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QC CERTIFICATE AS12053457

Project:
P.O. No.: 93715
This report is for 164 Soil samples submitted to our lab in Alice Springs, NT,
Australia on 19-MAR-2012.

The following have access to data associated with this certificate:

GEOFF BOGIE

To: ONEVA EXPLORATION P/L
ATTN: GEOFF BOGIE
PO BOX 0845
ALICE SPRINGS NT 0871

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.

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	

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	17.7	5	7.14	200	0.3	<3	1.26	152.0	60	14.4	57.2	4	7.1	716	1.4
ION-SRM18	18.1	8	6.92	180	0.4	<3	1.33	150.5	58	14.0	58.5	4	7.7	714	1.4
ION-SRM18	19.2	6	7.82	190	<0.2	<3	1.42	158.5	59	14.9	54.8	3	7.3	722	1.4
ION-SRM18	19.1	8	7.05	180	<0.2	<3	1.57	168.0	64	15.6	60.1	5	7.7	767	1.5
ION-SRM18	16.4	8	6.97	170	<0.2	<3	1.12	117.5	61	13.4	56.8	<1	6.7	718	1.4
ION-SRM18	24.7	9	10.20	200	0.2	<3	1.53	167.0	93	15.8	80.0	7	9.9	1030	1.5
ION-SRM18	19.1	10	9.05	190	<0.2	<3	1.28	141.5	68	15.8	64.4	1	7.7	710	1.5
ION-SRM18	17.8	8	7.12	210	<0.2	<3	1.28	152.0	71	16.8	65.8	4	8.0	808	1.5
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	<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
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
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
DUPLICATES															
UOL1110	2.4	<2	0.12	1810	0.2	<3	<0.05	364	2	20.2	72.1	<1	2.5	1130	23.2
DUP	2.1	2	0.12	1910	0.3	<3	<0.05	366	2	26.2	64.9	<1	2.5	935	25.4
Target Range - Lower Bound	2.0	<2	0.09	1760	<0.2	<3	<0.05	347	<1	21.9	64.8	<1	2.3	980	23.0
Upper Bound	2.5	4	0.15	1960	0.4	6	0.10	383	3	24.5	72.2	2	2.7	1085	25.6
UOL1120	5.0	3	0.09	2710	<0.2	<3	<0.05	546	2	7.0	72.4	1	1.2	1150	9.7
DUP	4.4	7	0.14	2740	0.2	<3	<0.05	575	2	8.9	85.4	1	1.2	931	11.3
Target Range - Lower Bound	4.4	3	0.09	2580	<0.2	<3	<0.05	532	<1	7.5	74.7	<1	1.0	987	9.9
Upper Bound	5.0	7	0.14	2870	0.4	6	0.10	589	3	8.4	83.1	2	1.4	1095	11.1



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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	0.7	2.1	6.7	3.0	<0.1	<0.5	4.0	0.3	0.14	<0.1	5.0	0.4	<0.1	73.7
ION-SRM18	0.6	0.7	2.0	6.4	3.2	<0.1	<0.5	4.0	0.3	0.15	<0.1	4.7	0.5	<0.1	77.0
ION-SRM18	0.5	0.6	1.9	5.1	2.6	<0.1	<0.5	4.0	0.2	0.14	<0.1	4.5	0.4	<0.1	77.5
ION-SRM18	0.6	0.7	2.2	6.1	3.0	<0.1	<0.5	3.8	0.3	0.15	<0.1	5.1	0.4	<0.1	74.8
ION-SRM18	0.6	0.7	1.7	3.5	2.9	<0.1	<0.5	3.7	0.2	0.12	<0.1	3.8	0.2	<0.1	57.8
ION-SRM18	0.6	0.8	2.3	4.6	3.3	<0.1	<0.5	4.5	0.3	0.18	<0.1	4.9	0.5	0.1	79.9
ION-SRM18	0.7	0.8	1.6	3.5	2.9	<0.1	<0.5	4.2	0.3	0.15	<0.1	3.9	<0.2	<0.1	66.6
ION-SRM18	0.7	0.9	2.2	4.8	3.2	0.1	<0.5	4.4	0.3	0.16	<0.1	4.7	0.3	<0.1	69.4
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	0.3	<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	0.3	<0.1	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	0.4	<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
DUPLICATES															
UOL1110	11.9	10.1	1.9	87.3	47.3	0.6	<0.5	0.5	5.0	0.03	<0.1	55.2	0.5	1.0	83.9
DUP	13.3	12.2	2.1	80.9	54.7	0.8	<0.5	0.5	5.7	0.04	<0.1	57.0	0.6	1.2	84.5
Target Range - Lower Bound	11.9	10.5	1.8	79.4	48.4	0.6	<0.5	0.4	5.0	0.02	<0.1	53.2	0.3	0.9	80.0
Upper Bound	13.3	11.8	2.2	88.8	53.7	0.8	1.0	0.6	5.7	0.05	0.2	59.0	0.8	1.3	88.4
UOL1120	5.5	3.6	2.9	112.5	18.4	0.1	<0.5	0.4	2.2	0.03	<0.1	17.9	1.0	0.6	80.8
DUP	6.5	4.5	3.3	90.8	21.8	0.2	<0.5	0.5	2.7	0.04	<0.1	18.3	1.1	0.7	81.2
Target Range - Lower Bound	5.6	3.7	2.8	96.1	19.0	<0.1	<0.5	0.3	2.2	0.02	<0.1	17.1	0.8	0.5	76.9
Upper Bound	6.4	4.4	3.4	107.0	21.2	0.2	1.0	0.6	2.7	0.05	0.2	19.1	1.3	0.8	85.1



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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 Rb ppb 0.1	ME-MS23 Re ppb 0.1	ME-MS23 Sb ppb 0.5	ME-MS23 Sc ppb 1
Sample Description															
STANDARDS															
ION-SRM18	0.42	26.3	<0.1	12.0	508	92	22	21	48	11.0	2.0	170.0	<0.1	<0.5	1
ION-SRM18	0.42	26.6	<0.1	12.1	522	79	18	19	41	11.9	2.2	172.5	<0.1	<0.5	1
ION-SRM18	0.41	26.7	<0.1	11.4	485	95	21	22	50	12.2	1.9	165.5	<0.1	<0.5	2
ION-SRM18	0.47	28.9	<0.1	12.9	544	75	17	17	39	12.1	2.1	181.5	<0.1	<0.5	2
ION-SRM18	0.36	22.3	<0.1	11.7	434	83	18	18	40	10.7	1.8	142.5	<0.1	<0.5	1
ION-SRM18	0.51	31.8	<0.1	13.4	594	87	18	18	42	17.3	2.2	186.0	<0.1	<0.5	2
ION-SRM18	0.42	32.1	<0.1	12.3	519	91	23	23	52	12.0	2.2	165.0	<0.1	<0.5	2
ION-SRM18	0.45	32.3	0.1	13.5	536	89	23	22	51	11.5	2.3	174.0	<0.1	<0.5	2
Target Range - Lower Bound	0.41	26.3	<0.1	11.4	495	77	17	17	17	10.6	1.7	156.5	<0.1	<0.5	<1
Upper Bound	0.53	33.3	0.2	14.2	607	97	23	23	23	13.2	2.3	191.5	0.2	1.1	5
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	<1
BLANK	<0.01	<0.5	<0.1	<0.1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.5	<1
BLANK	<0.01	<0.5	<0.1	<0.1	1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.5	<1
BLANK	<0.01	<0.5	<0.1	<0.1	1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.5	<1
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	<1
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	2
DUPLICATES															
UOL1110	1.51	14.6	0.1	148.0	348	6	1	1	3	1.0	20.0	224	<0.1	<0.5	9
DUP	1.55	14.2	<0.1	177.0	304	9	2	2	5	1.1	27.2	211	<0.1	<0.5	10
Target Range - Lower Bound	1.44	13.2	<0.1	154.5	309	6	<1	<1	3	0.9	22.3	207	<0.1	<0.5	8
Upper Bound	1.62	15.6	0.2	170.5	343	9	2	2	5	1.2	24.9	228	0.2	1.0	11
UOL1120	1.20	4.5	<0.1	46.0	267	3	1	1	2	0.4	6.1	150.5	<0.1	<0.5	5
DUP	1.82	4.4	0.1	56.7	233	4	1	1	2	0.4	7.9	135.5	<0.1	<0.5	4
Target Range - Lower Bound	1.42	3.7	<0.1	48.7	237	2	<1	<1	<1	0.3	6.6	136.0	<0.1	<0.5	3
Upper Bound	1.60	5.2	0.2	54.0	264	5	2	2	3	0.5	7.5	150.5	0.2	1.0	6



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Method Analyte Units LOR	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	ME-MS23 Yb ppb 0.1
Sample Description															
STANDARDS															
ION-SRM18	12	3.0	0.2	1160	<1	0.3	<1	3.20	23	<0.5	0.1	9.3	<1	9.3	0.3
ION-SRM18	7	3.1	0.2	1050	<1	0.4	1	3.36	18	<0.5	0.1	9.0	<1	8.9	0.3
ION-SRM18	7	2.6	<0.2	1040	<1	0.3	<1	3.12	18	<0.5	0.1	8.7	<1	7.8	0.2
ION-SRM18	13	3.1	<0.2	1220	<1	0.4	<1	3.58	22	<0.5	<0.1	9.1	<1	9.4	0.3
ION-SRM18	17	2.7	<0.2	810	<1	0.4	<1	3.19	21	<0.5	<0.1	9.0	<1	7.4	0.3
ION-SRM18	18	3.1	0.2	1045	<1	0.4	<1	3.44	18	<0.5	0.1	10.4	<1	9.2	0.3
ION-SRM18	18	3.1	<0.2	924	<1	0.4	<1	3.36	11	<0.5	0.1	9.7	<1	9.1	0.3
ION-SRM18	18	3.1	0.2	959	<1	0.5	<1	3.74	36	<0.5	0.1	9.8	<1	10.4	0.3
Target Range - Lower Bound	12	2.5	<0.2	1010	<1	0.2	<1	3.11	21	<0.5	<0.1	8.7	<1	8.1	<0.1
Upper Bound	22	3.3	0.4	1235	3	0.6	2	3.85	44	1.1	0.2	10.8	2	10.1	0.5
BLANKS															
BLANK	3	<0.1	0.2	<1	<1	<0.1	<1	0.02	<5	<0.5	<0.1	<0.1	<1	0.1	<0.1
BLANK	4	<0.1	<0.2	<1	<1	<0.1	<1	<0.02	6	<0.5	<0.1	<0.1	<1	<0.1	<0.1
BLANK	<2	<0.1	0.2	<1	<1	<0.1	<1	0.02	5	<0.5	<0.1	<0.1	<1	0.1	<0.1
BLANK	3	<0.1	<0.2	1	<1	<0.1	1	<0.02	7	<0.5	<0.1	<0.1	<1	<0.1	<0.1
Target Range - Lower Bound	<2	<0.1	<0.2	<1	<1	<0.1	<1	<0.02	<5	<0.5	<0.1	<0.1	<1	<0.1	<0.1
Upper Bound	4	0.2	0.4	2	2	0.2	2	0.04	10	1.0	0.2	0.2	2	0.2	0.2
DUPLICATES															
UOL1110	10	39.8	<0.2	3590	<1	5.7	<1	5.26	39	<0.5	1.2	10.6	<1	221	6.8
DUP	8	49.0	<0.2	3550	<1	6.6	<1	7.91	16	<0.5	1.3	12.9	<1	242	7.4
Target Range - Lower Bound	7	42.1	<0.2	3390	<1	5.7	<1	6.24	21	<0.5	1.1	11.1	<1	220	6.6
Upper Bound	11	46.7	0.4	3750	2	6.6	2	6.93	34	1.0	1.4	12.4	2	243	7.6
UOL1120	5	13.4	<0.2	2720	<1	2.2	<1	0.71	26	<0.5	0.6	2.1	2	80.7	3.4
DUP	4	18.0	0.2	2580	<1	2.7	<1	0.99	33	<0.5	0.7	2.3	3	93.7	3.9
Target Range - Lower Bound	<2	14.8	<0.2	2520	<1	2.2	<1	0.79	23	<0.5	0.5	2.0	<1	82.7	3.4
Upper Bound	7	16.6	0.4	2780	2	2.7	2	0.91	36	1.0	0.8	2.4	4	91.7	3.9



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Sample Description	Method Analyte Units LOR	ME-MS23 Zn ppb 10	ME-MS23 Zr ppb 0.1	pH-MS23 Final pH Unity 0.1
STANDARDS				
ION-SRM18		560	5.3	9.0
ION-SRM18		590	5.1	9.0
ION-SRM18		550	4.7	9.0
ION-SRM18		590	5.8	9.0
ION-SRM18		480	4.9	9.0
ION-SRM18		630	5.9	9.0
ION-SRM18		600	5.1	9.0
ION-SRM18		580	6.1	9.0
Target Range - Lower Bound		530	4.3	
Upper Bound		670	5.5	
BLANKS				
BLANK		10	0.1	9.0
BLANK		<10	<0.1	9.0
BLANK		10	<0.1	9.0
BLANK		10	<0.1	9.0
Target Range - Lower Bound		<10	<0.1	8.0
Upper Bound		20	0.2	10.0
DUPLICATES				
UOL1110		50	1.3	9.0
DUP		50	1.5	9.0
Target Range - Lower Bound		40	1.2	8.5
Upper Bound		60	1.6	9.6
UOL1120		60	0.6	9.0
DUP		40	0.7	9.0
Target Range - Lower Bound		40	0.5	8.5
Upper Bound		60	0.8	9.6



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QC CERTIFICATE OF ANALYSIS AS12053457

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														
UOL1130	5.7	<2	0.14	2790	0.3	<3	<0.05	448	2	15.1	116.5	<1	1.7	1150	16.3
DUP	5.0	2	0.13	2730	0.5	<3	<0.05	406	2	20.2	126.0	<1	1.9	904	25.6
Target Range - Lower Bound	5.0	<2	0.11	2610	<0.2	<3	<0.05	405	<1	16.7	115.0	<1	1.6	975	19.8
Upper Bound	5.7	4	0.16	2910	0.6	6	0.10	449	3	18.6	127.5	2	2.0	1080	22.1
UOL1154	5.1	5	0.08	1750	<0.2	<3	0.16	671	2	13.6	61.8	1	0.8	676	8.2
DUP	4.6	3	0.08	2300	0.4	<3	0.14	614	2	17.0	75.7	1	1.1	757	9.8
Target Range - Lower Bound	4.5	<2	0.06	1910	<0.2	<3	0.09	610	<1	14.4	65.0	<1	0.8	680	8.5
Upper Bound	5.2	6	0.10	2140	0.4	6	0.21	675	3	16.2	72.5	2	1.1	753	9.6
UOL1164	2.9	3	0.16	1750	<0.2	<3	<0.05	581	2	13.3	57.5	1	2.7	1260	26.4
DUP	2.4	5	0.18	2050	0.4	<3	<0.05	527	2	15.8	65.5	1	2.9	1300	28.6
Target Range - Lower Bound	2.4	<2	0.14	1800	<0.2	<3	<0.05	526	<1	13.7	58.1	<1	2.6	1215	26.0
Upper Bound	2.9	6	0.20	2010	0.4	6	0.10	582	3	15.4	64.9	2	3.0	1345	29.0
UOL1174	4.0	2	0.10	2490	<0.2	<3	<0.05	549	2	10.8	34.7	1	0.6	961	16.2
DUP	3.3	4	0.13	3260	0.2	<3	<0.05	498	2	14.1	41.5	<1	0.7	988	20.4
Target Range - Lower Bound	3.4	<2	0.09	2720	<0.2	<3	<0.05	497	<1	11.7	35.9	<1	0.5	925	17.3
Upper Bound	3.9	4	0.14	3030	0.4	6	0.10	550	3	13.2	40.3	2	0.8	1025	19.3
UOL8109	2.1	2	0.10	510	0.2	<3	<0.05	254	6	82.3	206	6	6.0	1380	29.5
DUP	2.4	<2	<0.02	620	0.2	<3	<0.05	256	5	84.6	170.0	4	5.2	1210	23.4
Target Range - Lower Bound	2.0	<2	0.04	530	<0.2	<3	<0.05	242	4	79.2	178.5	4	5.2	1230	25.0
Upper Bound	2.5	4	0.08	600	0.4	6	0.10	268	7	87.7	197.5	6	6.0	1360	27.9
UOL8119	1.6	<2	0.11	190	0.2	<3	<0.05	232	2	51.2	32.9	3	4.5	837	18.9
DUP	2.1	<2	0.07	240	0.3	<3	<0.05	242	2	54.1	27.7	4	4.5	785	22.6
Target Range - Lower Bound	1.7	<2	0.07	190	<0.2	<3	<0.05	225	<1	49.9	28.5	2	4.2	769	19.6
Upper Bound	2.0	4	0.11	240	0.4	6	0.10	249	3	55.4	32.1	5	4.8	853	21.9
UOL8129	4.8	2	0.48	960	<0.2	<3	0.07	400	4	25.4	45.5	3	3.2	1740	27.6
DUP	4.7	<2	0.23	930	0.4	<3	0.05	372	2	20.4	32.4	<1	2.4	1330	13.3
Target Range - Lower Bound	4.4	<2	0.32	890	<0.2	<3	<0.05	367	2	21.7	36.7	<1	2.6	1455	19.3
Upper Bound	5.1	4	0.39	1000	0.4	6	0.10	406	4	24.1	41.2	3	3.0	1615	21.6
UOL9111	5.1	<2	0.23	630	0.7	<3	0.17	421	6	87.3	36.5	3	2.2	2430	59.4
DUP	4.7	<2	0.24	790	0.2	<3	0.15	373	6	96.3	30.5	3	2.2	2060	48.8
Target Range - Lower Bound	4.6	<2	0.20	660	<0.2	<3	0.10	377	5	87.1	31.5	2	2.0	2130	51.3
Upper Bound	5.2	4	0.27	760	0.7	6	0.22	417	7	96.5	35.5	4	2.4	2360	56.9



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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															
UOL1130	8.5	6.7	2.9	129.0	32.2	0.4	<0.5	0.3	3.6	0.04	<0.1	34.7	1.0	0.8	84.0
DUP	14.2	10.0	3.3	91.5	48.6	0.6	<0.5	0.4	5.9	0.04	<0.1	38.4	1.4	1.2	77.9
Target Range - Lower Bound	10.7	7.8	2.8	104.0	38.3	0.4	<0.5	0.2	4.4	0.03	<0.1	34.6	0.9	0.9	76.9
Upper Bound	12.0	8.9	3.4	116.5	42.5	0.6	1.0	0.5	5.1	0.05	0.2	38.5	1.5	1.2	85.0
UOL1154	3.9	2.8	2.8	59.4	13.3	<0.1	<0.5	0.6	1.6	0.05	<0.1	9.9	0.4	0.3	39.1
DUP	4.8	3.3	2.9	63.3	15.6	0.1	<0.5	0.7	1.5	0.05	<0.1	12.5	0.4	0.4	38.1
Target Range - Lower Bound	4.0	2.8	2.6	57.8	13.6	<0.1	<0.5	0.5	1.4	0.04	<0.1	10.5	<0.2	0.2	36.7
Upper Bound	4.7	3.3	3.1	64.9	15.3	0.2	1.0	0.8	1.7	0.06	0.2	11.9	0.6	0.5	40.5
UOL1164	12.1	9.2	2.7	56.1	45.3	0.4	<0.5	1.3	5.1	0.06	<0.1	32.4	1.0	1.0	164.5
DUP	13.5	9.4	2.3	51.3	47.9	0.3	<0.5	1.3	4.6	0.06	<0.1	38.1	0.8	1.2	137.0
Target Range - Lower Bound	12.1	8.7	2.3	50.5	44.2	0.2	<0.5	1.1	4.5	0.05	<0.1	33.4	0.7	0.9	143.0
Upper Bound	13.5	9.9	2.7	56.9	49.0	0.5	1.0	1.5	5.2	0.07	0.2	37.1	1.1	1.3	158.5
UOL1174	7.7	6.2	2.7	86.7	31.3	0.4	<0.5	0.4	3.2	0.03	<0.1	47.4	1.2	0.6	82.5
DUP	9.3	7.6	2.3	76.6	38.1	0.4	<0.5	0.5	3.2	0.03	<0.1	58.4	1.0	0.8	79.7
Target Range - Lower Bound	8.0	6.5	2.3	77.1	32.9	0.3	<0.5	0.3	2.9	0.02	<0.1	50.2	0.8	0.6	77.0
Upper Bound	9.0	7.3	2.7	86.2	36.5	0.5	1.0	0.6	3.5	0.04	0.2	55.6	1.4	0.8	85.2
UOL8109	14.7	10.7	5.2	14.2	46.1	0.5	0.7	0.6	5.9	0.08	<0.1	36.5	1.4	1.3	33.3
DUP	11.5	9.9	4.9	13.5	40.4	0.5	0.7	0.7	4.8	0.09	<0.1	43.3	1.2	1.0	31.2
Target Range - Lower Bound	12.3	9.7	4.7	12.7	41.0	0.4	<0.5	0.5	5.0	0.07	<0.1	37.8	1.0	1.0	30.6
Upper Bound	13.9	10.9	5.4	15.0	45.5	0.6	1.0	0.8	5.7	0.10	0.2	42.0	1.6	1.3	33.9
UOL8119	8.9	8.5	2.7	4.7	33.8	0.5	<0.5	0.9	3.7	0.07	<0.1	40.0	0.6	0.7	28.3
DUP	10.6	10.3	3.2	4.7	41.1	0.5	<0.5	1.0	4.4	0.09	<0.1	47.7	1.4	0.9	29.8
Target Range - Lower Bound	9.2	8.8	2.7	4.0	35.5	0.4	<0.5	0.8	3.7	0.07	<0.1	41.6	0.8	0.7	27.6
Upper Bound	10.3	10.0	3.2	5.4	39.4	0.6	1.0	1.1	4.4	0.09	0.2	46.1	1.3	0.9	30.5
UOL8129	14.6	9.3	3.3	19.5	40.9	0.4	<0.5	2.8	6.0	0.12	<0.1	17.2	1.7	1.3	134.5
DUP	6.3	5.9	3.0	19.7	24.6	0.3	<0.5	1.8	2.7	0.10	<0.1	18.3	1.8	0.5	119.5
Target Range - Lower Bound	9.8	7.1	2.9	18.1	31.0	0.2	<0.5	2.1	4.0	0.09	<0.1	16.8	1.5	0.8	120.5
Upper Bound	11.1	8.1	3.4	21.1	34.5	0.5	1.0	2.5	4.7	0.13	0.2	18.7	2.0	1.0	133.5
UOL9111	31.3	33.3	2.9	14.0	121.0	1.0	0.5	2.2	13.8	0.13	<0.1	85.4	0.7	2.4	114.0
DUP	25.0	28.6	2.8	15.9	106.0	1.1	<0.5	2.4	11.5	0.11	<0.1	98.7	2.6	1.9	100.5
Target Range - Lower Bound	26.6	29.3	2.6	13.7	107.5	0.9	<0.5	2.1	11.9	0.10	<0.1	87.3	1.4	1.9	102.0
Upper Bound	29.7	32.6	3.1	16.2	119.5	1.2	1.0	2.5	13.4	0.14	0.2	96.8	1.9	2.4	112.5

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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 Rb ppb 0.1	ME-MS23 Re ppb 0.1	ME-MS23 Sb ppb 0.5	ME-MS23 Sc ppb 1
Sample Description															
DUPLICATES															
UOL1130	1.91	8.9	0.1	91.5	434	4	1	1	2	0.8	12.6	170.0	<0.1	<0.5	5
DUP	2.38	9.2	0.2	125.5	363	12	3	3	6	1.1	18.2	141.0	<0.1	<0.5	6
Target Range - Lower Bound	2.03	8.1	<0.1	103.0	378	7	<1	<1	3	0.8	14.5	147.5	<0.1	<0.5	4
Upper Bound	2.26	10.0	0.2	114.0	419	9	3	3	5	1.1	16.3	163.5	0.2	1.0	7
UOL1154	1.45	4.1	<0.1	35.7	219	1	<1	<1	1	0.3	4.3	73.4	<0.1	<0.5	3
DUP	1.80	4.4	0.1	43.2	247	4	1	1	2	0.3	5.3	87.3	<0.1	<0.5	3
Target Range - Lower Bound	1.53	3.5	<0.1	37.4	220	<1	<1	<1	<1	0.2	4.5	76.2	<0.1	<0.5	2
Upper Bound	1.72	5.0	0.2	41.5	246	4	2	2	2	0.4	5.1	84.5	0.2	1.0	4
UOL1164	0.83	19.3	0.1	116.5	430	4	1	1	2	0.7	14.0	272	<0.1	<0.5	5
DUP	0.91	20.4	<0.1	127.0	450	8	2	2	4	0.7	15.8	285	<0.1	<0.5	5
Target Range - Lower Bound	0.82	18.4	<0.1	115.5	417	5	<1	<1	2	0.6	14.1	264	<0.1	<0.5	4
Upper Bound	0.92	21.3	0.2	128.0	463	7	2	2	4	0.8	15.7	293	0.2	1.0	6
UOL1174	0.76	6.2	<0.1	107.0	238	1	<1	<1	1	0.6	15.0	105.0	<0.1	<0.5	5
DUP	0.90	6.3	<0.1	136.0	244	6	1	1	4	0.6	18.9	105.0	<0.1	<0.5	4
Target Range - Lower Bound	0.78	5.4	<0.1	115.5	228	2	<1	<1	<1	0.5	16.0	99.7	<0.1	<0.5	3
Upper Bound	0.88	7.1	0.2	127.5	254	5	2	2	4	0.7	17.9	110.5	0.2	1.0	6
UOL8109	3.62	12.7	0.3	136.5	450	17	4	3	8	1.5	18.2	239	<0.1	<0.5	14
DUP	3.09	13.4	0.3	131.5	390	6	2	1	3	1.0	20.3	230	<0.1	<0.5	12
Target Range - Lower Bound	3.18	11.9	0.2	127.0	398	10	2	<1	4	1.1	18.2	223	<0.1	<0.5	11
Upper Bound	3.53	14.2	0.4	141.0	442	13	4	3	7	1.4	20.3	246	0.2	1.0	15
UOL8119	1.20	9.0	0.1	139.0	223	4	1	1	2	0.5	19.7	198.5	<0.1	<0.5	10
DUP	1.00	11.0	0.2	149.5	205	5	1	1	3	0.6	23.1	220	<0.1	<0.5	11
Target Range - Lower Bound	1.04	9.0	<0.1	137.0	202	3	<1	<1	<1	0.4	20.2	198.5	<0.1	<0.5	9
Upper Bound	1.17	11.0	0.2	151.5	226	6	2	2	4	0.7	22.6	220	0.2	1.0	12
UOL8129	0.86	7.1	0.1	87.5	500	20	4	4	10	0.7	10.3	225	<0.1	<0.5	7
DUP	0.57	6.3	0.1	68.2	403	2	1	1	1	0.4	9.5	209	<0.1	<0.5	4
Target Range - Lower Bound	0.67	5.9	<0.1	73.9	428	9	<1	<1	4	0.4	9.3	206	<0.1	<0.5	4
Upper Bound	0.76	7.5	0.2	81.8	475	13	4	4	7	0.7	10.5	228	0.2	1.0	7
UOL9111	1.74	22.2	0.1	352	754	4	1	1	2	1.6	46.6	188.0	<0.1	<0.5	10
DUP	1.45	19.5	<0.1	353	661	4	1	1	2	1.2	51.5	183.0	<0.1	<0.5	10
Target Range - Lower Bound	1.51	19.3	<0.1	335	671	3	<1	<1	<1	1.2	46.5	176.0	<0.1	<0.5	9
Upper Bound	1.68	22.4	0.2	370	744	5	2	2	3	1.6	51.6	195.0	0.2	1.0	12

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Method Analyte Units LOR	ME-MS23 Se ppb	ME-MS23 Sm ppb	ME-MS23 Sn ppb	ME-MS23 Sr ppb	ME-MS23 Ta ppb	ME-MS23 Tb ppb	ME-MS23 Te ppb	ME-MS23 Th ppb	ME-MS23 Ti ppb	ME-MS23 Tl ppb	ME-MS23 Tm ppb	ME-MS23 U ppb	ME-MS23 W ppb	ME-MS23 Y ppb	ME-MS23 Yb ppb
Sample Description	2	0.1	0.2	1	1	0.1	1	0.02	5	0.5	0.1	0.1	1	0.1	0.1
DUPLICATES															
UOL1130	7	26.2	<0.2	4020	<1	3.9	<1	2.32	62	<0.5	0.9	3.4	<1	164.5	5.2
DUP	9	40.9	0.2	2970	<1	6.2	<1	4.51	78	<0.5	1.4	4.6	<1	198.5	7.7
Target Range - Lower Bound	6	31.8	<0.2	3320	<1	4.7	<1	3.22	62	<0.5	1.0	3.7	<1	172.5	6.0
Upper Bound	10	35.3	0.4	3670	2	5.4	2	3.61	79	1.0	1.3	4.3	2	190.5	6.9
UOL1154	6	10.7	<0.2	6830	<1	1.7	<1	1.42	17	<0.5	0.4	0.8	1	61.3	2.2
DUP	7	12.5	<0.2	7310	<1	2.0	<1	1.63	20	<0.5	0.5	0.9	1	65.3	2.8
Target Range - Lower Bound	4	10.9	<0.2	6720	<1	1.7	<1	1.43	13	<0.5	0.3	0.7	<1	60.0	2.3
Upper Bound	9	12.3	0.4	7420	2	2.0	2	1.62	24	1.0	0.6	1.0	2	66.6	2.7
UOL1164	7	33.6	<0.2	6530	<1	5.6	<1	0.74	32	<0.5	1.2	4.0	1	149.0	6.6
DUP	9	35.7	<0.2	6400	<1	6.0	<1	0.88	9	<0.5	1.4	4.3	1	151.5	7.4
Target Range - Lower Bound	6	32.8	<0.2	6140	<1	5.4	<1	0.75	14	<0.5	1.1	3.8	<1	142.5	6.6
Upper Bound	10	36.5	0.4	6790	2	6.2	2	0.87	27	1.0	1.5	4.5	2	158.0	7.5
UOL1174	9	25.7	0.2	4060	<1	3.7	<1	1.38	58	<0.5	0.8	2.1	<1	119.0	4.2
DUP	4	32.1	<0.2	3860	<1	4.6	<1	1.50	19	<0.5	1.0	2.4	<1	118.5	5.1
Target Range - Lower Bound	4	27.4	<0.2	3760	<1	3.8	<1	1.35	32	<0.5	0.8	2.0	<1	112.5	4.3
Upper Bound	9	30.4	0.4	4160	2	4.5	2	1.53	45	1.0	1.0	2.5	2	125.0	5.0
UOL8109	10	38.4	0.3	1520	<1	6.5	<1	16.50	155	0.7	1.5	31.6	<1	154.0	8.4
DUP	15	39.3	<0.2	1420	<1	5.7	<1	12.60	137	0.7	1.2	23.5	<1	114.5	6.6
Target Range - Lower Bound	10	36.8	<0.2	1395	<1	5.7	<1	13.80	134	<0.5	1.2	26.1	<1	127.5	7.0
Upper Bound	15	40.9	0.4	1545	2	6.5	2	15.30	158	1.0	1.5	29.0	2	141.0	8.0
UOL8119	4	32.0	0.5	1470	<1	4.5	<1	7.36	59	0.5	0.9	8.9	<1	100.5	4.8
DUP	8	42.0	<0.2	1500	<1	5.5	<1	7.12	72	0.6	1.1	9.1	<1	108.0	5.8
Target Range - Lower Bound	4	35.1	<0.2	1410	<1	4.7	<1	6.86	57	<0.5	0.9	8.5	<1	98.9	4.9
Upper Bound	8	39.0	0.4	1560	2	5.4	2	7.62	74	1.0	1.2	9.6	2	109.5	5.7
UOL8129	6	31.1	0.2	3190	<1	5.8	<1	1.23	43	0.7	1.6	3.3	<1	131.0	7.8
DUP	9	22.5	<0.2	2960	<1	3.3	<1	0.93	37	0.7	0.6	2.2	<1	62.8	3.4
Target Range - Lower Bound	5	25.4	<0.2	2920	<1	4.2	<1	1.01	33	<0.5	0.9	2.5	<1	92.0	5.2
Upper Bound	10	28.2	0.4	3230	2	4.9	2	1.15	47	1.0	1.3	3.0	2	102.0	6.0
UOL9111	16	109.0	<0.2	3510	<1	17.3	1	5.62	25	0.6	3.0	9.8	<1	384	16.8
DUP	11	99.6	<0.2	3120	<1	14.7	<1	7.36	22	0.7	2.4	10.7	<1	309	13.2
Target Range - Lower Bound	11	99.0	<0.2	3150	<1	15.1	<1	6.15	17	<0.5	2.5	9.6	<1	329	14.2
Upper Bound	16	109.5	0.4	3480	2	16.9	2	6.83	30	1.0	2.9	10.9	2	364	15.9



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QC CERTIFICATE OF ANALYSIS AS12053457

Sample Description	Method Analyte Units LOR	ME-MS23 Zn ppb 10	ME-MS23 Zr ppb 0.1	pH-MS23 Final pH Unity 0.1
DUPLICATES				
UOL1130		40	1.6	9.0
DUP		30	2.3	9.0
Target Range - Lower Bound		20	1.8	8.5
Upper Bound		50	2.1	9.6
UOL1154		70	0.8	9.0
DUP		90	1.0	9.0
Target Range - Lower Bound		70	0.8	8.5
Upper Bound		90	1.0	9.6
UOL1164		30	0.5	9.0
DUP		40	0.4	9.0
Target Range - Lower Bound		20	0.3	8.5
Upper Bound		50	0.6	9.6
UOL1174		40	0.7	9.0
DUP		40	0.6	9.0
Target Range - Lower Bound		30	0.5	8.5
Upper Bound		50	0.8	9.6
UOL8109		310	17.8	8.7
DUP		270	21.4	8.7
Target Range - Lower Bound		270	18.5	8.2
Upper Bound		310	20.7	9.2
UOL8119		130	5.3	9.0
DUP		130	4.8	9.0
Target Range - Lower Bound		110	4.7	8.5
Upper Bound		150	5.4	9.6
UOL8129		50	9.7	8.0
DUP		40	1.8	8.0
Target Range - Lower Bound		30	5.4	7.5
Upper Bound		60	6.1	8.5
UOL9111		60	2.5	8.5
DUP		70	2.6	8.5
Target Range - Lower Bound		50	2.3	8.0
Upper Bound		80	2.8	9.0



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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														
UOL9121		4.6	<2	0.19	480	0.2	<3	0.10	258	5	107.5	52.7	7	4.6	1080	43.6
DUP		4.2	<2	0.13	490	0.8	<3	0.10	265	4	96.5	50.8	8	4.5	992	37.5
Target Range - Lower Bound		4.1	<2	0.13	450	0.3	<3	<0.05	248	3	96.8	48.9	6	4.2	983	38.4
Upper Bound		4.7	4	0.19	520	0.7	6	0.16	275	6	107.0	54.6	9	4.9	1090	42.7
UOL9131		4.3	<2	0.05	600	1.1	<3	<0.05	150.0	3	283	58.5	22	5.8	901	48.7
DUP		3.7	2	0.07	510	0.7	<3	<0.05	135.0	2	258	54.2	18	5.0	776	48.5
Target Range - Lower Bound		3.7	<2	0.04	520	0.7	<3	<0.05	135.0	<1	257	53.2	18	5.0	796	46.1
Upper Bound		4.3	4	0.08	590	1.1	6	0.10	150.0	4	284	59.5	22	5.8	881	51.1



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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														
UOL9121		22.5	24.7	3.7	9.9	87.0	0.8	<0.5	1.9	10.0	0.14	<0.1	79.5	2.0	1.7	52.2
DUP		20.4	21.2	3.6	11.9	75.3	0.9	<0.5	1.5	9.0	0.13	<0.1	71.1	2.3	1.7	53.7
Target Range - Lower Bound		20.3	21.7	3.4	9.9	77.0	0.7	<0.5	1.5	8.9	0.12	<0.1	71.4	1.8	1.5	50.3
Upper Bound		22.6	24.2	3.9	11.9	85.3	1.0	1.0	1.9	10.1	0.15	0.2	79.2	2.5	1.9	55.6
UOL9131		28.0	27.5	4.7	14.3	100.5	1.4	0.5	1.6	11.7	0.12	<0.1	137.5	3.4	2.6	26.3
DUP		27.8	25.8	4.3	13.4	92.3	1.2	0.5	1.3	11.4	0.10	<0.1	129.0	3.1	2.7	22.9
Target Range - Lower Bound		26.4	25.2	4.2	12.7	91.5	1.1	<0.5	1.3	10.9	0.09	<0.1	126.5	2.9	2.4	23.4
Upper Bound		29.4	28.1	4.8	15.0	101.5	1.5	1.0	1.6	12.2	0.13	0.2	140.0	3.6	2.9	25.8



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		Mn	Mo	Nb	Nd	Ni	Pb	Pb 206	Pb 207	Pb 208	Pd	Pr	Rb	Re	Sb	Sc
		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	0.5	1
		DUPLICATES														
UOL9121		1.42	16.7	0.2	299	397	8	2	2	5	1.0	42.8	306	<0.1	<0.5	16
DUP		1.23	14.0	0.2	265	407	7	2	2	4	1.0	38.2	297	<0.1	<0.5	16
Target Range - Lower Bound		1.25	14.1	<0.1	268	381	6	<1	<1	3	0.9	38.4	286	<0.1	<0.5	14
Upper Bound		1.40	16.6	0.3	296	423	9	3	3	6	1.2	42.6	317	0.2	1.0	18
UOL9131		2.71	7.7	0.4	435	258	14	4	3	8	1.3	72.0	281	<0.1	<0.5	22
DUP		2.50	7.1	0.4	408	225	15	4	4	9	1.3	66.2	254	<0.1	<0.5	19
Target Range - Lower Bound		2.46	6.5	0.3	400	228	13	3	2	7	1.1	65.5	254	<0.1	<0.5	18
Upper Bound		2.75	8.3	0.5	443	255	16	5	5	10	1.5	72.7	281	0.2	1.0	23



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		Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U	W	Y	Yb	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
		2	0.1	0.2	1	1	0.1	1	0.02	5	0.5	0.1	0.1	1	0.1	0.1	0.1
		DUPLICATES															
UOL9121		9	80.6	0.2	1935	<1	12.8	<1	9.35	111	0.8	2.2	13.3	<1	224	11.9	
DUP		11	71.2	0.2	2010	<1	10.9	<1	7.52	111	0.6	2.1	10.0	<1	225	11.4	
Target Range - Lower Bound		8	72.0	<0.2	1875	<1	11.2	<1	7.99	100	<0.5	1.9	11.0	<1	213	11.0	
Upper Bound		13	79.8	0.4	2070	2	12.5	2	8.88	122	1.0	2.4	12.3	2	236	12.3	
UOL9131		7	102.0	0.3	689	<1	14.4	1	33.9	194	0.9	2.9	23.1	<1	294	15.9	
DUP		10	93.4	0.2	659	<1	13.6	<1	30.5	195	0.9	3.0	19.6	<1	294	16.9	
Target Range - Lower Bound		6	92.7	<0.2	639	<1	13.2	<1	30.6	180	<0.5	2.7	20.2	<1	279	15.5	
Upper Bound		11	102.5	0.4	709	2	14.8	2	33.8	209	1.0	3.2	22.5	2	309	17.3	



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Sample Description	Method Analyte Units LOR	ME-MS23 Zn ppb 10	ME-MS23 Zr ppb 0.1	pH-MS23 Final pH Unity 0.1
DUPLICATES				
UOL9121		60	3.0	8.7
DUP		60	2.6	8.7
Target Range - Lower Bound		50	2.6	8.2
Upper Bound		70	3.0	9.2
UOL9131		30	6.2	9.0
DUP		30	6.2	9.0
Target Range - Lower Bound		20	5.8	8.5
Upper Bound		40	6.6	9.6