.0
Target Range - Lower Bound		0.6	30	0.4	8.5
Upper Bound		0.8	50	0.7	9.6
LB1520		12.4	20	9.0	9.0
DUP		13.5	20	11.1	9.0
Target Range - Lower Bound		12.2	<10	9.4	8.5
Upper Bound		13.7	30	10.7	9.6
LB1530		1.2	30	3.1	9.0
DUP		1.8	40	3.9	9.0
Target Range - Lower Bound		1.3	20	3.2	8.5
Upper Bound		1.7	50	3.8	9.6
LB1540		1.2	60	1.4	9.0
DUP		1.4	70	1.3	9.0
Target Range - Lower Bound		1.1	50	1.2	8.5
Upper Bound		1.5	80	1.5	9.6
LB1564		0.5	50	1.6	9.0
DUP		0.4	50	1.4	9.0
Target Range - Lower Bound		0.3	40	1.3	8.5
Upper Bound		0.6	60	1.7	9.6





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Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
		Ag	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy
		ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb
		0.1	2	0.02	10	0.2	3	0.05	0.2	1	0.1	0.3	1	0.1	1	0.1
		DUPLICATES														
LB1574		5.5	3	0.09	1760	0.2	<3	0.10	529	2	12.8	18.6	1	0.4	1150	2.0
DUP		6.7	<2	0.07	1810	<0.2	<3	0.10	590	3	13.2	17.9	1	0.5	974	1.6
Target Range - Lower Bound		5.7	<2	0.06	1690	<0.2	<3	<0.05	531	<1	12.3	17.0	<1	0.3	1010	1.6
Upper Bound		6.5	4	0.10	1880	0.4	6	0.16	588	4	13.8	19.5	2	0.6	1115	2.0
LB1584		10.7	2	0.29	7730	0.4	<3	<0.05	228	1	71.5	51.0	13	0.4	1460	11.3
DUP		14.1	3	0.32	8360	0.2	<3	<0.05	275	1	70.6	56.9	5	0.5	1330	9.7
Target Range - Lower Bound		11.7	<2	0.27	7630	<0.2	<3	<0.05	239	<1	67.4	51.0	8	0.3	1325	9.9
Upper Bound		13.1	4	0.34	8460	0.4	6	0.10	264	2	74.7	56.9	10	0.6	1465	11.1
LB1608		6.2	2	0.14	4360	<0.2	<3	<0.05	282	2	28.8	45.6	2	0.4	1390	4.8
DUP		6.1	2	0.14	3920	<0.2	<3	<0.05	244	2	24.7	31.9	1	0.3	1340	4.0
Target Range - Lower Bound		5.7	<2	0.11	3920	<0.2	<3	<0.05	250	<1	25.3	36.5	<1	0.2	1295	4.1
Upper Bound		6.6	4	0.17	4360	0.4	6	0.10	276	3	28.2	41.0	2	0.5	1435	4.7
LB1808		11.4	<2	0.43	3700	0.3	<3	<0.05	769	1	2.2	13.5	<1	0.1	3870	2.5
DUP		10.2	<2	0.29	3860	0.5	<3	<0.05	826	1	2.3	19.8	<1	0.1	4360	3.2
Target Range - Lower Bound		10.2	<2	0.32	3580	<0.2	<3	<0.05	757	<1	2.0	15.5	<1	<0.1	3910	2.6
Upper Bound		11.4	4	0.40	3980	0.6	6	0.10	838	2	2.5	17.8	2	0.2	4320	3.1



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		Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	In	La	Li	Lu	Mg
		ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm
		0.1	0.1	0.1	0.5	0.1	0.1	0.5	0.1	0.1	0.01	0.1	0.1	0.2	0.1	0.01
		DUPLICATES														
LB1574		1.0	1.3	3.6	51.1	4.0	0.2	<0.5	0.3	0.3	0.02	<0.1	4.4	<0.2	0.1	44.4
DUP		0.8	1.1	3.4	42.9	3.4	0.2	<0.5	0.7	0.3	0.03	<0.1	5.0	<0.2	0.1	50.7
Target Range - Lower Bound		0.8	1.0	3.2	44.2	3.4	<0.1	<0.5	0.4	0.2	<0.01	<0.1	4.4	<0.2	<0.1	45.2
Upper Bound		1.0	1.4	3.8	49.9	4.0	0.3	1.0	0.6	0.4	0.04	0.2	5.0	0.4	0.2	49.9
LB1584		5.9	9.6	4.9	251	30.7	0.7	<0.5	0.6	2.0	0.03	<0.1	97.1	0.4	0.6	64.1
DUP		5.1	8.7	4.7	206	26.8	0.5	<0.5	0.4	1.6	0.04	<0.1	101.5	0.7	0.5	80.2
Target Range - Lower Bound		5.1	8.6	4.5	217	27.2	0.5	<0.5	0.4	1.6	0.02	<0.1	94.2	0.3	0.4	68.5
Upper Bound		5.9	9.7	5.1	240	30.3	0.7	1.0	0.6	2.0	0.05	0.2	104.5	0.8	0.7	75.8
LB1608		2.5	3.1	3.3	132.0	10.0	0.2	<0.5	0.6	0.9	0.03	<0.1	17.1	<0.2	0.2	53.7
DUP		2.2	2.8	3.0	134.0	8.8	0.2	<0.5	0.9	0.8	0.02	<0.1	15.1	<0.2	0.2	46.8
Target Range - Lower Bound		2.1	2.7	2.9	126.0	8.8	<0.1	<0.5	0.6	0.7	<0.01	<0.1	15.2	<0.2	<0.1	47.7
Upper Bound		2.6	3.2	3.4	140.0	10.0	0.3	1.0	0.9	1.0	0.04	0.2	17.0	0.4	0.3	52.8
LB1808		1.2	1.9	5.0	123.0	5.8	<0.1	<0.5	1.2	0.4	0.02	<0.1	7.3	<0.2	0.1	57.5
DUP		1.4	2.3	5.4	131.5	7.2	<0.1	<0.5	1.0	0.5	0.02	<0.1	7.9	<0.2	0.1	58.1
Target Range - Lower Bound		1.1	1.9	4.8	120.5	6.1	<0.1	<0.5	0.9	0.3	<0.01	<0.1	7.1	<0.2	<0.1	54.9
Upper Bound		1.5	2.3	5.6	134.0	6.9	0.2	1.0	1.3	0.6	0.03	0.2	8.1	0.4	0.2	60.7



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		Mn	Mo	Nb	Nd	Ni	Pb	Pb 206	Pb 207	Pb 208	Pd	Pr	Pt	Rb	Re	Sb
		ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
		0.01	0.5	0.1	0.1	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.5
		DUPLICATES														
LB1574		0.72	3.2	<0.1	14.8	190	1	<1	<1	<1	0.1	1.8	<0.1	92.8	<0.1	<0.5
DUP		0.69	4.6	0.1	14.1	165	2	<1	<1	1	0.1	2.0	<0.1	94.8	<0.1	<0.5
Target Range - Lower Bound		0.66	3.2	<0.1	13.6	168	<1	<1	<1	<1	<0.1	1.7	<0.1	89.0	<0.1	<0.5
Upper Bound		0.75	4.6	0.2	15.3	187	2	2	2	2	0.2	2.1	0.2	98.6	0.2	1.0
LB1584		0.99	4.2	0.2	224	304	8	2	2	5	0.7	33.5	<0.1	83.9	<0.1	<0.5
DUP		1.10	5.3	0.2	210	289	12	3	2	7	0.8	32.5	<0.1	80.6	<0.1	<0.5
Target Range - Lower Bound		0.98	4.0	<0.1	206	281	9	<1	<1	5	0.6	31.3	<0.1	78.0	<0.1	<0.5
Upper Bound		1.11	5.5	0.3	228	312	12	4	3	7	0.9	34.8	0.2	86.5	0.2	1.0
LB1608		1.53	10.2	0.1	40.7	279	10	2	2	4	0.3	5.3	<0.1	50.8	<0.1	<0.5
DUP		1.06	11.8	0.1	35.6	252	6	2	1	3	0.3	4.8	<0.1	60.9	<0.1	<0.5
Target Range - Lower Bound		1.22	10.0	<0.1	36.1	251	7	<1	<1	2	0.2	4.7	<0.1	53.0	<0.1	<0.5
Upper Bound		1.37	12.1	0.2	40.2	280	9	3	2	5	0.4	5.4	0.2	58.7	0.2	1.0
LB1808		0.13	2.3	0.1	18.9	240	1	<1	<1	1	0.2	2.3	0.1	65.7	<0.1	<0.5
DUP		0.19	1.9	<0.1	22.0	271	<1	<1	<1	<1	0.4	2.6	0.1	58.8	<0.1	<0.5
Target Range - Lower Bound		0.14	1.5	<0.1	19.3	242	<1	<1	<1	<1	0.2	2.2	<0.1	59.0	<0.1	<0.5
Upper Bound		0.18	2.7	0.2	21.6	269	2	2	2	2	0.4	2.7	0.2	65.5	0.2	1.0



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## QC CERTIFICATE OF ANALYSIS AS12150273

Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
		Sc	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U	W	Y
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
		1	2	0.1	0.2	1	1	0.1	1	0.02	5	0.5	0.1	0.1	1	0.1
		DUPLICATES														
LB1574		3	6	3.6	<0.2	2710	<1	0.4	<1	0.66	30	<0.5	0.1	1.0	<1	11.3
DUP		4	4	3.3	<0.2	2890	<1	0.3	<1	0.82	33	<0.5	0.1	1.3	<1	14.1
Target Range - Lower Bound		2	3	3.2	<0.2	2660	<1	0.2	<1	0.68	25	<0.5	<0.1	1.0	<1	12.0
Upper Bound		5	7	3.7	0.4	2940	2	0.5	2	0.80	38	1.0	0.2	1.3	2	13.4
LB1584		15	6	34.6	<0.2	1740	<1	2.6	<1	16.70	116	<0.5	0.6	22.7	<1	73.2
DUP		17	4	32.6	<0.2	1690	<1	2.3	<1	20.8	111	<0.5	0.5	28.9	<1	74.4
Target Range - Lower Bound		14	3	31.8	<0.2	1630	<1	2.2	<1	17.80	103	<0.5	0.4	24.4	<1	70.0
Upper Bound		18	7	35.4	0.4	1800	2	2.7	2	19.70	124	1.0	0.7	27.2	2	77.6
LB1608		6	10	9.3	<0.2	1570	<1	1.0	<1	3.55	50	<0.5	0.2	7.7	<1	37.1
DUP		6	11	7.8	<0.2	1880	<1	0.9	<1	3.60	49	<0.5	0.2	7.4	<1	36.9
Target Range - Lower Bound		5	8	8.0	<0.2	1640	<1	0.8	<1	3.38	42	<0.5	<0.1	7.1	<1	35.1
Upper Bound		7	13	9.1	0.4	1810	2	1.1	2	3.77	57	1.0	0.3	8.0	2	39.0
LB1808		2	6	5.5	<0.2	2460	<1	0.6	<1	0.44	10	<0.5	0.1	0.6	<1	24.2
DUP		2	6	6.7	<0.2	2130	<1	0.7	<1	0.38	9	<0.5	0.1	0.5	<1	23.6
Target Range - Lower Bound		<1	4	5.7	<0.2	2180	<1	0.5	<1	0.37	<5	<0.5	<0.1	0.4	<1	22.6
Upper Bound		3	8	6.5	0.4	2410	2	0.8	2	0.45	10	1.0	0.2	0.7	2	25.2



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QC CERTIFICATE OF ANALYSIS AS12150273

Sample Description	Method Analyte Units LOR	ME-MS23 Yb ppb 0.1	ME-MS23 Zn ppb 10	ME-MS23 Zr ppb 0.1	pH-MS23 Final pH Unity 0.1
DUPLICATES					
LB1574		0.6	160	0.8	9.0
DUP		0.5	130	1.0	9.0
Target Range - Lower Bound		0.4	130	0.8	8.5
Upper Bound		0.7	160	1.0	9.6
LB1584		3.6	40	5.5	9.0
DUP		3.0	40	6.0	9.0
Target Range - Lower Bound		3.0	30	5.4	8.5
Upper Bound		3.6	50	6.1	9.6
LB1608		1.4	70	2.1	9.0
DUP		1.3	80	2.4	9.0
Target Range - Lower Bound		1.2	60	2.0	8.5
Upper Bound		1.5	90	2.5	9.6
LB1808		0.6	20	0.4	9.0
DUP		0.7	20	0.2	9.0
Target Range - Lower Bound		0.5	<10	0.2	8.5
Upper Bound		0.8	30	0.4	9.6