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Finalized Date: 14-MAR-2012
Account: WEDES

QC CERTIFICATE AS12028069

Project: Limbla

P.O. No.: LI121402

This report is for 195 Soil samples submitted to our lab in Alice Springs, NT, Australia on 14-FEB-2012.

The following have access to data associated with this certificate:

ANDY BENNETT

CHRIS GAUGHAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
LOG-24	Pulp 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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QC CERTIFICATE OF ANALYSIS AS12028069

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	18.6	10	8.39	180	<0.2	<3	1.57	164.0	65	15.9	63.9	3	7.6	788	1.5
ION-SRM18	18.4	10	6.96	220	0.3	<3	1.53	158.0	62	15.2	58.0	2	7.6	801	1.3
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
ION-SRM18	18.5	10	8.21	190	<0.2	<3	1.60	166.0	72	13.9	65.2	5	7.8	807	1.4
ION-SRM18	15.0	8	6.24	210	<0.2	<3	1.45	151.5	65	14.0	55.5	4	6.6	644	1.3
ION-SRM18	18.7	11	7.83	240	0.2	<3	1.52	163.5	90	16.4	64.0	7	8.1	765	1.6
ION-SRM18	13.2	10	4.76	240	0.3	<3	1.24	132.5	65	15.1	40.8	6	6.4	624	1.4
ION-SRM18	13.9	8	7.05	200	0.4	<3	1.23	145.0	59	15.9	46.3	6	6.8	642	1.2
ION-SRM18	17.5	10	7.73	190	0.2	<3	1.51	166.5	69	16.5	63.9	7	7.9	847	1.3
ION-SRM18	17.0	11	6.32	210	<0.2	<3	1.33	155.0	60	14.4	58.6	6	6.9	726	1.2
ION-SRM18	18.8	11	8.11	200	<0.2	<3	1.47	167.0	68	15.9	64.3	7	7.6	824	1.3
ION-SRM18	22.9	12	9.74	190	<0.2	<3	1.56	170.0	78	15.1	67.3	6	8.0	931	1.5
ION-SRM18	16.7	9	6.98	200	<0.2	<3	1.33	141.0	61	15.7	54.0	6	6.8	719	1.4
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	1.1	<3	<0.05	<0.2	<1	<0.1	<0.3	2	<0.1	2	<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
BLANK	<0.1	<2	<0.02	<10	0.4	<3	<0.05	<0.2	<1	<0.1	<0.3	<1	<0.1	1	<0.1
BLANK	<0.1	3	<0.02	10	0.4	<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	6	<0.1	2	<0.1
BLANK	0.1	<2	<0.02	<10	0.4	<3	<0.05	0.2	<1	0.1	<0.3	1	<0.1	1	<0.1
BLANK	<0.1	<2	0.03	<10	0.2	<3	<0.05	<0.2	<1	<0.1	<0.3	<1	<0.1	2	<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	0.9	0.9	2.5	4.4	3.2	0.1	<0.5	4.5	0.4	0.16	<0.1	5.4	<0.2	<0.1	75.4
ION-SRM18	0.8	0.8	2.3	6.4	2.8	<0.1	<0.5	4.1	0.3	0.15	<0.1	5.4	<0.2	<0.1	73.9
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
ION-SRM18	0.7	0.8	2.4	4.6	2.9	0.1	<0.5	3.4	0.3	0.16	<0.1	4.6	0.3	0.1	77.7
ION-SRM18	0.7	0.9	2.3	5.4	3.2	0.1	<0.5	4.2	0.3	0.15	<0.1	4.5	0.3	0.1	68.2
ION-SRM18	0.9	0.9	2.6	6.3	3.3	<0.1	<0.5	4.5	0.4	0.16	<0.1	6.1	0.3	0.1	77.0
ION-SRM18	0.8	0.8	2.2	6.7	2.8	<0.1	<0.5	4.4	0.3	0.13	<0.1	6.1	<0.2	0.1	58.7
ION-SRM18	0.7	0.8	2.1	5.1	2.8	0.1	<0.5	3.9	0.3	0.14	<0.1	5.1	0.4	<0.1	64.7
ION-SRM18	0.7	0.9	2.6	5.6	3.2	0.1	<0.5	3.9	0.3	0.16	<0.1	5.5	0.4	<0.1	78.7
ION-SRM18	0.6	0.9	2.2	5.1	2.8	0.1	<0.5	4.0	0.3	0.15	<0.1	4.5	0.3	<0.1	75.1
ION-SRM18	0.8	1.0	2.6	5.4	3.2	<0.1	<0.5	4.1	0.3	0.16	<0.1	5.5	0.4	0.1	77.2
ION-SRM18	0.9	1.0	2.5	4.5	3.2	<0.1	<0.5	4.3	0.4	0.16	<0.1	5.2	0.2	0.1	80.0
ION-SRM18	0.9	1.0	2.2	5.2	3.2	<0.1	<0.5	4.2	0.4	0.13	<0.1	5.3	0.2	0.1	67.2
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	0.8	<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
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	0.2	<0.5	0.1	<0.1	<0.01	<0.1	<0.1	11.5	<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	0.2	<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	ME-MS23	
		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	ppb
		0.01	0.5	0.1	0.1	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
STANDARDS																	
ION-SRM18		0.46	31.2	<0.1	13.6	582	93	22	22	48	12.7	2.3	5.6	175.0	<0.1	<0.5	
ION-SRM18		0.42	29.8	<0.1	12.5	549	82	19	19	43	11.8	2.1	5.1	177.5	<0.1	<0.5	
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	<0.5	
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	1.1	
ION-SRM18		0.49	30.8	0.1	13.0	599	95	22	22	50	13.0	2.0	5.4	169.0	<0.1	<0.5	
ION-SRM18		0.45	28.5	<0.1	13.6	489	82	18	20	43	9.5	2.1	4.3	167.5	<0.1	<0.5	
ION-SRM18		0.51	35.3	0.1	14.0	586	93	21	22	50	12.5	2.1	5.9	187.5	<0.1	<0.5	
ION-SRM18		0.43	27.5	<0.1	12.7	436	85	19	20	46	7.9	2.1	4.3	154.5	<0.1	<0.5	
ION-SRM18		0.42	26.6	<0.1	11.5	409	82	18	17	46	9.5	1.9	4.6	163.0	<0.1	<0.5	
ION-SRM18		0.51	32.6	0.1	13.4	565	208	47	47	111	12.3	2.0	5.8	185.0	<0.1	<0.5	
ION-SRM18		0.42	28.3	<0.1	11.5	537	80	19	19	42	11.1	1.8	4.9	175.0	<0.1	<0.5	
ION-SRM18		0.46	32.7	0.1	12.5	582	92	21	21	49	13.1	2.0	5.8	185.0	<0.1	<0.5	
ION-SRM18		0.52	36.6	0.1	12.0	590	122	28	28	65	15.5	2.2	6.7	176.5	<0.1	<0.5	
ION-SRM18		0.47	28.0	<0.1	12.5	480	89	20	20	48	10.7	2.3	4.8	169.0	<0.1	<0.5	
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	<0.5	
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	1.1	
BLANKS																	
BLANK		<0.01	<0.5	<0.1	<0.1	<1	5	1	1	3	<0.1	<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	<0.1	<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	0.2	1.0	
BLANK		<0.01	<0.5	<0.1	<0.1	<1	3	1	1	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	
BLANK		<0.01	<0.5	<0.1	<0.1	1	11	3	2	6	<0.1	<0.1	<0.1	0.2	<0.1	<0.5	
BLANK		<0.01	<0.5	<0.1	<0.1	<1	12	3	3	7	<0.1	<0.1	<0.1	0.1	<0.1	<0.5	
BLANK		<0.01	<0.5	<0.1	<0.1	1	15	4	3	8	<0.1	<0.1	<0.1	0.1	<0.1	<0.5	
BLANK		<0.01	<0.5	<0.1	0.1	<1	16	4	4	9	<0.1	<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	<0.1	<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	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	2	16	3.2	<0.2	1030	<1	0.5	<1	3.69	6	<0.5	0.1	10.8	<1	9.6
ION-SRM18	2	15	2.9	<0.2	1370	<1	0.5	<1	3.23	5	<0.5	0.1	9.9	<1	9.3
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
ION-SRM18	2	23	2.8	<0.2	1040	<1	0.5	<1	3.54	24	<0.5	0.1	9.9	<1	9.2
ION-SRM18	2	19	2.9	<0.2	1220	<1	0.5	<1	3.48	12	<0.5	0.1	9.2	<1	9.3
ION-SRM18	3	25	3.1	<0.2	1280	<1	0.6	<1	3.76	18	<0.5	0.1	10.3	<1	10.0
ION-SRM18	2	21	2.7	<0.2	1020	<1	0.5	<1	3.43	13	<0.5	0.1	8.4	<1	8.4
ION-SRM18	2	16	2.5	<0.2	1110	<1	0.4	<1	3.43	10	<0.5	0.1	9.0	<1	8.3
ION-SRM18	3	16	3.0	<0.2	1200	<1	0.5	<1	3.37	15	<0.5	0.1	10.0	<1	9.0
ION-SRM18	2	19	2.6	<0.2	1050	<1	0.4	1	3.15	14	<0.5	0.1	9.1	<1	9.1
ION-SRM18	3	20	2.8	<0.2	1250	<1	0.5	<1	3.52	28	<0.5	0.1	10.7	<1	10.5
ION-SRM18	3	13	3.0	<0.2	1040	<1	0.6	<1	3.59	24	<0.5	0.1	10.6	<1	9.6
ION-SRM18	3	12	2.9	<0.2	1340	<1	0.6	<1	3.23	7	<0.5	0.1	8.9	<1	9.0
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
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
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	<0.02	<5	<0.5	<0.1	<0.1	<1	<0.1
BLANK	<1	4	<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	<0.02	<5	<0.5	<0.1	<0.1	<1	0.1
BLANK	<1	<2	<0.1	<0.2	<1	<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
STANDARDS					
ION-SRM18		0.5	610	5.1	
ION-SRM18		0.4	590	4.9	
Target Range - Lower Bound		<0.1	530	4.3	
Upper Bound		0.5	670	5.5	
ION-SRM18		0.3	650	4.7	9.0
ION-SRM18		0.4	550	4.7	9.0
ION-SRM18		0.4	630	5.1	9.0
ION-SRM18		0.4	530	4.5	9.0
ION-SRM18		0.3	430	4.6	9.0
ION-SRM18		0.4	600	5.4	9.0
ION-SRM18		0.4	650	4.4	9.0
ION-SRM18		0.4	610	5.3	9.0
ION-SRM18		0.4	710	5.5	9.0
ION-SRM18		0.4	560	5.0	9.0
Target Range - Lower Bound		<0.1	530	4.3	
Upper Bound		0.5	670	5.5	
BLANKS					
BLANK		<0.1	20	<0.1	
Target Range - Lower Bound		<0.1	<10	<0.1	
Upper Bound		0.2	20	0.2	
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	<0.1	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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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																	
LB1012		4.7	<2	0.03	910	<0.2	<3	<0.05	126.5	1	45.5	65.3	3	0.8	631	6.5	
DUP		4.4	<2	0.05	800	1.2	<3	<0.05	98.5	1	48.0	56.8	5	0.8	652	7.4	
Target Range - Lower Bound		4.2	<2	<0.02	800	0.5	<3	<0.05	106.5	<1	44.3	57.7	3	0.7	608	6.5	
Upper Bound		4.9	4	0.06	910	0.9	6	0.10	118.5	2	49.2	64.4	5	0.9	675	7.4	
LB1024		6.7	<2	1.53	2970	0.3	<3	0.09	317	1	10.9	166.0	2	0.6	1440	10.5	
DUP		7.4	<2	1.71	3500	0.8	<3	0.09	369	2	10.4	196.0	2	0.6	1620	14.2	
Target Range - Lower Bound		6.6	<2	1.52	3060	0.3	<3	<0.05	326	<1	10.0	171.5	<1	0.5	1455	11.6	
Upper Bound		7.5	4	1.72	3410	0.8	6	0.10	360	2	11.3	190.5	3	0.7	1610	13.1	
LB1034		6.0	2	0.17	1790	1.1	<3	0.10	562	1	17.7	190.0	<1	0.4	1020	9.7	
DUP		8.3	3	0.17	2190	0.6	<3	0.14	774	2	13.9	224	3	0.5	1380	9.8	
Target Range - Lower Bound		6.7	<2	0.14	1880	0.6	<3	0.06	634	<1	14.9	196.5	<1	0.3	1140	9.2	
Upper Bound		7.6	4	0.20	2100	1.1	6	0.18	702	2	16.7	218	3	0.6	1260	10.3	
LB1058		8.5	2	0.34	2500	1.1	<3	0.06	456	1	4.8	61.1	1	1.0	1310	34.9	
DUP		11.1	<2	0.33	2740	0.5	<3	0.06	556	2	3.8	73.0	1	1.1	1540	44.0	
Target Range - Lower Bound		9.2	<2	0.30	2480	0.6	<3	<0.05	481	<1	4.0	63.4	<1	0.9	1355	37.4	
Upper Bound		10.4	4	0.37	2760	1.0	6	0.10	532	2	4.6	70.7	2	1.2	1495	41.5	
LB1068		2.9	<2	0.02	1150	1.6	<3	0.07	239	1	60.2	129.5	2	1.9	767	22.3	
DUP		2.6	4	0.03	970	0.2	<3	0.06	195.5	1	68.6	127.0	2	1.8	689	19.2	
Target Range - Lower Bound		2.5	<2	<0.02	1000	0.7	<3	<0.05	206	<1	61.1	121.5	<1	1.7	691	19.6	
Upper Bound		3.0	4	0.04	1120	1.1	6	0.10	228	2	67.7	135.0	3	2.0	765	21.9	
LB1078		24.0	4	0.30	3360	0.4	<3	0.06	669	1	78.1	98.0	1	1.0	1220	33.6	
DUP		22.9	5	0.34	3280	0.8	<3	0.06	630	1	85.8	95.9	2	1.0	1190	34.6	
Target Range - Lower Bound		22.2	<2	0.28	3140	0.4	<3	<0.05	617	<1	77.8	91.8	<1	0.9	1145	32.3	
Upper Bound		24.7	7	0.36	3500	0.8	6	0.10	682	2	86.1	102.0	2	1.2	1265	35.9	
LB1230		6.7	<2	0.51	7090	0.6	<3	<0.05	362	<1	8.2	77.8	5	0.3	1030	4.8	
DUP		10.9	3	1.03	13900	0.2	<3	0.06	848	1	3.1	125.5	3	0.3	1910	5.4	
Target Range - Lower Bound		8.3	<2	0.71	9960	<0.2	<3	<0.05	575	<1	5.3	96.3	3	0.2	1395	4.7	
Upper Bound		9.3	4	0.83	11050	0.6	6	0.10	635	2	6.0	107.0	5	0.4	1545	5.5	
LB1240		6.2	3	0.77	1750	0.6	<3	<0.05	139.0	1	59.7	57.3	8	1.1	1580	25.7	
DUP		9.4	2	0.93	2040	0.5	<3	0.05	218	2	41.4	84.9	6	1.0	2350	28.3	
Target Range - Lower Bound		7.3	<2	0.79	1790	0.3	<3	<0.05	169.5	<1	47.9	67.2	6	0.9	1865	25.6	
Upper Bound		8.3	4	0.91	2000	0.8	6	0.10	187.5	2	53.2	75.0	8	1.2	2060	28.5	



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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															
DUPLICATES															
LB1012	4.5	3.8	2.5	23.2	13.5	0.2	<0.5	0.3	1.7	0.01	<0.1	26.0	0.4	0.4	19.90
DUP	5.3	4.1	2.4	22.9	14.3	0.3	<0.5	0.3	2.1	0.01	<0.1	26.7	0.7	0.6	13.15
Target Range - Lower Bound	4.6	3.7	2.2	21.4	13.1	<0.1	<0.5	0.2	1.7	<0.01	<0.1	24.9	0.3	0.4	15.70
Upper Bound	5.2	4.2	2.7	24.7	14.7	0.4	1.0	0.4	2.1	0.02	0.2	27.8	0.8	0.6	17.35
LB1024	7.4	6.2	3.3	81.3	20.6	0.3	<0.5	0.6	2.9	0.04	<0.1	16.7	0.6	0.8	66.8
DUP	9.9	7.5	3.4	91.9	25.6	0.4	<0.5	0.6	4.1	0.04	<0.1	14.9	0.5	1.1	75.2
Target Range - Lower Bound	8.1	6.4	3.1	81.8	21.8	0.2	<0.5	0.5	3.2	0.03	<0.1	14.9	0.3	0.8	67.4
Upper Bound	9.2	7.3	3.6	91.4	24.4	0.5	1.0	0.7	3.8	0.05	0.2	16.7	0.8	1.1	74.6
LB1034	6.8	4.1	3.9	47.2	17.7	0.3	<0.5	0.6	2.7	0.04	<0.1	11.9	1.1	0.6	41.4
DUP	6.6	4.0	5.3	68.1	17.9	0.2	<0.5	0.7	2.7	0.06	<0.1	9.6	1.0	0.6	55.7
Target Range - Lower Bound	6.3	3.7	4.3	54.3	16.8	<0.1	<0.5	0.5	2.5	0.04	<0.1	10.1	0.8	0.5	46.1
Upper Bound	7.1	4.4	4.9	61.0	18.8	0.4	1.0	0.8	2.9	0.06	0.2	11.4	1.3	0.7	51.0
LB1058	25.1	16.5	4.0	67.8	56.3	0.6	<0.5	1.6	9.0	0.05	<0.1	45.2	0.2	2.1	69.9
DUP	32.3	18.5	4.6	77.9	64.9	0.6	0.5	2.0	11.7	0.06	<0.1	38.4	1.8	2.7	86.2
Target Range - Lower Bound	27.2	16.5	4.0	68.7	57.5	0.5	<0.5	1.6	9.7	0.04	<0.1	39.6	0.8	2.2	74.1
Upper Bound	30.2	18.5	4.6	77.0	63.7	0.7	1.0	2.0	11.0	0.07	0.2	44.0	1.3	2.6	82.0
LB1068	17.4	14.0	3.0	33.4	39.9	0.7	<0.5	0.5	6.0	0.06	<0.1	102.5	0.4	1.7	32.6
DUP	14.8	13.8	2.7	29.3	39.2	0.8	<0.5	0.5	5.0	0.05	<0.1	112.0	0.4	1.3	23.9
Target Range - Lower Bound	15.2	13.1	2.6	29.3	37.5	0.6	<0.5	0.4	5.1	0.04	<0.1	102.0	<0.2	1.3	26.8
Upper Bound	17.0	14.7	3.1	33.4	41.6	0.9	1.0	0.6	5.9	0.07	0.2	112.5	0.6	1.7	29.7
LB1078	21.4	14.1	5.5	98.8	52.8	0.6	0.6	0.4	8.2	0.03	<0.1	115.5	<0.2	1.3	91.0
DUP	22.8	14.6	5.5	99.3	55.1	0.7	0.6	0.4	8.7	0.03	<0.1	126.0	<0.2	1.4	81.2
Target Range - Lower Bound	20.9	13.5	5.1	93.6	51.2	0.5	<0.5	0.3	7.9	0.02	<0.1	114.5	<0.2	1.2	81.8
Upper Bound	23.3	15.2	5.9	104.5	56.7	0.8	1.0	0.5	9.0	0.04	0.2	127.0	0.4	1.5	90.4
LB1230	3.5	5.3	2.6	201	11.5	0.2	<0.5	0.4	1.3	0.02	<0.1	28.8	0.6	0.4	31.2
DUP	3.5	8.2	5.1	371	11.7	<0.1	<0.5	0.6	1.5	0.02	<0.1	12.8	0.6	0.4	75.5
Target Range - Lower Bound	3.2	6.3	3.6	271	10.9	<0.1	<0.5	0.4	1.2	<0.01	<0.1	19.7	0.4	0.3	50.7
Upper Bound	3.8	7.2	4.1	301	12.3	0.2	1.0	0.6	1.6	0.03	0.2	21.9	0.8	0.5	56.0
LB1240	19.3	13.2	5.6	47.8	54.1	0.7	<0.5	1.5	7.0	0.04	<0.1	82.7	2.1	2.3	22.2
DUP	21.3	14.2	5.0	56.5	58.0	0.6	<0.5	1.6	7.9	0.06	<0.1	64.5	1.2	2.7	35.9
Target Range - Lower Bound	19.2	12.9	4.9	49.0	53.1	0.5	<0.5	1.4	7.0	0.04	<0.1	69.8	1.4	2.3	27.6
Upper Bound	21.4	14.5	5.7	55.3	59.0	0.8	1.0	1.7	7.9	0.06	0.2	77.4	1.9	2.7	30.5



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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														
LB1012	2.87	6.2	0.1	54.9	153	12	3	3	7	0.4	8.6	<0.1	62.2	<0.1	<0.5
DUP	2.36	6.4	0.1	57.4	145	16	4	3	8	0.4	8.9	<0.1	58.5	<0.1	<0.5
Target Range - Lower Bound	2.47	5.5	<0.1	53.2	141	12	2	2	6	0.3	8.2	<0.1	57.2	<0.1	<0.5
Upper Bound	2.76	7.1	0.2	59.1	157	16	5	4	9	0.5	9.3	0.2	63.5	0.2	1.0
LB1024	1.97	14.4	0.1	56.0	508	13	3	3	7	0.5	6.7	<0.1	176.5	<0.1	<0.5
DUP	2.08	15.4	0.1	59.4	563	12	3	3	6	0.8	6.5	<0.1	180.5	<0.1	<0.5
Target Range - Lower Bound	1.91	13.7	<0.1	54.7	508	11	2	2	5	0.5	6.2	<0.1	169.5	<0.1	<0.5
Upper Bound	2.14	16.1	0.2	60.7	563	14	4	4	8	0.8	7.0	0.2	187.5	0.2	1.0
LB1034	2.10	5.5	<0.1	44.7	347	11	3	2	6	0.5	5.1	<0.1	64.9	<0.1	<0.5
DUP	2.06	7.7	<0.1	37.0	465	13	3	3	6	0.6	4.1	<0.1	80.9	<0.1	<0.5
Target Range - Lower Bound	1.97	5.8	<0.1	38.7	385	10	2	<1	5	0.4	4.3	<0.1	69.2	<0.1	<0.5
Upper Bound	2.19	7.4	0.2	43.0	427	14	4	4	7	0.7	4.9	0.2	76.6	0.2	1.0
LB1058	0.79	6.7	0.1	131.5	356	8	2	2	4	1.5	15.4	<0.1	104.0	<0.1	<0.5
DUP	0.78	8.3	<0.1	121.5	427	10	3	2	5	2.1	13.9	<0.1	110.0	<0.1	<0.5
Target Range - Lower Bound	0.74	6.6	<0.1	120.0	371	8	<1	<1	3	1.6	13.8	<0.1	101.5	<0.1	<0.5
Upper Bound	0.83	8.4	0.2	133.0	412	10	4	3	6	2.0	15.5	0.2	112.5	0.2	1.0
LB1068	2.48	6.0	0.1	167.5	176	16	4	4	9	1.0	26.8	<0.1	178.5	<0.1	<0.5
DUP	2.57	5.6	0.1	186.0	161	13	3	3	7	0.9	30.3	<0.1	151.5	<0.1	<0.5
Target Range - Lower Bound	2.39	5.0	<0.1	168.0	159	13	2	2	7	0.8	27.0	<0.1	156.5	<0.1	<0.5
Upper Bound	2.66	6.6	0.2	185.5	178	16	5	5	9	1.1	30.1	0.2	173.5	0.2	1.0
LB1078	0.48	6.8	0.1	162.5	198	70	15	15	39	1.9	25.1	<0.1	53.1	<0.1	<0.5
DUP	0.51	6.6	0.1	171.5	199	72	16	15	41	1.7	27.5	<0.1	51.5	<0.1	<0.5
Target Range - Lower Bound	0.46	5.9	<0.1	158.5	188	66	14	13	37	1.6	24.9	<0.1	49.6	<0.1	<0.5
Upper Bound	0.53	7.5	0.2	175.5	209	76	17	17	43	2.0	27.7	0.2	55.0	0.2	1.0
LB1230	1.03	2.1	<0.1	43.3	201	7	2	1	4	0.6	6.8	<0.1	53.0	<0.1	<0.5
DUP	1.06	3.4	<0.1	29.4	378	5	1	1	3	0.8	3.6	<0.1	66.7	<0.1	<0.5
Target Range - Lower Bound	0.98	2.1	<0.1	34.4	274	5	<1	<1	2	0.6	4.8	<0.1	56.8	<0.1	<0.5
Upper Bound	1.11	3.4	0.2	38.3	305	7	2	2	5	0.8	5.6	0.2	62.9	0.2	1.0
LB1240	2.19	36.3	0.4	185.5	88	19	5	4	10	1.5	27.2	<0.1	98.7	<0.1	<0.5
DUP	2.94	52.6	0.2	165.5	127	24	6	5	13	1.6	21.1	<0.1	129.5	<0.1	<0.5
Target Range - Lower Bound	2.43	41.7	0.2	166.5	101	19	4	3	10	1.4	22.8	<0.1	108.5	<0.1	<0.5
Upper Bound	2.70	47.2	0.4	184.5	114	24	7	6	13	1.7	25.5	0.2	120.0	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														
LB1012	4	5	10.2	<0.2	1130	<1	2.0	<1	3.92	70	<0.5	0.5	6.1	<1	45.6
DUP	5	5	10.8	<0.2	962	<1	2.3	<1	4.90	78	<0.5	0.6	6.4	<1	53.1
Target Range - Lower Bound	3	3	9.9	<0.2	993	<1	1.9	<1	4.17	65	<0.5	0.4	5.8	<1	46.8
Upper Bound	6	7	11.1	0.4	1100	2	2.4	2	4.65	83	1.0	0.7	6.7	2	51.9
LB1024	8	7	14.3	<0.2	1740	<1	3.2	<1	1.30	58	<0.5	0.8	4.6	<1	85.2
DUP	8	7	16.4	<0.2	1820	<1	4.0	<1	1.22	43	<0.5	1.1	4.9	<1	105.5
Target Range - Lower Bound	7	5	14.5	<0.2	1690	<1	3.3	<1	1.18	43	<0.5	0.8	4.4	<1	90.5
Upper Bound	9	9	16.2	0.4	1870	2	3.9	2	1.34	58	1.0	1.1	5.1	2	100.0
LB1034	3	8	12.1	<0.2	1680	<1	2.8	<1	1.70	15	<0.5	0.7	0.4	1	73.5
DUP	4	12	10.8	<0.2	2440	<1	2.8	1	1.10	12	<0.5	0.7	0.3	1	87.0
Target Range - Lower Bound	2	8	10.8	<0.2	1955	<1	2.6	<1	1.31	8	<0.5	0.6	0.2	<1	76.1
Upper Bound	5	13	12.1	0.4	2160	2	3.0	2	1.49	19	1.0	0.8	0.5	2	84.4
LB1058	4	16	40.6	<0.2	2290	<1	11.4	<1	0.86	28	<0.5	2.4	3.2	<1	201
DUP	4	19	44.9	<0.2	2690	<1	13.6	<1	0.59	22	<0.5	3.1	3.0	<1	264
Target Range - Lower Bound	3	15	40.5	<0.2	2360	<1	11.8	<1	0.67	19	<0.5	2.5	2.8	<1	221
Upper Bound	5	20	45.0	0.4	2620	2	13.2	2	0.78	31	1.0	3.0	3.4	2	244
LB1068	14	10	34.7	<0.2	1390	<1	8.0	<1	7.52	57	<0.5	1.9	9.6	<1	132.0
DUP	13	11	35.9	<0.2	1090	<1	7.2	<1	8.46	49	<0.5	1.5	10.4	<1	110.0
Target Range - Lower Bound	12	8	33.4	<0.2	1175	<1	7.1	<1	7.57	45	<0.5	1.5	9.4	<1	115.0
Upper Bound	15	13	37.2	0.4	1305	2	8.1	2	8.41	61	1.0	1.9	10.6	2	127.0
LB1078	5	14	41.7	<0.2	4080	<1	11.2	<1	12.05	19	<0.5	1.9	4.2	<1	167.5
DUP	5	14	44.5	<0.2	3730	<1	11.6	<1	12.70	12	<0.5	1.9	4.4	<1	161.5
Target Range - Lower Bound	4	11	40.8	<0.2	3710	<1	10.7	<1	11.75	10	<0.5	1.7	4.0	<1	156.0
Upper Bound	6	17	45.4	0.4	4100	2	12.1	2	13.00	21	1.0	2.1	4.6	2	173.0
LB1230	3	2	8.6	<0.2	1180	<1	1.5	<1	1.10	12	<0.5	0.4	1.5	1	39.0
DUP	2	7	8.4	<0.2	2410	<1	1.6	<1	0.25	7	<0.5	0.4	0.9	1	38.5
Target Range - Lower Bound	<1	<2	8.0	<0.2	1705	<1	1.4	<1	0.62	<5	<0.5	0.3	1.0	<1	36.7
Upper Bound	4	7	9.0	0.4	1885	2	1.7	2	0.73	10	1.0	0.5	1.4	2	40.8
LB1240	15	8	41.5	0.2	869	<1	7.9	<1	9.53	152	<0.5	2.2	23.9	1	158.5
DUP	18	9	42.6	0.2	1320	<1	8.6	<1	9.86	91	<0.5	2.5	30.8	1	179.5
Target Range - Lower Bound	15	6	39.8	<0.2	1040	<1	7.7	<1	9.19	110	<0.5	2.1	25.9	<1	160.5
Upper Bound	18	11	44.3	0.4	1150	2	8.8	2	10.20	133	1.0	2.6	28.8	2	177.5



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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					
LB1012		2.8	30	1.8	9.0
DUP		3.5	30	2.2	9.0
Target Range - Lower Bound		2.9	20	1.8	8.5
Upper Bound		3.4	40	2.2	9.6
LB1024		4.6	20	0.9	9.0
DUP		6.0	30	0.9	9.0
Target Range - Lower Bound		4.9	<10	0.8	8.5
Upper Bound		5.7	40	1.0	9.6
LB1034		3.9	30	0.7	9.0
DUP		3.8	40	0.7	9.0
Target Range - Lower Bound		3.6	20	0.6	8.5
Upper Bound		4.1	50	0.8	9.6
LB1058		12.3	20	0.4	8.5
DUP		15.3	20	0.4	9.0
Target Range - Lower Bound		13.0	<10	0.3	8.2
Upper Bound		14.6	30	0.5	9.3
LB1068		10.0	20	1.1	9.0
DUP		7.8	20	1.1	9.0
Target Range - Lower Bound		8.4	<10	0.9	8.5
Upper Bound		9.4	30	1.3	9.6
LB1078		9.0	30	6.6	9.0
DUP		9.1	30	5.9	9.0
Target Range - Lower Bound		8.5	20	5.8	8.5
Upper Bound		9.6	40	6.7	9.6
LB1230		2.2	20	0.4	8.7
DUP		2.1	30	0.3	8.7
Target Range - Lower Bound		1.9	<10	0.2	8.2
Upper Bound		2.4	40	0.5	9.2
LB1240		14.0	60	2.9	8.7
DUP		15.8	110	2.4	8.7
Target Range - Lower Bound		14.1	70	2.4	8.2
Upper Bound		15.7	100	2.9	9.2



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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														
LB1250		4.8	2	0.64	2460	0.4	<3	<0.05	496	<1	2.7	25.1	3	0.3	1680	1.7
DUP		7.3	<2	1.07	4250	<0.2	<3	0.05	946	1	1.8	31.5	3	0.3	2670	1.2
Target Range - Lower Bound		5.6	<2	0.79	3180	<0.2	<3	<0.05	685	<1	2.0	26.6	2	0.2	2070	1.3
Upper Bound		6.5	4	0.92	3530	0.4	6	0.10	757	2	2.5	30.0	4	0.4	2280	1.6
LB1457		5.2	6	0.45	1140	0.5	<3	0.06	315	2	85.7	47.5	4	2.2	1610	110.0
DUP		4.5	5	0.31	960	<0.2	<3	<0.05	260	2	87.2	34.1	3	2.1	1240	61.3
Target Range - Lower Bound		4.5	3	0.34	990	<0.2	<3	<0.05	273	<1	82.0	38.5	2	1.9	1355	81.3
Upper Bound		5.2	8	0.42	1110	0.4	6	0.10	302	3	90.9	43.1	5	2.4	1495	90.0
LB1467		5.7	3	0.45	10200	<0.2	<3	0.06	>1000	1	1.1	16.4	1	0.5	1530	1.2
DUP		5.0	5	0.38	9030	<0.2	<3	0.05	944	1	1.5	19.9	1	0.5	1290	1.0
Target Range - Lower Bound		5.0	<2	0.37	9120	<0.2	<3	<0.05	923	<1	1.1	16.9	<1	0.4	1340	0.9
Upper Bound		5.7	6	0.46	10100	0.4	6	0.10	>1000	2	1.5	19.4	2	0.6	1480	1.3
LB1477		7.5	3	0.65	2320	<0.2	<3	0.08	388	1	17.7	72.1	2	1.4	1880	71.8
DUP		6.3	5	0.55	2100	<0.2	<3	0.07	350	1	20.6	58.4	2	1.4	1540	54.4
Target Range - Lower Bound		6.5	<2	0.55	2090	<0.2	<3	<0.05	350	<1	18.1	61.7	<1	1.2	1625	59.8
Upper Bound		7.3	6	0.65	2330	0.4	6	0.10	388	2	20.2	68.8	3	1.6	1795	66.4
LB1485		3.5	3	0.08	1740	0.5	<3	<0.05	234	1	28.2	60.8	<1	1.1	729	7.2
DUP		3.8	<2	0.08	1660	1.0	<3	<0.05	244	1	30.4	62.9	<1	1.2	792	7.8
Target Range - Lower Bound		3.4	<2	0.06	1610	0.5	<3	<0.05	227	<1	27.7	58.5	<1	1.0	721	7.0
Upper Bound		3.9	4	0.10	1800	1.0	6	0.10	251	2	30.9	65.2	2	1.3	800	8.0
LB1502		11.0	<2	0.17	5040	<0.2	<3	<0.05	141.5	<1	18.6	36.2	2	0.4	891	2.4
DUP		10.1	3	9.93	5130	<0.2	<3	<0.05	139.5	<1	16.7	27.3	3	0.4	847	2.5
Target Range - Lower Bound		9.9	<2	4.78	4820	<0.2	<3	<0.05	133.5	<1	16.7	29.9	<1	0.3	825	2.2
Upper Bound		11.2	4	5.32	5350	0.4	6	0.10	147.5	2	18.6	33.6	4	0.5	913	2.7



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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
		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														
LB1250		1.2	1.8	3.2	63.4	2.9	<0.1	<0.5	0.3	0.5	0.02	<0.1	2.8	<0.2	0.1	15.50
DUP		0.8	2.2	5.9	110.0	2.3	<0.1	<0.5	0.5	0.3	0.03	<0.1	1.0	0.4	0.1	30.6
Target Range - Lower Bound		0.9	1.8	4.2	81.9	2.4	<0.1	<0.5	0.3	0.3	<0.01	<0.1	1.7	<0.2	<0.1	21.9
Upper Bound		1.2	2.2	4.9	91.5	2.8	0.2	1.0	0.5	0.5	0.04	0.2	2.1	0.4	0.2	24.2
LB1457		90.6	35.2	3.1	27.2	168.0	1.2	1.1	3.1	34.0	0.10	<0.1	131.5	1.5	8.2	70.0
DUP		46.8	23.7	2.4	23.9	112.5	1.2	0.6	2.1	18.6	0.08	<0.1	149.0	1.4	4.1	56.0
Target Range - Lower Bound		65.2	27.9	2.5	23.8	133.0	1.0	<0.5	2.4	24.9	0.08	<0.1	133.0	1.2	5.7	59.8
Upper Bound		72.2	31.0	3.0	27.3	147.5	1.4	1.0	2.8	27.7	0.10	0.2	147.5	1.7	6.6	66.2
LB1467		0.9	4.1	6.1	247	2.2	<0.1	<0.5	0.5	0.3	0.04	<0.1	1.5	0.3	0.1	80.2
DUP		0.7	3.8	5.8	228	2.0	<0.1	<0.5	0.5	0.3	0.03	<0.1	1.5	<0.2	0.1	72.0
Target Range - Lower Bound		0.7	3.7	5.6	225	1.9	<0.1	<0.5	0.4	0.2	0.02	<0.1	1.3	<0.2	<0.1	72.3
Upper Bound		0.9	4.2	6.3	250	2.3	0.2	1.0	0.6	0.4	0.05	0.2	1.7	0.4	0.2	79.9
LB1477		48.6	27.6	3.3	55.0	130.5	0.9	0.7	1.5	20.6	0.10	<0.1	76.3	0.5	3.7	90.1
DUP		36.3	23.0	3.3	54.6	104.0	0.9	0.6	1.3	15.1	0.08	<0.1	85.0	0.8	2.9	85.2
Target Range - Lower Bound		40.2	23.9	3.0	51.6	111.5	0.8	<0.5	1.2	16.9	0.08	<0.1	76.5	0.4	3.0	83.3
Upper Bound		44.7	26.7	3.6	58.0	123.0	1.0	1.0	1.6	18.8	0.10	0.2	84.8	0.9	3.6	92.0
LB1485		5.4	4.1	3.0	50.3	12.5	0.2	<0.5	0.4	2.1	0.02	<0.1	22.3	<0.2	0.4	36.2
DUP		6.0	4.2	3.3	54.2	13.1	0.2	<0.5	0.4	2.3	0.02	<0.1	23.7	0.7	0.5	36.9
Target Range - Lower Bound		5.3	3.8	2.9	49.1	12.1	<0.1	<0.5	0.3	2.0	<0.01	<0.1	21.8	<0.2	0.3	34.7
Upper Bound		6.1	4.5	3.4	55.4	13.5	0.3	1.0	0.5	2.4	0.03	0.2	24.3	0.7	0.6	38.4
LB1502		2.0	2.7	1.3	115.5	4.9	0.1	<0.5	0.9	0.8	0.01	<0.1	14.1	0.9	0.2	42.3
DUP		2.0	2.8	1.4	118.0	4.9	<0.1	<0.5	0.9	0.8	0.01	<0.1	14.9	1.2	0.2	42.7
Target Range - Lower Bound		1.8	2.5	1.2	110.5	4.6	<0.1	<0.5	0.8	0.7	<0.01	<0.1	13.7	0.8	<0.1	40.4
Upper Bound		2.2	3.0	1.5	123.0	5.2	0.2	1.0	1.0	0.9	0.02	0.2	15.3	1.3	0.3	44.6



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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	
		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	ppb
		0.01	0.5	0.1	0.1	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
		DUPLICATES															
LB1250		0.44	0.8	<0.1	8.7	148	5	1	1	3	0.2	1.1	<0.1	30.8	<0.1	<0.5	
DUP		0.35	1.1	<0.1	3.9	239	9	2	2	5	0.2	0.4	<0.1	37.3	<0.1	<0.5	
Target Range - Lower Bound		0.37	<0.5	<0.1	5.9	183	6	<1	<1	3	<0.1	0.6	<0.1	32.2	<0.1	<0.5	
Upper Bound		0.42	1.0	0.2	6.7	204	8	2	2	5	0.3	0.9	0.2	35.9	0.2	1.0	
LB1457		0.98	35.7	0.1	397	313	69	17	15	36	3.8	49.9	<0.1	251	<0.1	<0.5	
DUP		0.72	27.0	0.1	343	257	35	8	7	18	2.3	48.8	<0.1	206	<0.1	<0.5	
Target Range - Lower Bound		0.80	29.3	<0.1	351	270	48	11	9	25	2.8	46.8	<0.1	217	<0.1	<0.5	
Upper Bound		0.90	33.4	0.2	389	300	56	14	13	29	3.3	51.9	0.2	240	0.2	1.0	
LB1467		0.15	1.1	<0.1	4.8	292	5	1	1	2	0.2	0.5	<0.1	63.4	<0.1	<0.5	
DUP		0.22	0.9	<0.1	4.5	267	3	1	1	1	0.2	0.5	<0.1	55.1	<0.1	<0.5	
Target Range - Lower Bound		0.17	<0.5	<0.1	4.3	265	3	<1	<1	<1	<0.1	0.4	<0.1	56.2	<0.1	<0.5	
Upper Bound		0.20	1.6	0.2	5.0	294	5	2	2	2	0.3	0.6	0.2	62.3	0.2	1.0	
LB1477		0.81	13.7	0.2	243	373	30	7	6	16	2.4	27.6	<0.1	167.5	<0.1	<0.5	
DUP		0.76	10.4	0.2	253	303	22	5	4	11	2.1	31.7	<0.1	156.5	<0.1	<0.5	
Target Range - Lower Bound		0.74	10.9	<0.1	236	320	24	5	4	12	2.0	28.1	<0.1	154.0	<0.1	<0.5	
Upper Bound		0.83	13.2	0.3	261	356	28	7	6	15	2.5	31.2	0.2	170.0	0.2	1.0	
LB1485		1.47	3.2	<0.1	48.5	242	15	4	3	8	0.3	7.3	<0.1	92.0	<0.1	<0.5	
DUP		1.60	3.5	0.1	51.4	238	17	4	4	9	0.4	7.7	<0.1	108.0	<0.1	<0.5	
Target Range - Lower Bound		1.45	2.7	<0.1	47.4	227	14	3	2	7	0.2	7.0	<0.1	94.9	<0.1	<0.5	
Upper Bound		1.62	4.0	0.2	52.5	253	18	5	5	10	0.5	8.0	0.2	105.0	0.2	1.0	
LB1502		1.55	2.5	<0.1	22.2	180	11	3	2	6	<0.1	4.3	<0.1	49.4	<0.1	<0.5	
DUP		1.25	2.3	<0.1	22.3	173	10	2	2	5	0.1	4.4	<0.1	47.6	<0.1	<0.5	
Target Range - Lower Bound		1.32	1.8	<0.1	21.0	167	9	<1	<1	4	<0.1	4.0	<0.1	46.0	<0.1	<0.5	
Upper Bound		1.48	3.0	0.2	23.5	186	12	4	3	7	0.2	4.7	0.2	51.0	0.2	1.0	



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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
		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														
LB1250		2	4	2.2	<0.2	1240	<1	0.5	<1	0.26	8	<0.5	0.1	0.2	<1	10.9
DUP		2	9	1.5	<0.2	2230	<1	0.3	<1	0.12	29	<0.5	0.1	0.1	<1	7.4
Target Range - Lower Bound		<1	4	1.7	<0.2	1645	<1	0.3	<1	0.16	13	<0.5	<0.1	<0.1	<1	8.6
Upper Bound		3	9	2.0	0.4	1825	2	0.5	2	0.22	24	1.0	0.2	0.2	2	9.7
LB1457		22	18	116.5	<0.2	1900	<1	31.5	<1	12.85	52	<0.5	9.6	20.0	1	680
DUP		18	14	82.9	<0.2	1490	<1	18.8	<1	14.35	32	<0.5	4.8	16.6	<1	417
Target Range - Lower Bound		18	13	94.6	<0.2	1610	<1	23.8	<1	12.90	35	<0.5	6.7	17.3	<1	521
Upper Bound		22	19	105.0	0.4	1780	2	26.5	2	14.30	49	1.0	7.7	19.3	2	576
LB1467		2	5	1.7	<0.2	6370	<1	0.4	<1	0.06	12	<0.5	0.1	0.1	2	8.8
DUP		2	5	1.4	<0.2	5420	<1	0.3	<1	0.09	7	<0.5	0.1	0.2	2	7.7
Target Range - Lower Bound		<1	3	1.4	<0.2	5600	<1	0.2	<1	0.05	<5	<0.5	<0.1	<0.1	<1	7.7
Upper Bound		3	7	1.7	0.4	6190	2	0.5	2	0.10	10	1.0	0.2	0.2	3	8.8
LB1477		10	12	84.3	<0.2	2000	<1	22.2	<1	4.61	56	<0.5	4.5	6.6	<1	428
DUP		12	12	74.5	<0.2	1810	<1	17.3	<1	5.65	75	<0.5	3.3	6.0	<1	350
Target Range - Lower Bound		9	9	75.3	<0.2	1810	<1	18.7	<1	4.85	57	<0.5	3.6	5.9	<1	369
Upper Bound		13	15	83.5	0.4	2000	2	20.8	2	5.41	74	1.0	4.2	6.7	2	409
LB1485		5	7	10.5	<0.2	1530	<1	2.2	<1	1.91	17	<0.5	0.5	4.3	<1	42.0
DUP		6	8	10.8	<0.2	1720	<1	2.4	<1	2.03	27	<0.5	0.5	4.3	<1	54.0
Target Range - Lower Bound		4	5	10.0	<0.2	1545	<1	2.1	<1	1.85	16	<0.5	0.4	4.0	<1	45.5
Upper Bound		7	10	11.3	0.4	1705	2	2.5	2	2.09	28	1.0	0.6	4.6	2	50.5
LB1502		3	<2	4.4	<0.2	2280	<1	0.9	<1	0.59	16	<0.5	0.2	2.5	<1	14.9
DUP		3	4	4.2	<0.2	2160	<1	0.9	<1	0.60	23	<0.5	0.2	2.5	<1	14.8
Target Range - Lower Bound		2	<2	4.0	<0.2	2110	<1	0.8	<1	0.55	14	<0.5	<0.1	2.3	<1	14.0
Upper Bound		4	4	4.6	0.4	2330	2	1.0	2	0.64	25	1.0	0.3	2.7	2	15.7



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QC CERTIFICATE OF ANALYSIS AS12028069

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					
LB1250		0.8	20	0.2	8.7
DUP		0.5	30	0.3	8.7
Target Range - Lower Bound		0.5	<10	<0.1	8.2
Upper Bound		0.8	40	0.4	9.2
LB1457		53.1	20	1.5	8.9
DUP		27.1	20	1.7	8.9
Target Range - Lower Bound		38.0	<10	1.4	8.4
Upper Bound		42.2	30	1.8	9.4
LB1467		0.5	40	0.1	9.0
DUP		0.5	30	0.1	9.0
Target Range - Lower Bound		0.4	20	<0.1	8.5
Upper Bound		0.6	50	0.2	9.6
LB1477		24.3	20	1.0	8.9
DUP		17.6	20	1.0	8.9
Target Range - Lower Bound		19.8	<10	0.9	8.4
Upper Bound		22.1	30	1.2	9.4
LB1485		3.2	20	1.2	
DUP		3.7	20	1.6	
Target Range - Lower Bound		3.2	<10	1.2	
Upper Bound		3.7	30	1.6	
LB1502		1.3	20	0.5	9.0
DUP		1.3	20	0.5	9.0
Target Range - Lower Bound		1.1	<10	0.4	8.5
Upper Bound		1.5	30	0.6	9.6