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Page: 1
Finalized Date: 16-JUN-2010
Account: REDMIN

CERTIFICATE PH10067471

Project: ERL94

P.O. No.:

This report is for 182 Soil samples submitted to our lab in Perth, WA, Australia on 1-JUN-2010.

The following have access to data associated with this certificate:

RUSSELL BIRRELL

CRAIG HALL

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: REDBANK COPPER LTD
ATTN: RUSSELL BIRRELL
PO BOX 870
WEST PERTH WA 6872

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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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
		Ag	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppb	ppb	ppb	ppb	ppb	ppb	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
RSO1		1.0	5	0.29	600	0.2	<3	<0.05	57.9	1	115.5	93.8	1	1.0	4220
RSO1A		1.4	<2	0.24	640	0.7	<3	<0.05	58.3	2	217	122.5	4	1.3	6200
RSO1B		2.2	<2	0.27	650	0.9	<3	0.06	61.9	2	260	171.0	3	1.4	6990
RSO2		1.1	3	0.20	1530	2.5	<3	0.12	81.8	5	490	371	5	1.9	7040
RSO2A		1.1	8	0.08	1800	6.4	<3	0.10	97.0	7	824	457	4	2.1	8800
RSO2B		0.8	9	0.05	2160	13.0	<3	0.05	87.1	9	872	414	2	2.0	9780
RSO3		1.7	4	0.20	1360	4.7	<3	0.12	49.1	3	486	157.0	6	3.8	1670
RSO3A		2.4	8	0.25	1780	11.2	<3	0.17	54.3	4	954	211	12	4.4	2620
RSO3B		2.8	5	0.18	1770	13.1	<3	0.24	59.9	5	1120	248	11	4.2	3220
RSO4		0.9	10	0.10	2810	48.1	<3	0.15	35.4	6	1515	469	12	5.0	2300
RSO4A		0.5	19	0.04	3640	105.5	<3	0.13	22.2	12	1415	821	9	5.6	3880
RSO4B		0.4	32	0.04	4080	119.5	<3	0.13	19.1	14	1240	965	10	6.1	4360
RSO5		1.8	3	0.14	2450	31.1	<3	0.24	16.2	3	2320	193.5	13	8.9	4140
RSO5A		2.1	5	0.13	2760	50.8	<3	0.33	20.9	4	3380	250	16	9.2	5290
RSO5B		2.4	8	0.22	2910	67.2	<3	0.33	25.2	4	3540	393	43	15.2	5690
RSO6		1.3	9	0.25	1650	8.9	<3	0.20	22.5	1	1030	919	6	4.7	18800
RSO6A		1.8	15	0.13	2340	22.8	<3	0.20	24.2	1	1995	1145	11	4.7	21100
RSO6B		2.1	23	0.14	2370	27.2	<3	0.22	28.9	2	2520	1430	11	5.1	24000
RSO7		1.7	11	0.11	630	1.1	<3	0.13	48.8	1	173.0	337	6	2.5	16300
RSO7A		2.3	8	0.14	720	1.9	3	0.08	57.5	2	257	397	11	2.9	17000
RSO7B		2.6	9	0.14	690	1.8	<3	0.06	53.5	2	260	358	9	2.5	15400
RSO8		2.0	8	0.21	1200	5.4	<3	0.18	45.0	<1	1090	143.0	12	3.5	8320
RSO8A		3.4	4	0.29	1240	8.9	<3	0.23	55.0	1	1720	203	13	4.1	10350
RSO8B		3.3	7	0.35	1240	7.6	<3	0.17	54.6	1	1700	223	8	3.6	10100
RSO9		2.5	3	0.30	1740	0.7	<3	0.17	62.9	2	312	148.0	3	3.3	4410
RSO9A		3.7	5	0.43	1830	1.3	<3	0.18	67.4	2	314	176.0	2	3.6	5730
RSO9B		4.1	<2	0.48	2090	1.0	<3	0.13	79.9	3	319	208	1	3.6	6330
RSO10		2.4	6	0.66	630	3.7	<3	0.09	31.6	2	666	124.5	9	3.0	8070
RSO10A		3.7	9	0.74	770	5.6	<3	0.15	43.3	3	1015	217	13	3.7	10900
RSO10B		3.3	11	0.61	680	6.8	<3	0.11	42.4	3	944	219	12	3.5	10750
RSO11		5.3	5	0.17	630	0.2	<3	0.05	173.5	1	66.9	193.0	1	1.6	28500
RSO11A		6.3	7	0.19	640	<0.2	<3	<0.05	189.0	1	70.5	244	1	1.6	29600
RSO11B		6.8	5	0.21	650	<0.2	<3	0.06	193.0	1	72.2	281	1	1.7	32800
RSO12		2.1	2	0.27	1180	1.0	<3	0.05	64.9	2	303	51.7	1	2.6	2320
RSO12A		3.4	<2	0.43	1490	1.4	<3	0.14	80.2	2	463	86.9	1	3.0	3740
RSO12B		3.6	<2	0.42	1510	1.8	<3	0.14	84.7	3	481	105.5	1	3.0	4100
RSO13		2.5	<2	0.13	1500	3.3	<3	0.06	50.5	2	576	46.1	<1	3.4	993
RSO13A		3.8	<2	0.18	1830	5.6	<3	0.15	69.8	4	1055	88.6	<1	4.4	1530
RSO13B		4.5	<2	0.21	2010	5.7	<3	0.16	74.0	5	1215	98.8	<1	4.3	1730
RSO14		1.9	4	0.13	1230	4.7	<3	0.06	50.1	3	567	75.7	2	4.7	1670



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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
RSO1		25.2	18.5	4.3	22.2	73.7	1.4	0.9	1.2	9.4	0.14	<0.1	41.9	1.3	2.1	100.5
RSO1A		35.6	25.9	7.7	26.1	103.0	2.2	1.4	1.0	12.8	0.14	<0.1	82.7	120.5	2.9	96.7
RSO1B		49.4	33.8	9.7	27.5	139.5	3.0	1.9	0.9	17.8	0.17	<0.1	98.4	3.2	3.8	100.5
RSO2		63.5	42.0	17.2	59.7	165.5	3.9	2.1	0.5	22.0	0.14	<0.1	184.0	2.5	5.3	79.5
RSO2A		117.0	57.2	31.2	72.1	229	5.2	3.1	0.1	38.0	0.09	0.1	283	3.5	10.5	78.0
RSO2B		163.0	62.1	41.0	80.1	258	5.1	3.6	0.3	51.0	0.05	0.2	264	2.7	15.4	81.5
RSO3		68.9	51.2	14.5	56.8	173.5	4.4	2.6	0.7	24.1	0.32	0.1	183.0	3.0	6.5	58.6
RSO3A		123.0	82.3	27.2	74.9	288	7.1	4.3	0.6	40.8	0.33	0.1	358	6.2	11.7	58.0
RSO3B		155.0	93.1	27.6	75.3	336	8.0	4.8	0.6	52.4	0.38	0.1	407	5.2	13.8	56.3
RSO4		216	114.0	67.9	121.5	393	9.8	5.8	0.5	66.8	0.12	0.4	521	3.2	22.1	50.5
RSO4A		459	135.0	134.0	149.5	485	9.2	8.5	0.2	131.5	0.08	0.7	397	4.8	47.8	51.9
RSO4B		516	129.0	151.0	162.0	474	8.7	9.2	0.1	146.5	0.08	0.9	343	5.8	57.7	53.4
RSO5		329	207	38.6	108.5	676	17.6	9.6	1.5	106.5	0.46	0.1	870	10.6	30.3	45.0
RSO5A		479	302	40.7	120.0	951	23.0	12.6	1.9	156.0	0.52	0.2	1250	11.8	46.0	48.5
RSO5B		510	320	90.8	148.5	1030	25.1	17.6	1.7	168.5	0.55	0.3	1310	37.3	48.7	54.4
RSO6		187.5	95.0	12.0	61.8	372	6.9	4.8	0.6	64.4	0.21	<0.1	372	2.2	19.5	49.1
RSO6A		325	140.0	24.2	89.1	567	10.9	8.1	0.6	103.5	0.20	0.1	688	6.0	35.6	43.8
RSO6B		407	171.5	27.5	92.9	679	13.3	9.6	1.2	129.5	0.21	0.1	833	6.5	45.1	50.5
RSO7		27.2	16.4	10.8	24.2	64.6	1.3	1.1	0.9	9.6	0.17	<0.1	53.8	1.1	2.6	37.9
RSO7A		41.6	23.0	23.3	31.3	91.2	2.0	2.5	0.5	14.5	0.16	<0.1	87.9	5.3	3.9	42.7
RSO7B		37.5	21.9	15.2	28.9	82.3	1.9	1.7	0.5	12.7	0.15	<0.1	87.5	2.9	3.7	41.5
RSO8		111.5	72.1	22.1	54.0	247	5.9	4.5	2.0	37.4	0.54	<0.1	332	8.5	10.2	46.8
RSO8A		192.0	118.0	27.2	53.5	403	9.0	6.9	1.5	64.2	0.73	0.1	485	11.2	17.7	49.6
RSO8B		187.5	104.5	20.6	52.4	355	8.5	5.8	1.4	60.5	0.56	<0.1	473	7.8	17.2	52.7
RSO9		39.5	34.6	9.5	63.4	111.0	2.6	2.1	0.4	13.6	0.32	<0.1	106.0	2.7	3.3	64.6
RSO9A		49.1	41.0	9.5	67.4	136.0	2.7	2.5	1.3	16.8	0.40	<0.1	101.5	3.7	4.2	72.1
RSO9B		53.3	44.0	7.3	75.0	140.0	3.0	2.2	0.7	18.3	0.39	<0.1	104.5	2.4	4.6	92.9
RSO10		105.5	55.8	21.6	30.1	199.0	3.9	4.3	2.5	35.1	0.44	<0.1	179.5	6.8	10.5	36.6
RSO10A		169.0	80.4	29.3	37.0	295	5.9	6.4	2.4	55.2	0.58	0.1	270	9.5	17.0	49.1
RSO10B		166.0	74.7	27.5	34.3	278	5.3	5.9	2.4	53.0	0.51	0.1	246	10.1	17.1	47.2
RSO11		11.0	7.1	3.9	23.5	28.1	0.5	0.8	0.8	3.5	0.08	<0.1	32.7	0.8	1.0	100.5
RSO11A		13.9	7.6	4.8	23.4	30.9	1.0	0.9	1.4	4.4	0.09	<0.1	32.6	1.5	1.3	106.5
RSO11B		15.0	8.1	6.3	26.1	31.6	1.1	1.2	0.7	4.9	0.10	<0.1	32.6	2.1	1.4	108.0
RSO12		32.9	35.4	5.8	44.1	122.5	3.0	1.6	1.3	11.9	0.23	<0.1	127.0	1.9	2.6	78.0
RSO12A		60.3	62.3	8.5	56.5	207	4.9	2.7	0.9	21.8	0.28	<0.1	207	3.3	4.5	94.9
RSO12B		66.5	68.1	8.5	57.3	225	5.1	2.8	1.5	24.5	0.30	<0.1	218	2.9	4.9	93.0
RSO13		102.0	88.1	6.1	56.0	307	7.3	3.5	0.9	36.6	0.20	<0.1	343	2.6	8.4	71.4
RSO13A		238	179.5	8.5	70.7	618	13.1	6.9	0.5	83.4	0.27	<0.1	563	4.0	19.7	86.7
RSO13B		285	210	7.0	72.4	728	14.4	7.7	0.7	100.5	0.29	<0.1	644	3.1	23.2	96.6
RSO14		63.7	55.7	9.7	47.6	194.5	4.8	2.4	1.1	22.4	0.35	<0.1	257	2.3	5.5	64.8



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		Mn	Mo	Nb	Nd	Ni	Pb	Pb 206	Pb 207	Pb 208	Pd	Pr	Rb	Re	Sb
		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
RSO1		1.85	1.8	0.1	251	182	20	5	4	10	2.5	28.5	342	<0.1	<0.5
RSO1A		2.39	1.8	0.2	392	242	19	4	4	10	3.7	48.9	369	<0.1	<0.5
RSO1B		3.44	2.0	0.3	497	293	21	5	4	11	4.7	61.9	379	<0.1	<0.5
RSO2		8.83	1.6	0.2	676	333	50	12	11	26	5.5	93.6	555	<0.1	<0.5
RSO2A		14.80	1.8	0.3	927	537	64	16	14	33	9.1	138.5	517	<0.1	<0.5
RSO2B		16.90	1.1	0.2	958	627	77	18	17	40	10.5	143.5	484	<0.1	<0.5
RSO3		6.41	1.9	0.4	785	157	50	12	11	26	5.9	101.5	561	<0.1	<0.5
RSO3A		9.28	2.5	0.9	1260	226	56	14	12	29	10.9	177.5	561	<0.1	<0.5
RSO3B		11.25	3.0	0.7	1500	263	69	16	15	36	11.6	213	543	<0.1	<0.5
RSO4		16.45	1.2	0.5	1745	328	155	37	33	81	15.9	265	569	<0.1	<0.5
RSO4A		17.25	0.9	0.6	1660	407	263	63	57	137	26.1	248	604	<0.1	<0.5
RSO4B		18.10	0.9	0.8	1560	418	280	66	60	147	27.5	223	600	<0.1	<0.5
RSO5		5.79	3.7	1.1	2970	134	79	19	17	42	23.9	438	667	<0.1	0.7
RSO5A		7.39	4.4	1.3	4010	182	95	23	20	49	32.3	603	720	<0.1	0.9
RSO5B		10.35	4.8	4.6	4380	214	112	27	24	58	42.6	626	793	<0.1	1.9
RSO6		13.15	5.5	0.3	1310	166	43	10	9	22	11.8	191.5	398	<0.1	<0.5
RSO6A		19.75	6.5	0.9	1975	218	33	8	7	17	20.6	313	357	<0.1	0.6
RSO6B		26.4	6.7	0.8	2530	272	35	8	8	18	25.5	391	405	<0.1	0.6
RSO7		5.76	12.2	0.1	248	117	52	12	12	27	2.6	31.9	335	<0.1	<0.5
RSO7A		6.29	11.4	0.9	351	140	34	8	7	18	5.6	47.6	328	<0.1	0.7
RSO7B		5.09	13.3	0.4	326	124	25	6	5	13	4.3	44.2	308	<0.1	0.6
RSO8		2.49	5.2	0.9	1160	64	27	6	6	14	9.9	175.5	412	<0.1	0.6
RSO8A		3.55	7.4	1.0	1745	85	36	9	8	19	15.9	262	452	<0.1	0.7
RSO8B		3.32	6.8	0.8	1650	88	33	8	7	17	14.5	249	455	<0.1	0.6
RSO9		3.25	2.4	0.3	483	132	15	4	3	8	4.4	65.2	510	<0.1	<0.5
RSO9A		3.39	3.0	0.3	537	176	18	4	4	10	5.2	67.2	560	<0.1	<0.5
RSO9B		3.80	2.9	0.2	542	192	16	4	3	9	5.2	65.3	591	<0.1	<0.5
RSO10		5.56	6.3	0.9	768	80	35	8	8	18	11.1	103.5	446	<0.1	<0.5
RSO10A		8.84	8.6	1.6	1075	124	38	9	8	20	15.1	153.0	539	<0.1	0.6
RSO10B		8.46	7.4	1.5	995	122	34	8	7	17	14.1	137.5	504	<0.1	0.6
RSO11		3.55	17.5	0.1	120.5	44	3	1	1	2	1.5	15.7	283	<0.1	<0.5
RSO11A		3.97	15.7	0.2	125.5	50	3	1	1	1	1.9	15.7	273	<0.1	0.5
RSO11B		4.56	17.1	0.4	125.5	53	3	1	1	1	2.5	16.4	301	<0.1	0.6
RSO12		1.43	1.8	0.1	552	153	25	6	5	13	3.3	72.2	505	<0.1	<0.5
RSO12A		2.39	1.9	0.2	911	206	27	7	6	15	5.8	120.0	534	<0.1	<0.5
RSO12B		2.69	2.0	0.3	945	230	30	7	6	15	6.3	123.5	539	<0.1	<0.5
RSO13		1.40	0.9	0.2	1415	157	18	4	4	9	8.7	194.5	509	<0.1	<0.5
RSO13A		2.75	1.2	0.4	2450	261	27	7	6	14	19.0	322	660	<0.1	<0.5
RSO13B		3.02	1.4	0.3	2710	303	30	7	6	16	20.3	368	686	<0.1	<0.5
RSO14		3.93	2.3	0.4	938	143	47	12	10	24	5.6	138.0	694	<0.1	<0.5



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CERTIFICATE OF ANALYSIS PH10067471

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
		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
		2	0.1	0.2	1	1	0.1	1	0.02	5	0.5	0.1	0.1	1	0.1
RSO1		16	70.4	<0.2	120	<1	13.1	<1	7.92	56	<0.5	2.6	10.9	<1	248
RSO1A		19	98.4	0.4	130	<1	17.7	1	12.30	134	<0.5	3.8	13.6	1	356
RSO1B		24	135.0	17.1	128	<1	24.0	1	14.85	242	<0.5	5.0	18.5	1	456
RSO2		39	167.5	0.3	244	<1	29.9	<1	21.8	197	<0.5	7.0	21.0	1	501
RSO2A		50	218	0.6	273	<1	43.4	<1	28.5	233	0.5	14.1	24.9	1	855
RSO2B		37	233	11.3	300	<1	50.3	<1	40.4	194	0.6	20.1	28.6	2	1105
RSO3		39	184.5	0.4	175	<1	31.5	1	37.6	324	0.8	8.0	28.0	1	543
RSO3A		62	291	1.6	193	<1	52.7	1	54.6	712	1.2	14.8	35.9	2	946
RSO3B		75	349	23.1	179	<1	62.9	<1	69.0	603	1.2	17.6	44.1	2	1140
RSO4		85	401	0.5	175	1	76.0	<1	86.1	417	0.7	27.2	44.9	2	1530
RSO4A		98	439	1.1	196	1	110.5	<1	105.5	576	1.1	61.9	67.3	5	2700
RSO4B		65	427	13.5	205	1	110.5	<1	109.5	620	1.4	69.6	79.0	5	2960
RSO5		138	724	1.4	109	1	133.0	1	199.5	1065	1.8	38.0	98.2	3	2420
RSO5A		199	1030	1.4	125	1	193.5	1	267	1080	2.3	56.4	130.0	5	3540
RSO5B		218	1060	32.6	170	1	204	1	298	3990	3.2	63.0	140.5	6	3910
RSO6		87	343	0.3	171	<1	75.1	<1	71.4	212	1.5	22.0	65.6	2	1410
RSO6A		110	499	1.0	189	1	116.0	<1	100.0	685	2.2	40.9	89.5	3	2310
RSO6B		150	625	11.7	212	1	138.5	<1	117.0	652	2.2	53.0	107.5	4	2860
RSO7		19	62.6	0.2	87	<1	12.3	<1	18.25	100	<0.5	3.1	22.8	<1	242
RSO7A		24	85.9	1.2	107	<1	17.2	<1	26.5	654	0.6	4.8	27.8	1	369
RSO7B		16	78.1	21.6	108	<1	15.3	<1	22.5	307	0.5	4.5	24.0	3	337
RSO8		60	253	0.8	156	<1	45.6	1	104.0	757	1.1	13.0	57.0	1	878
RSO8A		86	409	1.1	160	1	76.8	1	156.0	830	1.3	22.6	93.9	2	1480
RSO8B		72	363	4.3	170	<1	68.6	1	123.0	670	1.3	22.4	80.8	2	1350
RSO9		22	116.5	0.2	270	<1	19.5	<1	23.1	218	0.9	4.0	44.2	<1	355
RSO9A		28	139.0	0.2	295	<1	23.2	<1	23.3	277	1.0	4.9	59.2	1	422
RSO9B		29	139.0	1.0	361	<1	24.6	1	16.30	191	1.0	5.7	55.8	1	469
RSO10		47	183.0	0.8	90	<1	38.9	<1	101.0	792	1.0	12.6	67.7	1	885
RSO10A		57	266	1.2	106	<1	59.7	1	145.0	1255	1.4	20.1	106.0	2	1285
RSO10B		60	243	2.5	102	<1	53.9	1	136.0	1205	1.4	20.2	97.5	2	1260
RSO11		11	27.3	<0.2	232	<1	4.8	<1	6.14	50	<0.5	1.2	8.9	<1	108.0
RSO11A		11	29.6	<0.2	253	<1	5.3	<1	6.34	116	<0.5	1.6	10.1	<1	127.5
RSO11B		10	30.4	0.4	267	<1	5.6	<1	6.26	177	0.5	1.8	11.1	1	139.0
RSO12		30	130.5	<0.2	207	<1	19.1	<1	17.65	120	<0.5	3.2	23.2	<1	303
RSO12A		38	228	0.2	258	<1	35.0	<1	23.7	213	<0.5	5.8	39.5	1	519
RSO12B		47	236	2.0	260	<1	38.0	<1	23.7	171	<0.5	6.3	42.8	1	557
RSO13		64	316	0.2	234	<1	52.6	<1	24.9	204	1.0	10.9	42.4	1	885
RSO13A		107	620	0.3	298	1	106.5	1	30.2	315	1.8	25.5	73.7	3	2000
RSO13B		126	723	1.2	305	1	131.0	<1	29.0	193	1.7	29.3	83.1	3	2270
RSO14		34	208	0.2	182	<1	33.7	<1	32.9	296	0.6	6.5	33.5	1	534



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Sample Description	Method	ME-MS23	ME-MS23	pH-MS23
	Analyte	Zn	Zr	Final pH
	Units LOR	ppb	ppb	Unity
		10	0.1	0.1
RSO1		150	5.1	8.3
RSO1A		1760	11.1	8.5
RSO1B		2200	12.9	8.5
RSO2		630	12.8	8.3
RSO2A		2590	16.6	8.1
RSO2B		3900	13.9	8.1
RSO3		450	18.1	8.1
RSO3A		1620	30.0	8.1
RSO3B		2560	32.9	8.1
RSO4		1050	35.3	8.0
RSO4A		3370	43.8	8.0
RSO4B		4540	43.5	8.0
RSO5		200	63.7	8.5
RSO5A		650	75.0	8.5
RSO5B		930	157.5	8.5
RSO6		140	26.3	8.0
RSO6A		660	48.7	8.5
RSO6B		1120	56.5	8.5
RSO7		140	11.7	8.5
RSO7A		720	27.8	8.5
RSO7B		760	18.4	8.5
RSO8		100	38.6	8.5
RSO8A		830	52.3	8.5
RSO8B		1020	44.6	8.7
RSO9		120	21.1	8.5
RSO9A		390	22.6	8.5
RSO9B		680	16.5	8.7
RSO10		90	43.3	8.7
RSO10A		360	61.7	8.5
RSO10B		490	53.8	8.5
RSO11		10	7.7	8.7
RSO11A		50	9.2	8.7
RSO11B		70	12.9	8.5
RSO12		100	11.2	8.5
RSO12A		290	19.4	8.7
RSO12B		370	18.3	8.7
RSO13		110	20.9	8.5
RSO13A		370	33.1	8.7
RSO13B		450	28.8	8.5
RSO14		200	17.9	8.5



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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
RSO14A		2.4	<2	0.13	1150	9.4	<3	0.10	49.4	3	914	94.6	3	5.0	2150	179.5
RSO14B		2.3	2	0.14	1250	9.6	<3	0.10	44.6	3	985	89.2	18	4.5	2160	179.5
RSO15		1.1	4	0.11	990	2.3	<3	0.06	27.5	1	933	210	9	4.3	7360	93.6
RSO15A		1.4	3	0.09	1100	2.7	<3	<0.05	29.8	1	1150	215	10	4.4	8060	112.0
RSO15B		1.2	5	0.13	870	2.6	<3	<0.05	23.1	1	1150	223	7	4.5	7260	133.0
RSO16		1.6	8	0.05	620	2.2	<3	<0.05	80.7	4	591	226	13	4.3	3450	65.0
RSO16A		1.6	12	0.06	640	3.4	<3	<0.05	80.7	4	696	281	19	4.4	4050	76.3
RSO16B		1.6	10	0.06	660	4.1	<3	<0.05	88.6	4	716	312	15	4.2	3830	85.9
RSO17		1.4	4	0.28	950	0.4	<3	<0.05	72.2	3	208	151.0	1	1.7	1240	86.5
RSO17A		1.8	3	0.23	1090	1.4	<3	<0.05	76.5	4	325	220	1	1.7	1920	113.0
RSO17B		2.3	2	0.29	1260	1.7	<3	0.10	96.6	4	396	301	3	1.9	2490	158.5
RSO18		1.3	<2	0.13	2230	9.5	<3	0.08	64.0	8	1735	193.0	4	4.2	1220	365
RSO18A		0.8	4	0.08	2830	19.2	<3	0.11	73.4	11	2780	129.0	2	4.4	1320	601
RSO18B		1.0	<2	0.10	2250	14.0	<3	0.10	63.4	10	2130	186.5	2	4.0	1090	472
RSO19		1.5	<2	0.12	1940	6.2	<3	0.13	45.3	4	778	93.8	1	4.7	2500	334
RSO19A		2.3	<2	0.21	2420	11.6	<3	0.19	62.9	7	1520	137.0	2	5.7	3500	672
RSO19B		2.1	<2	0.17	2100	13.1	<3	0.18	60.9	7	1500	146.5	1	5.2	3580	722
RSO20		1.4	2	0.27	1070	2.8	<3	0.09	41.1	3	298	169.0	2	3.1	2370	114.0
RSO20A		1.4	6	0.29	940	3.4	<3	0.06	34.8	3	385	151.5	1	3.0	2370	141.5
RSO20B		2.1	4	0.20	1320	6.5	<3	0.08	42.5	4	731	299	4	3.3	3450	251
RSO21		1.4	<2	0.20	1400	1.6	<3	0.05	44.9	4	264	231	2	4.6	2410	62.6
RSO21A		1.8	8	0.20	1280	4.6	<3	0.05	42.3	4	469	370	7	5.3	2890	115.0
RSO21B		2.0	6	0.16	1410	6.0	<3	0.07	48.1	5	595	382	6	5.2	2950	149.0
RSO22		1.9	4	0.18	1230	1.6	<3	<0.05	51.1	3	274	116.0	<1	6.7	1330	122.0
RSO22A		2.6	<2	0.20	1380	2.2	<3	0.05	52.4	4	421	184.0	1	6.9	1550	183.5
RSO22B		3.5	<2	0.25	1510	2.3	<3	0.09	62.5	5	488	224	1	7.6	2160	253
RSO23		1.7	8	0.22	1260	2.3	<3	0.07	57.2	4	353	570	5	5.2	4450	71.0
RSO23A		1.8	11	0.17	1280	4.5	<3	0.05	54.1	5	439	678	7	5.6	4440	77.0
RSO23B		2.3	10	0.22	1460	5.3	<3	0.06	64.6	6	563	763	9	6.0	6130	88.0
RSO24		1.0	7	0.20	1000	<0.2	<3	<0.05	60.6	3	70.1	143.5	2	3.3	1780	24.0
RSO24A		1.5	5	0.20	850	0.9	<3	<0.05	59.2	4	133.5	222	4	4.0	2470	39.1
RSO24B		2.0	5	0.27	1280	1.5	<3	<0.05	65.9	4	253	282	4	4.8	3220	65.2
RSO25		2.0	3	0.22	1280	<0.2	<3	<0.05	86.1	2	46.8	126.5	<1	2.4	1710	27.4
RSO25A		2.8	5	0.20	1220	0.2	<3	<0.05	80.2	2	77.9	149.5	3	2.7	2170	43.2
RSO25B		3.3	4	0.26	1230	<0.2	<3	<0.05	87.1	2	82.4	163.0	<1	2.6	2420	47.9
RSO26		1.2	<2	0.18	1490	2.0	<3	<0.05	55.0	5	233	185.0	<1	3.0	2210	57.9
RSO26A		1.2	4	0.18	1430	2.9	<3	<0.05	48.7	5	332	202	<1	2.7	2260	76.1
RSO26B		1.7	<2	0.18	1880	5.9	<3	<0.05	63.1	6	474	308	2	3.2	3260	122.0
RSO27		2.5	2	0.32	1140	9.4	<3	0.06	47.7	4	866	131.5	4	3.6	3690	200
RSO27A		3.5	3	0.33	1280	12.7	<3	0.13	55.7	5	1335	177.0	7	4.3	4760	333



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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
		Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	In	La	Li	Mg
		ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	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	0.01
RSO14A		116.0	87.7	15.5	45.9	308	7.4	4.1	1.1	39.7	0.43	<0.1	379	3.9	53.2
RSO14B		122.5	88.3	13.3	49.4	307	7.3	4.2	0.9	40.6	0.42	<0.1	419	3.5	49.0
RSO15		60.9	45.4	11.5	39.8	170.0	4.9	2.5	0.9	20.5	0.21	<0.1	333	2.8	51.3
RSO15A		73.5	55.4	11.5	42.3	214	5.4	2.9	1.0	25.0	0.22	<0.1	389	2.8	50.7
RSO15B		82.5	59.8	9.5	30.7	234	4.9	2.8	1.4	32.4	0.24	<0.1	400	2.5	39.3
RSO16		40.1	29.6	21.9	23.6	118.5	2.4	2.5	0.5	15.9	0.13	0.1	166.5	2.8	35.9
RSO16A		46.9	32.8	27.9	28.2	133.5	2.8	3.1	0.5	18.7	0.16	0.1	200.0	3.9	27.0
RSO16B		54.7	33.6	26.7	24.3	138.5	2.7	2.8	0.5	21.0	0.13	0.1	198.5	2.4	36.1
RSO17		46.0	39.2	5.2	30.5	151.0	2.5	1.6	0.6	19.6	0.16	<0.1	99.2	1.7	84.4
RSO17A		64.5	50.6	6.5	37.7	201	3.5	2.2	0.6	26.9	0.18	<0.1	153.0	1.7	74.8
RSO17B		87.2	71.0	8.7	42.7	280	4.8	2.9	0.6	36.9	0.22	<0.1	197.5	2.0	90.5
RSO18		202	166.5	14.1	78.9	638	13.0	5.9	0.8	84.0	0.22	<0.1	786	4.8	66.4
RSO18A		390	248	13.7	96.0	972	18.5	8.6	0.4	146.5	0.16	0.1	1025	3.8	83.7
RSO18B		288	191.5	12.2	80.6	746	14.5	6.7	1.0	115.0	0.18	0.1	854	3.2	62.6
RSO19		190.0	155.5	7.9	66.2	556	9.7	5.1	0.8	78.5	0.34	<0.1	482	2.1	45.7
RSO19A		398	299	12.4	82.2	1050	17.3	10.0	1.0	157.0	0.42	<0.1	950	4.0	52.3
RSO19B		446	299	11.9	77.8	1040	18.0	10.1	0.9	173.5	0.39	<0.1	917	3.7	47.7
RSO20		66.6	51.3	5.4	39.4	184.0	3.2	1.8	1.0	27.7	0.28	<0.1	128.5	1.3	68.8
RSO20A		91.6	56.4	5.5	31.1	213	3.4	2.2	0.7	35.9	0.22	<0.1	164.0	1.0	51.5
RSO20B		153.0	102.5	12.4	44.6	370	6.2	4.3	0.6	59.6	0.27	<0.1	348	3.3	60.4
RSO21		34.9	30.1	10.4	46.4	112.0	2.0	1.5	0.7	14.8	0.22	<0.1	94.4	2.2	58.6
RSO21A		67.3	49.2	23.2	47.5	187.5	3.5	2.9	0.8	27.4	0.24	0.1	185.0	6.6	53.8
RSO21B		90.1	61.4	21.3	51.8	238	4.2	3.3	0.5	36.0	0.23	0.1	227	5.7	58.6
RSO22		64.2	59.9	5.6	40.2	215	3.5	2.2	1.5	27.4	0.39	<0.1	138.0	2.0	72.5
RSO22A		101.0	81.4	9.3	46.0	305	4.8	3.6	1.0	42.1	0.44	<0.1	224	3.6	66.1
RSO22B		138.5	112.0	8.7	51.1	423	6.3	4.5	0.7	59.7	0.52	<0.1	265	3.9	75.4
RSO23		40.7	30.4	20.3	43.6	114.0	1.7	2.3	0.5	16.6	0.13	<0.1	91.2	2.9	51.0
RSO23A		48.6	29.2	29.1	44.8	112.5	1.9	3.0	0.5	19.1	0.12	0.1	117.0	4.7	45.3
RSO23B		56.3	35.1	33.2	51.7	137.0	2.4	3.5	0.5	22.6	0.13	0.1	151.5	5.3	48.9
RSO24		12.4	12.1	5.4	33.9	42.4	0.9	0.5	0.8	5.4	0.17	<0.1	23.1	1.0	67.4
RSO24A		21.2	18.5	12.8	30.8	68.0	1.4	1.1	0.6	9.0	0.18	<0.1	49.5	2.6	60.4
RSO24B		36.0	31.9	15.8	43.4	114.0	2.3	1.6	0.7	14.8	0.22	<0.1	103.0	3.7	67.2
RSO25		13.3	14.8	3.9	43.6	55.5	1.0	0.7	1.2	6.0	0.18	<0.1	31.7	1.4	87.9
RSO25A		22.1	23.5	5.8	39.6	88.1	1.7	1.1	0.7	9.9	0.22	<0.1	59.8	2.5	81.8
RSO25B		24.9	26.1	4.7	40.1	98.3	1.8	1.0	0.7	11.0	0.24	<0.1	64.6	1.4	87.2
RSO26		29.7	32.0	4.7	51.3	113.0	2.4	1.1	0.6	12.7	0.17	<0.1	111.0	1.0	52.1
RSO26A		43.1	38.3	5.5	46.4	143.5	2.8	1.5	0.8	18.0	0.14	<0.1	154.5	1.1	41.2
RSO26B		67.0	60.7	9.0	63.5	222	4.2	2.4	0.5	27.9	0.19	<0.1	245	1.9	49.9
RSO27		115.5	96.7	22.0	43.3	349	7.2	4.4	1.4	46.3	0.51	0.1	387	7.0	48.4
RSO27A		200	154.0	32.9	52.1	552	11.1	7.8	1.0	79.6	0.60	0.1	555	12.8	51.9



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CERTIFICATE OF ANALYSIS PH10067471

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 ppm	Mo ppb	Nb ppb	Nd ppb	Ni ppb	Pb ppb	Pb 206 ppb	Pb 207 ppb	Pb 208 ppb	Pd ppb	Pr ppb	Rb ppb	Re ppb	Sb ppb
		0.01	0.5	0.1	0.1	1	1	1	1	1	0.1	0.1	0.1	0.1	0.5
RSO14A		4.93	2.7	0.7	1420	179	60	15	13	31	9.7	205	617	<0.1	<0.5
RSO14B		4.85	3.2	0.5	1470	248	47	12	10	24	9.9	220	583	<0.1	<0.5
RSO15		5.64	5.0	0.6	904	96	43	10	9	22	6.1	143.0	359	<0.1	0.6
RSO15A		5.81	4.6	0.7	1150	106	44	10	10	23	7.0	173.0	341	<0.1	0.6
RSO15B		5.43	4.0	0.7	1135	107	58	14	13	30	5.6	210	325	<0.1	0.6
RSO16		9.79	2.2	0.7	505	157	87	20	19	46	4.3	90.6	373	<0.1	0.5
RSO16A		11.65	2.7	1.0	579	167	89	21	20	47	5.3	101.0	308	<0.1	0.7
RSO16B		12.50	2.2	0.8	570	180	118	29	27	61	5.1	96.3	335	<0.1	0.6
RSO17		6.38	1.5	0.1	549	184	38	9	8	20	3.0	77.4	517	<0.1	<0.5
RSO17A		9.17	1.9	0.1	756	244	33	8	7	17	4.4	111.0	461	<0.1	<0.5
RSO17B		13.15	2.6	0.2	1000	318	27	6	6	14	5.8	146.5	534	<0.1	<0.5
RSO18		10.55	1.4	0.5	2710	298	42	10	9	22	12.1	455	564	<0.1	<0.5
RSO18A		13.05	0.8	0.3	3880	371	94	23	20	50	18.8	679	651	<0.1	<0.5
RSO18B		11.40	1.1	0.3	3040	312	63	15	14	33	14.2	508	548	<0.1	<0.5
RSO19		4.29	1.8	0.3	2060	140	38	9	8	20	10.4	319	575	<0.1	<0.5
RSO19A		6.83	1.9	0.4	3630	207	50	12	11	26	19.9	594	656	<0.1	<0.5
RSO19B		7.00	1.7	0.5	3720	216	51	13	11	27	21.7	586	613	<0.1	<0.5
RSO20		5.16	1.9	0.1	636	174	50	13	11	26	4.2	94.1	605	<0.1	<0.5
RSO20A		4.59	1.8	0.1	742	176	47	11	10	24	5.2	114.0	500	<0.1	<0.5
RSO20B		9.08	2.2	0.3	1335	244	42	10	9	22	9.5	217	532	<0.1	<0.5
RSO21		5.94	1.7	0.3	443	194	48	12	10	25	2.7	66.0	642	<0.1	<0.5
RSO21A		10.30	1.9	0.7	699	264	64	16	14	33	5.9	113.0	624	<0.1	<0.5
RSO21B		11.35	1.6	0.7	889	308	67	16	15	35	6.7	142.5	631	<0.1	0.5
RSO22		3.19	1.3	0.2	724	200	34	9	7	18	4.8	105.0	641	<0.1	<0.5
RSO22A		4.21	1.3	0.4	1015	241	37	9	8	20	7.4	154.5	591	<0.1	<0.5
RSO22B		4.58	1.5	0.4	1310	287	34	9	8	18	10.3	190.5	623	<0.1	<0.5
RSO23		14.60	2.9	0.3	353	298	81	20	17	42	3.9	53.8	578	<0.1	0.6
RSO23A		16.45	3.4	0.5	390	377	93	23	20	49	4.9	63.4	539	<0.1	0.9
RSO23B		19.35	4.2	0.6	468	434	82	20	18	43	6.7	77.9	536	<0.1	1.0
RSO24		3.94	1.8	0.1	143.0	161	54	13	12	28	1.1	19.0	545	<0.1	<0.5
RSO24A		6.15	2.0	0.3	238	207	59	14	13	31	2.2	34.6	531	<0.1	<0.5
RSO24B		8.50	2.9	0.4	435	251	60	15	13	32	3.2	67.2	599	<0.1	<0.5
RSO25		2.72	1.7	0.1	182.5	177	29	7	6	15	1.3	24.1	513	<0.1	<0.5
RSO25A		3.50	1.6	0.2	307	187	32	8	7	17	2.2	41.5	491	<0.1	<0.5
RSO25B		3.77	1.8	0.1	341	191	33	8	8	17	2.1	45.2	490	<0.1	<0.5
RSO26		5.35	1.2	0.1	470	237	48	12	10	25	2.2	69.5	631	<0.1	<0.5
RSO26A		6.04	1.1	0.1	599	268	43	11	9	23	3.1	93.5	516	<0.1	<0.5
RSO26B		9.19	1.7	0.2	873	362	48	12	11	25	4.8	137.0	587	<0.1	<0.5
RSO27		3.20	1.8	1.0	1540	240	33	8	7	17	8.7	249	597	<0.1	<0.5
RSO27A		4.46	2.1	1.3	2190	352	38	9	8	20	14.1	351	626	<0.1	0.6



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CERTIFICATE OF ANALYSIS PH10067471

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
		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
		2	0.1	0.2	1	1	0.1	1	0.02	5	0.5	0.1	0.1	1	0.1
RSO14A		54	313	0.5	166	<1	54.0	1	55.5	501	0.7	12.7	51.3	1	910
RSO14B		45	331	2.9	172	<1	55.8	<1	56.4	403	0.8	13.2	53.3	1	951
RSO15		33	179.0	0.5	157	<1	29.0	<1	69.6	381	1.0	6.8	29.3	1	509
RSO15A		35	224	0.5	160	<1	35.4	<1	85.2	394	1.2	8.5	35.5	1	604
RSO15B		34	242	2.1	155	<1	36.9	<1	86.2	391	1.2	9.2	40.7	1	575
RSO16		14	116.5	0.6	271	<1	17.9	1	62.6	405	0.7	4.7	27.6	1	308
RSO16A		28	129.5	0.8	239	<1	20.3	<1	84.7	608	0.8	5.7	34.9	1	350
RSO16B		22	129.5	3.6	267	<1	21.7	<1	71.7	370	0.8	6.8	32.1	1	403
RSO17		34	155.5	<0.2	216	<1	24.5	<1	14.60	106	0.7	4.7	21.5	1	370
RSO17A		42	202	0.3	245	<1	31.2	<1	20.2	135	0.8	6.8	26.7	1	494
RSO17B		53	278	4.1	297	<1	44.9	<1	21.3	192	1.0	9.3	37.1	1	671
RSO18		139	656	0.4	295	1	99.0	<1	54.0	454	1.1	22.7	42.9	2	1455
RSO18A		193	985	0.4	342	1	164.5	1	62.0	287	1.3	45.3	50.0	4	2620
RSO18B		147	751	2.8	284	1	119.5	1	55.6	295	1.1	34.0	46.0	3	1920
RSO19		122	569	0.2	271	<1	91.6	<1	43.1	226	1.3	21.1	71.3	2	1380
RSO19A		212	1055	0.4	313	1	178.0	<1	60.2	381	1.9	44.3	119.5	4	2650
RSO19B		225	1035	1.9	294	1	179.0	<1	54.8	421	1.8	53.3	112.5	4	2920
RSO20		45	171.5	<0.2	173	<1	29.6	1	20.4	97	0.7	7.3	36.0	1	546
RSO20A		37	194.0	0.2	137	<1	35.7	<1	22.1	104	0.7	10.6	36.9	1	724
RSO20B		67	348	5.2	187	<1	63.2	<1	38.0	285	0.9	18.2	56.4	2	1205
RSO21		10	106.5	0.3	210	<1	17.6	<1	18.20	202	0.8	3.7	26.5	<1	300
RSO21A		44	177.5	0.8	191	<1	30.8	<1	33.8	598	1.1	7.6	37.8	1	537
RSO21B		47	222	10.1	201	<1	39.4	<1	39.0	613	1.1	10.1	40.3	1	702
RSO22		53	205	0.2	278	<1	34.2	<1	19.00	161	1.0	6.7	46.6	1	568
RSO22A		56	280	0.3	287	<1	50.8	<1	29.4	327	1.4	10.8	62.6	1	859
RSO22B		93	369	1.6	335	<1	67.9	1	31.8	384	1.7	15.0	81.4	1	1190
RSO23		46	92.9	0.3	230	<1	18.4	<1	29.3	231	1.0	4.7	54.7	1	343
RSO23A		41	100.0	0.8	213	<1	19.5	<1	37.8	530	1.1	5.6	66.5	1	382
RSO23B		46	117.5	20.7	259	<1	22.2	1	45.5	629	1.4	6.6	80.5	1	444
RSO24		12	40.4	<0.2	210	<1	6.6	<1	5.15	56	0.6	1.4	14.4	<1	121.5
RSO24A		13	64.0	0.4	186	<1	10.5	<1	9.27	239	0.7	2.2	19.2	<1	202
RSO24B		12	113.5	12.6	243	<1	18.1	<1	17.40	340	1.1	3.8	28.4	<1	324
RSO25		9	51.0	<0.2	286	<1	7.8	<1	5.21	112	0.5	1.3	14.5	<1	139.5
RSO25A		9	84.5	0.2	279	<1	12.6	<1	8.76	144	0.6	2.2	20.8	<1	222
RSO25B		16	92.5	0.9	289	<1	14.0	<1	9.11	86	0.6	2.4	23.0	<1	252
RSO26		18	113.0	<0.2	287	<1	16.7	<1	12.80	96	0.7	3.1	19.2	<1	271
RSO26A		28	141.0	<0.2	241	<1	21.5	<1	15.65	103	0.7	4.6	21.5	<1	355
RSO26B		40	212	4.1	321	<1	33.2	<1	23.7	181	0.9	7.6	31.3	1	548
RSO27		71	366	0.8	208	<1	56.9	1	38.0	860	0.8	12.3	54.0	1	864
RSO27A		118	569	1.4	226	1	89.5	1	50.5	1335	1.0	22.3	78.4	2	1495



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Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	pH-MS23
		Zn	Zr	Final pH
		ppb	ppb	Unity
		10	0.1	0.1
RSO14A		480	29.3	8.5
RSO14B		540	27.4	8.5
RSO15		50	24.6	8.5
RSO15A		220	23.8	8.5
RSO15B		250	22.6	8.7
RSO16		290	27.1	8.0
RSO16A		460	36.8	8.5
RSO16B		630	34.4	8.5
RSO17		330	7.5	8.7
RSO17A		670	11.9	8.5
RSO17B		1050	14.6	8.5
RSO18		440	20.7	8.5
RSO18A		1050	18.9	8.0
RSO18B		910	17.4	8.0
RSO19		240	19.6	8.5
RSO19A		460	27.9	8.5
RSO19B		570	26.4	8.1
RSO20		410	8.3	8.7
RSO20A		650	8.6	8.7
RSO20B		820	16.4	8.7
RSO21		540	11.8	8.5
RSO21A		860	31.4	8.7
RSO21B		1080	25.5	8.7
RSO22		470	11.4	8.7
RSO22A		660	20.2	8.5
RSO22B		770	21.8	8.5
RSO23		840	21.4	8.5
RSO23A		2270	32.0	8.5
RSO23B		3280	39.2	8.5
RSO24		570	3.9	8.5
RSO24A		1240	9.9	8.7
RSO24B		1430	15.3	8.7
RSO25		320	4.1	8.7
RSO25A		520	7.4	8.7
RSO25B		530	7.2	8.7
RSO26		530	6.1	8.7
RSO26A		740	7.6	8.7
RSO26B		960	13.1	8.7
RSO27		390	33.2	8.7
RSO27A		830	51.5	8.5



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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
		Ag	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppb	ppb	ppb	ppb	ppb	ppb	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
RSO27B		4.0	<2	0.39	1350	13.1	<3	0.17	65.0	7	1560	231	5	4.4	5130
RSO28		1.6	8	0.64	1850	55.7	<3	<0.05	32.2	8	1740	710	19	4.4	8260
RSO28A		2.0	16	0.12	1870	110.0	<3	0.05	26.1	11	2550	774	29	6.2	10000
RSO28B		2.1	15	0.12	1900	123.5	<3	0.05	23.1	13	2770	817	27	5.9	10650
RSO29		1.1	6	0.07	2730	60.1	<3	0.08	61.1	11	2000	280	8	3.3	2130
RSO29A		0.9	11	0.05	2790	95.2	<3	0.06	63.6	15	2820	225	5	3.3	3000
RSO29B		1.2	13	0.06	3090	83.2	<3	0.07	52.2	11	2140	376	11	3.2	2460
RSO30		1.9	4	0.15	1760	22.6	<3	0.07	24.2	4	1745	219	5	5.1	2500
RSO30A		2.9	4	0.14	3600	78.0	<3	0.19	31.8	5	5790	388	9	6.5	4200
RSO30B		3.1	7	0.13	3900	102.0	<3	0.19	38.2	6	7800	392	8	6.7	4810
RSO31		2.0	<2	0.22	2700	6.6	<3	0.09	64.5	4	893	132.0	5	4.1	1815
RSO31A		2.2	<2	0.15	3040	11.4	<3	0.12	68.9	5	1460	251	6	4.2	2070
RSO31B		2.7	<2	0.17	3230	12.8	<3	0.13	78.9	6	1870	217	5	4.0	2280
RSO32		1.6	<2	0.22	1830	6.7	<3	0.10	21.2	3	747	260	2	4.7	1820
RSO32A		2.2	<2	0.19	1870	16.3	<3	0.14	20.1	4	1530	287	4	4.9	2240
RSO33		1.8	<2	0.11	2720	4.5	<3	0.11	66.4	2	566	87.9	3	4.4	1060
RSO33A		2.2	2	0.13	3160	6.1	<3	0.15	80.8	3	945	118.0	3	4.6	1395
RSO33B		2.5	3	0.08	3530	6.9	<3	0.15	88.0	3	1205	154.0	3	4.8	1490
RSO34		2.1	12	0.30	850	7.3	<3	0.14	65.1	1	1620	177.5	16	1.9	22800
RSO34A		2.8	14	0.33	870	11.5	<3	0.17	72.8	1	2220	355	17	2.2	29600
RSO34B		2.5	10	0.32	770	9.3	<3	0.14	63.2	1	1950	272	15	1.9	26500
RSO35		3.8	3	0.13	1180	0.2	<3	0.06	99.7	2	54.5	250	<1	1.3	30500
RSO35A		4.8	3	0.13	1150	0.3	<3	0.06	111.5	3	90.0	332	1	1.5	34400
RSO35B		5.1	4	0.17	1220	0.3	<3	0.06	116.0	3	107.0	358	1	1.5	36500
RSO36		1.8	3	0.22	1060	0.6	<3	0.09	56.7	1	320	157.0	2	2.0	12700
RSO36A		4.0	2	0.29	1130	1.0	<3	0.11	60.9	1	555	180.5	4	2.2	15800
RSO36B		2.9	<2	0.33	1240	0.8	<3	0.09	67.3	1	570	237	1	2.0	17000
RSO37		1.1	3	0.08	890	0.3	<3	<0.05	63.0	2	113.5	156.0	2	2.0	7880
RSO37A		1.9	<2	0.13	960	0.4	<3	0.05	69.2	2	171.5	219	2	2.0	11950
RSO37B		1.8	2	0.13	980	0.4	<3	0.05	69.7	2	192.0	176.0	2	1.8	11500
RSO38		2.3	2	0.14	630	0.2	<3	0.09	83.5	1	47.4	92.6	1	1.9	4650
RSO38A		3.5	2	0.20	700	0.2	<3	0.13	98.2	1	55.8	128.5	<1	2.0	6680
RSO38B		3.7	<2	0.23	690	0.3	<3	0.12	95.4	1	51.1	135.0	<1	2.0	7500
RSO39		1.6	<2	0.04	1980	0.2	<3	<0.05	91.2	1	48.5	138.0	20	1.1	540
RSO39A		2.0	<2	0.03	1710	0.2	<3	0.05	85.4	1	72.6	191.5	<1	1.1	759
RSO39B		2.5	<2	0.04	1990	0.2	<3	0.07	101.5	2	100.5	284	<1	1.1	1125
RSO40		2.4	3	0.07	1330	0.2	<3	0.12	89.6	1	62.9	302	<1	1.4	1905
RSO40A		3.3	3	0.07	1170	0.3	<3	0.14	93.5	2	63.6	391	<1	1.5	2540
RSO40B		4.2	3	0.10	1300	0.4	<3	0.21	101.5	2	66.0	520	<1	1.4	3150
RSO41		0.8	2	0.10	1150	0.3	<3	<0.05	83.3	1	46.4	193.5	<1	1.6	972



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CERTIFICATE OF ANALYSIS PH10067471

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
RSO27B		252	183.0	32.1	53.8	656	11.8	8.1	1.1	100.5	0.63	0.1	658	12.1	20.9	56.0
RSO28		157.0	99.7	56.9	70.3	382	7.5	5.7	0.3	61.6	0.11	0.3	512	5.2	15.1	31.0
RSO28A		253	131.5	110.5	76.3	532	9.9	9.9	0.6	96.1	0.09	0.6	736	16.3	25.2	24.7
RSO28B		304	143.0	117.0	75.0	588	10.2	10.1	0.4	115.5	0.08	0.6	768	14.6	30.7	22.1
RSO29		173.5	102.0	35.4	92.1	396	8.2	5.3	1.0	65.4	0.17	0.3	651	3.1	16.3	34.2
RSO29A		265	138.5	45.7	95.2	550	10.7	7.1	1.1	100.0	0.12	0.6	780	3.6	24.5	36.4
RSO29B		201	109.5	42.7	102.0	433	8.2	5.9	0.6	74.8	0.21	0.4	726	3.1	20.0	20.7
RSO30		238	174.0	15.7	61.5	630	12.4	6.1	1.2	94.9	0.30	0.1	854	3.4	22.7	41.7
RSO30A		615	392	34.7	115.0	1565	16.3	10.8	1.1	236	0.38	0.1	2240	7.6	62.2	46.6
RSO30B		796	480	38.5	123.0	1935	19.8	12.5	1.7	307	0.34	0.2	2850	7.9	78.4	53.4
RSO31		79.3	79.6	14.3	79.8	295	3.4	2.6	1.0	33.2	0.29	<0.1	325	4.1	6.7	53.0
RSO31A		139.5	119.0	17.6	90.5	453	4.8	3.8	1.0	55.9	0.32	<0.1	509	4.2	12.0	48.6
RSO31B		187.0	149.5	16.8	93.3	582	5.7	4.3	0.8	75.5	0.31	<0.1	621	4.2	16.0	54.7
RSO32		108.5	96.0	10.1	50.1	355	3.5	2.3	0.8	45.0	0.29	<0.1	299	1.3	10.1	73.3
RSO32A		201	151.5	17.0	54.8	579	5.7	4.1	0.7	80.0	0.32	0.1	652	2.7	18.8	61.6
RSO33		121.0	90.4	8.9	78.4	329	3.0	3.2	1.4	49.3	0.26	<0.1	261	2.3	11.0	42.9
RSO33A		217	142.0	11.0	89.7	536	4.2	4.7	0.8	87.6	0.31	<0.1	396	2.7	19.1	45.7
RSO33B		293	176.5	12.1	103.0	660	5.4	5.5	0.7	114.5	0.31	<0.1	494	2.7	26.5	51.4
RSO34		212	92.0	30.6	38.3	434	4.2	5.3	2.2	82.0	0.30	0.1	392	11.6	19.1	62.4
RSO34A		319	119.0	39.5	42.9	571	5.6	6.5	1.3	117.5	0.30	0.1	527	16.3	28.4	66.9
RSO34B		262	101.5	33.1	35.2	489	4.7	5.6	2.3	98.6	0.29	0.1	470	11.8	23.9	56.3
RSO35		11.0	7.3	3.8	31.4	32.7	0.3	0.5	1.6	4.4	0.13	<0.1	24.2	0.9	0.9	93.6
RSO35A		18.4	10.2	5.5	30.9	45.5	0.5	0.7	0.7	7.2	0.16	<0.1	39.7	3.5	1.8	99.5
RSO35B		23.6	12.3	6.7	31.6	54.5	0.5	0.9	0.5	8.9	0.17	<0.1	49.3	1.2	2.3	105.0
RSO36		35.9	34.8	7.4	30.7	128.5	1.2	1.4	1.5	15.4	0.28	<0.1	98.5	1.6	3.0	63.0
RSO36A		58.8	53.6	11.2	33.0	195.0	2.0	2.1	1.9	24.4	0.33	<0.1	171.0	2.4	4.8	63.9
RSO36B		72.3	61.4	6.6	32.9	230	1.9	2.1	2.5	29.8	0.32	<0.1	175.0	1.4	5.9	73.0
RSO37		17.2	15.1	6.8	25.1	58.2	0.5	0.8	1.2	7.6	0.23	<0.1	34.5	1.8	1.5	57.4
RSO37A		26.4	20.9	7.4	27.4	81.1	0.7	1.0	0.8	11.0	0.25	<0.1	52.3	1.9	2.1	62.8
RSO37B		25.8	21.7	7.6	28.2	83.0	0.9	1.1	0.9	10.9	0.21	<0.1	59.8	1.9	2.1	59.1
RSO38		9.6	10.1	2.8	16.8	37.9	0.4	0.5	0.9	4.2	0.35	<0.1	21.2	1.0	0.8	99.0
RSO38A		12.8	13.3	2.9	18.9	51.5	0.4	0.7	1.3	5.8	0.46	<0.1	24.8	0.9	0.9	118.0
RSO38B		11.9	13.0	2.8	18.5	48.7	0.4	0.7	1.0	5.3	0.49	<0.1	22.9	1.0	0.9	116.0
RSO39		11.7	14.3	2.2	50.8	51.0	0.5	<0.5	0.9	5.1	0.15	<0.1	28.5	1.5	0.9	155.5
RSO39A		15.4	18.8	3.3	44.6	67.5	0.6	0.6	0.9	6.8	0.17	<0.1	41.2	2.2	1.1	137.5
RSO39B		23.7	26.9	3.7	51.9	97.2	0.8	0.7	0.4	10.5	0.20	<0.1	52.3	2.1	1.8	146.5
RSO40		8.1	7.7	3.9	34.7	29.4	0.3	0.5	0.3	3.4	0.27	<0.1	18.8	1.8	0.7	135.5
RSO40A		8.3	8.4	4.1	30.1	32.3	0.4	0.5	0.3	3.5	0.35	<0.1	19.7	1.6	0.7	145.5
RSO40B		10.1	9.0	5.2	33.5	35.7	0.4	0.5	0.3	4.3	0.43	<0.1	20.3	1.3	0.8	147.0
RSO41		5.1	5.7	4.3	29.6	22.6	0.3	<0.5	0.4	2.3	0.12	<0.1	15.0	0.7	0.4	91.1



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CERTIFICATE OF ANALYSIS PH10067471

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	Rb	Re	Sb
		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
RSO27B		5.46	2.1	1.4	2460	417	41	10	9	21	15.3	397	657	<0.1	215
RSO28		12.50	2.1	0.6	1575	432	181	45	39	94	11.7	289	664	<0.1	452
RSO28A		13.10	2.0	1.8	2040	584	213	53	47	110	18.9	366	665	<0.1	669
RSO28B		14.55	2.0	1.7	2150	654	232	58	50	121	18.4	406	643	<0.1	750
RSO29		16.10	1.3	0.4	1795	521	129	33	28	67	10.7	323	586	<0.1	462
RSO29A		15.60	0.9	0.5	2270	666	183	45	40	95	14.8	433	589	<0.1	624
RSO29B		17.90	1.5	0.5	1930	564	115	28	25	60	11.6	350	510	<0.1	559
RSO30		6.07	2.3	0.4	2720	134	85	21	19	44	13.9	466	562	<0.1	233
RSO30A		11.40	3.1	0.9	6110	249	121	29	26	64	24.4	1020	650	<0.1	588
RSO30B		12.85	2.8	1.0	7630	305	126	31	27	67	29.5	1310	674	<0.1	741
RSO31		6.50	1.7	0.5	1190	228	35	8	8	18	3.8	175.5	649	<0.1	104
RSO31A		13.95	2.0	0.5	1730	317	41	10	9	22	5.8	265	598	<0.1	140
RSO31B		11.30	1.9	0.5	2110	383	41	10	9	22	7.2	327	632	<0.1	150
RSO32		9.84	1.6	0.1	1265	210	85	21	18	45	4.3	181.0	664	<0.1	140
RSO32A		10.15	1.5	0.3	2110	286	85	21	19	45	8.0	330	635	<0.1	223
RSO33		4.27	1.0	0.3	1040	130	38	9	8	20	5.6	144.5	614	<0.1	64
RSO33A		6.00	1.2	0.4	1550	179	46	11	10	24	9.0	221	635	<0.1	83
RSO33B		8.10	1.4	0.4	1930	208	44	11	10	23	11.5	277	704	<0.1	85
RSO34		2.97	1.9	1.0	1345	137	25	6	5	13	8.6	211	351	<0.1	154
RSO34A		5.88	2.1	1.4	1790	190	29	7	6	15	11.5	284	367	<0.1	229
RSO34B		4.66	2.0	1.0	1540	169	21	5	5	11	9.4	247	332	<0.1	184
RSO35		5.99	5.8	0.1	92.9	148	7	2	2	4	0.6	12.7	348	<0.1	19
RSO35A		9.78	5.6	0.1	139.5	184	5	1	1	3	1.0	19.5	334	<0.1	28
RSO35B		12.50	6.2	0.1	169.0	199	8	2	2	4	1.3	24.3	322	<0.1	31
RSO36		3.97	4.5	0.2	457	96	26	6	6	14	1.9	63.1	470	<0.1	58
RSO36A		3.98	3.8	0.3	700	115	24	6	5	13	3.1	101.5	435	<0.1	78
RSO36B		5.20	3.1	0.2	754	136	24	6	5	13	3.3	105.0	429	<0.1	70
RSO37		4.74	3.5	0.1	170.5	124	27	6	6	14	1.1	22.1	508	<0.1	23
RSO37A		6.36	3.0	0.2	237	149	25	6	5	13	1.4	31.8	496	<0.1	27
RSO37B		5.04	2.9	0.3	266	134	19	4	4	10	1.5	35.9	432	<0.1	27
RSO38		2.48	2.9	<0.1	114.5	106	16	4	3	8	0.7	14.1	433	<0.1	20
RSO38A		3.56	2.8	0.1	144.0	122	12	3	3	6	0.8	17.5	443	<0.1	23
RSO38B		3.22	3.0	<0.1	135.5	121	12	3	3	6	0.8	16.1	441	<0.1	22
RSO39		2.75	0.7	<0.1	159.5	136	19	5	4	10	0.6	19.0	340	<0.1	10
RSO39A		4.62	0.8	<0.1	220	170	15	4	3	8	0.9	27.5	318	<0.1	12
RSO39B		7.89	1.1	0.1	298	229	16	4	3	9	1.3	36.4	322	<0.1	13
RSO40		9.30	1.5	<0.1	90.8	133	14	3	3	8	0.6	11.7	412	<0.1	12
RSO40A		12.25	1.7	<0.1	96.3	172	13	3	3	7	0.6	12.1	424	<0.1	13
RSO40B		16.20	2.3	<0.1	97.8	226	10	2	2	5	0.7	11.9	384	<0.1	14
RSO41		5.45	1.5	0.1	71.4	104	12	3	3	6	0.4	8.9	368	<0.1	11



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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
		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
		2	0.1	0.2	1	1	0.1	1	0.02	5	0.5	0.1	0.1	1	0.1
RSO27B		126	654	5.1	235	1	110.0	1	50.4	1225	1.0	27.4	86.7	3	1765
RSO28		91	360	0.9	122	<1	64.2	<1	104.0	505	0.9	18.9	48.2	2	1140
RSO28A		106	476	2.4	99	1	90.2	<1	133.5	1590	1.3	33.0	64.8	3	1765
RSO28B		111	529	11.1	89	1	104.0	<1	142.5	1440	1.3	38.6	72.9	3	2040
RSO29		83	398	0.5	274	<1	68.0	<1	116.0	359	1.0	20.5	39.9	2	1170
RSO29A		111	546	0.6	276	1	97.0	<1	131.5	460	1.1	31.9	45.2	3	1800
RSO29B		88	433	4.8	237	<1	75.7	<1	144.0	399	1.2	24.7	52.9	2	1305
RSO30		131	625	0.6	142	1	103.5	<1	65.7	389	1.1	28.0	78.1	2	1925
RSO30A		114	1335	1.0	163	1	232	<1	150.0	705	2.5	77.9	150.5	5	5730
RSO30B		150	1645	6.2	172	1	290	<1	152.5	706	2.7	99.1	161.5	6	7310
RSO31		24	289	0.4	321	<1	40.2	<1	40.3	345	1.2	8.3	44.1	1	715
RSO31A		36	427	0.5	328	<1	64.5	<1	54.3	355	2.1	15.2	63.1	1	1180
RSO31B		45	526	2.4	349	<1	82.8	<1	51.8	341	1.6	20.6	71.7	1	1570
RSO32		28	327	58.8	120	<1	51.0	<1	29.1	112	1.0	11.7	39.8	1	981
RSO32A		49	519	16.7	105	<1	84.7	<1	49.6	237	1.3	22.6	55.0	1	1800
RSO33		28	274	0.2	384	<1	49.5	<1	29.5	182	1.7	13.3	49.4	1	1215
RSO33A		48	421	0.5	407	<1	82.3	<1	35.4	244	2.1	24.0	69.3	2	2050
RSO33B		54	530	5.2	463	<1	104.0	<1	35.3	315	2.7	34.0	80.0	2	2670
RSO34		36	359	0.8	101	<1	69.6	<1	55.8	711	0.6	25.0	40.1	2	1790
RSO34A		50	467	1.2	103	<1	96.8	<1	60.1	1080	0.7	37.2	53.5	2	2500
RSO34B		40	398	4.0	94	<1	80.4	<1	59.1	749	0.6	31.9	47.3	2	2110
RSO35		5	25.3	<0.2	190	<1	4.5	<1	4.98	41	0.5	1.1	8.8	<1	118.5
RSO35A		5	36.4	<0.2	213	<1	6.5	<1	7.71	57	0.6	2.1	12.7	1	183.5
RSO35B		4	43.3	1.2	235	<1	7.9	<1	9.61	87	0.7	2.7	15.4	1	218
RSO36		16	115.5	0.2	135	<1	17.6	<1	28.3	134	<0.5	3.7	20.5	<1	343
RSO36A		20	177.0	0.3	152	<1	26.8	<1	43.9	207	0.5	6.0	32.1	1	562
RSO36B		18	200.0	0.5	166	<1	31.4	<1	33.0	120	0.5	7.5	36.5	1	658
RSO37		7	48.0	<0.2	151	<1	8.2	<1	8.86	110	<0.5	1.8	11.0	<1	192.5
RSO37A		9	66.0	0.2	156	<1	11.7	<1	12.75	129	<0.5	2.8	15.5	<1	257
RSO37B		9	69.6	7.6	171	<1	11.7	<1	14.45	135	<0.5	2.7	15.0	<1	267
RSO38		8	32.3	<0.2	142	<1	5.1	<1	5.68	33	<0.5	1.0	13.0	<1	115.5
RSO38A		13	42.7	<0.2	166	<1	6.8	<1	7.57	28	<0.5	1.2	18.7	<1	155.0
RSO38B		10	41.4	0.7	167	<1	6.3	1	7.25	22	<0.5	1.2	18.8	<1	143.5
RSO39		2	44.9	<0.2	253	<1	6.6	<1	2.35	27	<0.5	1.2	4.5	<1	146.0
RSO39A		7	59.3	<0.2	250	<1	8.5	<1	3.60	48	<0.5	1.5	5.4	<1	193.0
RSO39B		8	84.8	0.3	271	<1	12.2	<1	4.37	37	0.5	2.3	7.6	<1	274
RSO40		6	24.9	<0.2	218	<1	3.9	<1	3.17	55	<0.5	0.8	8.1	<1	90.8
RSO40A		6	27.1	<0.2	225	<1	4.2	<1	3.72	27	<0.5	0.8	10.4	<1	101.5
RSO40B		10	28.9	0.4	242	<1	4.8	<1	4.15	47	<0.5	1.0	12.2	<1	118.0
RSO41		6	19.4	<0.2	203	<1	3.0	<1	3.60	50	<0.5	0.5	5.9	<1	63.6



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CERTIFICATE OF ANALYSIS PH10067471

Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	pH-MS23
		Zn	Zr	Final pH
		ppb	ppb	Unity
		10	0.1	0.1
RSO27B		1020	48.9	8.3
RSO28		1120	45.4	8.0
RSO28A		1720	94.2	8.0
RSO28B		2020	95.0	8.0
RSO29		1140	38.5	8.0
RSO29A		1870	52.2	8.0
RSO29B		1350	45.6	8.0
RSO30		260	22.8	8.7
RSO30A		760	52.1	8.1
RSO30B		1030	55.4	8.0
RSO31		250	24.4	8.5
RSO31A		510	31.1	8.3
RSO31B		720	29.8	8.3
RSO32		2190	16.0	8.3
RSO32A		3130	26.8	8.3
RSO33		100	26.2	8.3
RSO33A		470	32.7	8.3
RSO33B		640	39.0	8.1
RSO34		60	43.5	8.3
RSO34A		220	58.0	8.0
RSO34B		250	44.3	8.3
RSO35		110	4.6	8.3
RSO35A		170	6.7	8.3
RSO35B		210	8.5	8.3
RSO36		90	10.8	8.3
RSO36A		220	20.7	8.3
RSO36B		340	14.5	8.3
RSO37		210	7.3	8.3
RSO37A		550	9.0	8.3
RSO37B		440	10.0	8.3
RSO38		90	4.4	8.3
RSO38A		530	5.1	8.3
RSO38B		680	5.0	8.3
RSO39		210	1.7	8.3
RSO39A		310	2.4	8.3
RSO39B		410	3.2	8.3
RSO40		230	3.2	8.3
RSO40A		520	3.1	8.3
RSO40B		680	4.1	8.3
RSO41		150	3.2	8.3



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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	ppb	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
RSO41A		1.2	3	0.11	1150	0.3	<3	0.06	95.9	2	66.5	290	<1	1.7	1445	15.1
RSO41B		1.2	2	0.09	1120	0.4	<3	0.05	91.3	2	63.1	264	1	1.6	1600	13.9
RSO42		0.9	2	0.12	990	0.3	<3	0.07	71.5	1	52.9	190.0	<1	2.0	1140	14.6
RSO42A		1.3	2	0.19	1080	0.2	<3	0.10	70.8	1	71.6	221	1	2.1	1370	15.2
RSO42B		1.4	<2	0.42	1050	0.3	<3	0.11	72.8	1	81.1	285	1	2.1	1500	18.0
RSO43		1.9	<2	0.48	880	0.5	<3	0.06	68.0	1	127.5	56.6	1	2.2	1815	115.0
RSO43A		2.8	2	0.34	760	1.0	<3	0.05	68.3	1	206	62.5	<1	2.1	2340	173.5
RSO43B		3.4	<2	0.38	730	1.3	<3	0.07	67.7	2	232	76.0	1	2.0	3030	223
RSO44		1.0	2	0.24	1090	0.2	<3	0.07	61.1	1	73.7	72.5	1	2.1	1075	23.0
RSO44A		1.3	2	0.23	970	0.2	<3	0.07	55.5	1	106.0	83.0	1	2.1	1185	29.1
RSO44B		1.5	<2	0.26	980	0.3	<3	0.08	59.2	1	129.0	102.5	1	2.2	1500	37.7
RSO45		0.8	4	0.26	1180	0.3	<3	<0.05	64.2	2	65.0	141.0	1	2.6	1335	16.5
RSO45A		2.1	<2	0.19	1410	0.9	<3	<0.05	76.9	3	245	317	3	2.7	1940	63.5
RSO45B		2.3	4	0.13	1680	1.0	<3	0.09	91.2	4	313	432	3	2.7	2210	77.6
RSO46		0.8	2	0.47	1440	0.3	<3	<0.05	79.9	1	52.1	68.8	2	2.6	1210	20.1
RSO46A		1.1	2	0.36	1280	0.3	<3	<0.05	81.5	2	124.0	90.4	2	2.4	1590	34.9
RSO46B		1.1	2	0.32	1280	0.5	<3	<0.05	74.1	2	165.0	148.0	2	2.4	1590	48.1
RSO47		1.7	4	0.13	850	0.7	<3	0.15	49.9	2	189.0	217	3	4.4	6230	70.5
RSO47A		3.2	2	0.17	1090	1.2	<3	0.19	79.1	3	272	556	6	5.0	10700	115.5
RSO47B		3.9	3	0.20	1460	1.1	<3	0.22	90.9	4	342	769	5	5.1	12250	135.5
RSO48		1.8	3	0.17	1510	4.3	<3	0.13	29.5	<1	2850	48.1	18	5.7	9140	642
RSO48A		2.4	<2	0.20	1620	5.4	<3	0.13	34.0	<1	3750	55.2	24	6.1	10900	853
RSO48B		2.6	8	0.22	1670	6.1	<3	0.18	34.8	<1	4220	58.1	25	6.1	12500	909
RSO49		1.2	4	0.05	1580	0.9	<3	<0.05	83.6	2	268	259	5	3.3	5830	57.8
RSO49A		1.4	4	0.03	1720	1.2	<3	<0.05	96.0	2	310	348	5	3.2	7280	75.8
RSO49B		1.4	4	0.05	1570	1.4	<3	0.07	88.4	2	315	359	6	3.2	7310	73.5
RSO50		1.8	6	0.11	1380	6.7	<3	0.07	47.4	1	762	107.0	13	5.9	9400	162.5
RSO50A		2.7	12	0.12	1630	12.8	<3	0.12	59.2	2	1235	167.0	26	7.5	12700	270
RSO50B		2.9	11	0.13	1720	14.5	<3	0.16	60.2	3	1380	171.5	24	7.5	13750	300
RSO51		2.4	4	0.30	1180	3.5	<3	0.10	44.4	6	510	371	2	7.3	25100	210
RSO51A		3.8	8	0.41	1570	5.6	<3	0.16	67.9	10	947	881	1	8.0	33400	315
RSO51B		4.1	7	0.41	1830	6.4	<3	0.15	70.1	10	952	923	1	8.2	33200	313
RSO52		2.0	7	0.16	2030	12.4	<3	0.11	51.3	3	761	535	9	7.5	29200	284
RSO52A		2.4	7	0.16	2030	15.8	<3	0.12	56.4	4	1055	550	9	7.2	33500	376
RSO52B		2.3	9	0.17	1980	18.5	<3	0.11	54.9	4	1110	588	11	7.3	34100	390
RSO53		3.2	6	0.69	1710	1.0	<3	0.08	67.7	3	185.0	410	5	3.6	17800	51.5
RSO53A		3.9	7	1.01	1960	1.3	<3	0.05	70.5	3	267	608	6	3.2	18900	65.6
RSO53B		4.4	9	1.17	1870	1.6	<3	0.09	75.6	4	304	719	6	3.4	23000	84.0
RSO54		1.6	9	0.07	2190	8.7	<3	0.12	34.0	2	560	284	44	7.4	4050	140.5
RSO54A		2.1	13	0.11	2580	18.7	<3	0.17	46.4	3	939	350	58	8.5	5410	246



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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
RSO41A		7.5	7.4	5.7	31.5	29.9	0.4	0.5	0.3	3.2	0.15	<0.1	21.3	0.9	0.6	96.0
RSO41B		6.8	7.1	5.6	29.6	28.3	0.4	0.5	0.4	3.0	0.14	<0.1	21.3	0.9	0.5	92.8
RSO42		6.8	7.5	2.8	25.7	29.6	0.4	<0.5	1.0	3.0	0.26	<0.1	15.3	0.6	0.6	90.5
RSO42A		7.5	7.8	3.3	29.1	30.5	0.4	0.5	0.3	3.2	0.30	<0.1	21.5	0.9	0.6	88.7
RSO42B		8.7	8.6	4.2	28.7	34.6	0.4	0.5	0.4	3.8	0.32	<0.1	22.2	1.0	0.7	84.2
RSO43		57.9	52.0	4.0	24.2	215	1.8	1.5	1.6	25.3	0.22	<0.1	106.5	0.8	4.4	63.8
RSO43A		86.8	77.4	4.2	21.2	323	2.8	2.3	2.7	38.0	0.23	<0.1	178.5	0.7	6.5	57.9
RSO43B		112.0	97.4	5.0	21.1	402	3.5	3.2	2.3	48.4	0.27	<0.1	204	0.9	8.3	55.6
RSO44		10.9	11.2	4.4	30.8	43.7	0.5	0.5	0.9	4.8	0.19	<0.1	25.1	0.8	0.9	67.2
RSO44A		13.8	13.7	5.1	26.4	55.1	0.6	0.7	0.5	6.1	0.19	<0.1	36.9	0.8	1.2	64.8
RSO44B		18.3	18.0	5.9	26.5	72.1	0.7	0.8	1.1	8.1	0.21	<0.1	44.8	1.0	1.4	64.0
RSO45		7.6	8.1	3.8	32.7	32.0	0.4	<0.5	0.9	3.4	0.13	<0.1	19.1	3.2	0.7	70.1
RSO45A		27.8	24.5	10.0	37.0	111.0	1.0	1.0	1.5	11.7	0.19	<0.1	82.3	0.8	2.3	75.4
RSO45B		35.6	26.6	13.5	43.0	124.0	1.0	1.2	0.4	14.8	0.19	<0.1	112.5	0.7	3.0	79.9
RSO46		7.4	9.6	3.0	36.8	42.2	0.4	<0.5	5.4	3.3	0.18	<0.1	29.7	<0.2	0.6	66.0
RSO46A		13.9	15.3	3.9	32.5	69.9	0.8	0.6	3.3	6.0	0.17	<0.1	69.7	0.2	1.1	66.5
RSO46B		19.1	20.0	5.5	31.9	91.2	1.0	0.7	1.8	8.4	0.16	<0.1	87.9	0.3	1.5	60.8
RSO47		28.9	27.7	6.2	22.4	124.0	1.3	1.2	1.7	12.3	0.67	<0.1	87.9	0.4	2.4	45.2
RSO47A		50.9	41.9	11.2	25.9	198.5	1.6	2.2	0.8	21.2	0.92	<0.1	139.0	0.9	4.5	70.1
RSO47B		65.3	45.8	13.5	36.0	215	1.8	2.8	0.7	25.9	1.05	<0.1	188.0	0.8	6.3	84.0
RSO48		305	189.0	22.0	45.5	905	9.0	7.9	2.6	118.5	0.68	0.1	1090	2.6	28.5	39.6
RSO48A		402	256	27.0	51.3	1225	12.4	10.3	1.6	159.0	0.76	0.1	1455	3.8	37.4	44.3
RSO48B		467	287	30.7	53.5	1285	13.1	11.2	2.0	180.0	0.84	0.1	1640	3.5	42.3	43.8
RSO49		25.4	20.1	8.1	39.2	94.6	0.9	1.4	0.5	10.5	0.12	<0.1	79.9	0.9	2.2	69.5
RSO49A		33.8	24.7	10.0	42.1	118.0	1.0	1.7	0.4	13.8	0.14	<0.1	97.3	1.0	2.9	77.0
RSO49B		33.1	23.9	10.6	38.4	115.5	1.1	1.9	0.5	13.5	0.15	<0.1	98.3	1.0	2.8	59.8
RSO50		77.6	48.9	21.1	41.5	226	2.4	3.8	3.3	30.5	0.48	0.1	223	4.3	7.8	26.7
RSO50A		131.5	77.2	40.1	57.9	359	3.7	6.3	1.8	51.0	0.68	0.1	339	9.7	13.0	25.4
RSO50B		146.5	86.0	38.7	55.6	398	3.8	6.5	1.6	57.2	0.71	0.1	374	8.8	14.6	24.3
RSO51		97.1	66.8	5.4	28.5	297	2.3	3.0	3.2	38.8	0.76	<0.1	179.0	0.9	8.8	54.4
RSO51A		171.0	87.7	5.1	37.2	399	3.2	4.6	1.3	64.4	1.03	<0.1	294	0.4	17.0	74.9
RSO51B		178.0	84.8	4.2	43.1	391	3.0	4.3	1.2	66.8	1.05	<0.1	288	<0.2	18.5	83.4
RSO52		153.0	72.7	18.4	52.7	336	2.7	4.0	1.1	57.7	0.43	<0.1	241	3.8	16.0	50.8
RSO52A		212	95.1	19.5	52.1	435	3.5	5.0	0.8	77.2	0.42	0.1	306	3.1	22.4	45.3
RSO52B		221	95.4	21.5	52.0	442	3.4	5.2	0.9	81.5	0.45	0.1	320	3.9	22.9	40.7
RSO53		22.0	16.7	11.9	42.3	79.6	0.8	1.6	0.7	9.2	0.19	<0.1	60.5	0.8	1.9	59.2
RSO53A		29.8	21.4	16.1	46.6	102.5	0.9	2.2	1.0	11.9	0.20	<0.1	88.5	0.7	2.9	55.9
RSO53B		39.6	27.0	19.2	46.9	126.5	1.1	3.1	0.6	15.6	0.25	<0.1	106.0	0.7	3.6	57.5
RSO54		66.7	38.1	56.7	65.5	178.0	1.8	6.2	0.8	26.4	0.19	0.2	168.5	4.3	6.6	32.5
RSO54A		120.5	64.3	83.9	81.3	305	2.7	9.2	0.7	46.4	0.27	0.3	254	6.3	11.8	34.3



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		Mn	Mo	Nb	Nd	Ni	Pb	Pb 206	Pb 207	Pb 208	Pd	Pr	Rb	Re	Sb
		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
RSO41A		8.64	1.8	0.1	93.9	146	14	3	3	8	0.6	12.2	366	<0.1	<0.5
RSO41B		8.43	1.7	0.1	90.3	133	11	3	2	6	0.6	11.9	329	<0.1	<0.5
RSO42		5.32	1.8	<0.1	88.6	111	21	5	5	11	0.4	10.7	414	<0.1	<0.5
RSO42A		6.21	1.7	<0.1	97.5	126	23	5	5	12	0.5	12.7	413	<0.1	<0.5
RSO42B		9.04	2.0	0.1	106.5	137	20	5	4	11	0.6	13.8	377	<0.1	<0.5
RSO43		2.06	3.0	0.1	644	97	31	7	7	17	3.2	80.9	436	<0.1	<0.5
RSO43A		2.02	2.7	0.1	954	116	24	6	5	13	4.8	129.5	388	<0.1	<0.5
RSO43B		2.29	3.3	0.1	1180	133	18	4	4	9	6.3	148.0	350	<0.1	<0.5
RSO44		2.17	1.9	0.1	134.5	99	34	8	7	18	0.7	17.1	417	<0.1	<0.5
RSO44A		2.49	1.5	0.1	176.0	101	29	7	6	15	0.9	23.2	381	<0.1	<0.5
RSO44B		3.15	1.7	0.1	224	116	28	7	6	15	1.2	29.1	380	<0.1	<0.5
RSO45		5.10	2.3	0.1	107.0	131	43	10	9	23	0.6	13.3	476	<0.1	<0.5
RSO45A		13.75	2.0	0.2	352	275	54	13	12	28	2.1	49.6	416	<0.1	<0.5
RSO45B		18.60	2.4	0.2	402	344	39	9	9	21	2.5	61.3	401	<0.1	<0.5
RSO46		2.60	2.2	0.1	150.5	145	47	11	10	25	0.7	19.8	414	<0.1	<0.5
RSO46A		3.53	1.9	0.1	271	174	45	11	10	24	1.2	40.1	385	<0.1	<0.5
RSO46B		6.59	2.0	0.1	334	185	40	9	9	21	1.6	49.8	338	<0.1	<0.5
RSO47		7.45	6.2	0.1	462	166	36	9	8	19	2.1	66.6	325	<0.1	<0.5
RSO47A		15.65	8.8	0.2	643	315	32	7	7	17	4.1	91.1	357	<0.1	<0.5
RSO47B		22.0	10.6	0.2	702	391	24	5	5	13	4.8	108.0	363	<0.1	0.8
RSO48		0.95	2.5	1.0	3490	46	87	21	19	46	16.7	625	336	<0.1	0.5
RSO48A		1.03	2.7	1.1	4580	53	101	24	22	53	22.8	799	348	<0.1	0.5
RSO48B		1.09	2.9	1.2	5230	58	106	25	23	56	23.5	913	348	<0.1	0.6
RSO49		11.40	7.1	0.2	319	204	25	6	6	13	2.4	47.9	382	<0.1	<0.5
RSO49A		15.50	9.8	0.2	390	259	23	5	5	12	3.0	58.7	357	<0.1	<0.5
RSO49B		15.60	9.8	0.2	379	252	22	5	5	11	3.1	57.7	313	<0.1	<0.5
RSO50		4.37	17.4	0.9	794	107	44	10	10	23	6.4	128.0	389	<0.1	0.6
RSO50A		6.50	23.7	2.0	1195	150	61	15	13	32	11.3	197.5	401	<0.1	1.2
RSO50B		7.32	26.2	1.8	1250	159	53	13	11	28	11.2	205	390	<0.1	1.1
RSO51		6.78	30.4	0.1	875	152	10	2	2	5	6.0	128.5	535	<0.1	0.8
RSO51A		17.15	48.1	0.1	1255	292	9	2	2	5	8.8	205	619	<0.1	2.1
RSO51B		19.40	42.1	<0.1	1250	305	9	2	2	5	9.1	200	641	<0.1	2.5
RSO52		12.50	16.1	0.4	977	273	21	5	5	11	8.3	157.0	496	<0.1	0.5
RSO52A		15.25	19.7	0.4	1325	306	16	4	3	8	11.1	203	490	<0.1	0.6
RSO52B		15.90	21.3	0.5	1295	314	18	4	4	9	11.3	209	457	<0.1	0.6
RSO53		8.05	68.5	0.2	254	249	25	6	6	13	2.6	37.5	369	<0.1	1.0
RSO53A		11.95	77.3	0.2	326	274	21	5	5	11	3.3	50.7	317	<0.1	1.2
RSO53B		13.95	101.0	0.2	397	342	25	6	5	13	4.2	61.5	324	<0.1	1.6
RSO54		10.55	2.7	1.2	571	243	83	20	18	44	7.6	92.2	358	<0.1	1.7
RSO54A		14.75	3.5	1.7	936	341	130	31	28	69	12.2	154.5	396	<0.1	2.3



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CERTIFICATE OF ANALYSIS PH10067471

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
		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
		2	0.1	0.2	1	1	0.1	1	0.02	5	0.5	0.1	0.1	1	0.1
RSO41A		6	25.7	<0.2	210	<1	3.9	<1	5.10	117	<0.5	0.7	7.7	<1	86.9
RSO41B		5	24.2	5.2	214	<1	3.7	<1	5.27	61	<0.5	0.7	7.3	<1	83.3
RSO42		6	25.3	<0.2	157	<1	3.8	<1	3.84	28	<0.5	0.7	10.0	<1	80.1
RSO42A		7	26.5	<0.2	161	<1	4.0	<1	5.17	36	<0.5	0.7	11.4	<1	85.2
RSO42B		10	29.4	1.7	156	<1	4.5	<1	6.05	53	0.5	0.9	12.6	<1	102.5
RSO43		21	178.5	<0.2	152	<1	29.0	<1	10.50	63	<0.5	5.4	20.2	1	642
RSO43A		26	269	<0.2	142	<1	43.4	<1	16.65	69	<0.5	8.4	27.8	1	977
RSO43B		32	334	0.5	143	<1	54.7	<1	22.8	84	<0.5	11.0	36.5	1	1240
RSO44		7	37.4	<0.2	145	<1	5.9	<1	5.46	61	<0.5	1.1	9.8	<1	125.0
RSO44A		10	47.0	<0.2	134	<1	7.4	<1	7.13	68	0.5	1.4	10.8	<1	160.0
RSO44B		9	61.6	1.8	135	<1	9.6	<1	8.84	91	0.5	1.8	13.5	<1	200.0
RSO45		5	29.8	10.8	176	<1	4.2	<1	4.75	29	0.6	0.8	9.8	<1	82.2
RSO45A		6	103.0	<0.2	224	<1	14.1	<1	16.40	108	0.8	2.8	18.8	<1	271
RSO45B		13	111.0	2.9	257	<1	16.6	<1	20.5	115	0.8	3.6	21.5	1	336
RSO46		5	43.1	<0.2	191	<1	5.0	<1	4.91	44	0.5	0.6	9.4	<1	84.4
RSO46A		5	70.0	<0.2	193	<1	8.4	1	9.82	58	0.6	1.3	11.4	<1	159.0
RSO46B		8	88.9	1.5	183	<1	11.4	1	12.85	72	0.7	1.9	13.8	<1	215
RSO47		20	126.0	<0.2	221	<1	16.0	1	32.4	68	0.8	2.8	44.4	<1	296
RSO47A		28	184.0	0.6	332	<1	25.8	1	60.7	124	1.3	5.1	91.4	1	484
RSO47B		28	198.5	1.8	379	<1	28.4	1	71.7	115	1.8	7.0	114.0	1	561
RSO48		78	893	0.9	147	1	132.0	1	263	402	0.7	34.1	111.5	3	2590
RSO48A		85	1190	1.2	163	1	177.5	1	339	515	0.9	45.1	152.0	4	3470
RSO48B		106	1335	2.1	162	1	200	1	393	601	0.9	51.7	176.0	4	3860
RSO49		13	87.3	<0.2	350	<1	12.7	<1	34.2	110	0.9	2.7	21.3	<1	262
RSO49A		9	110.0	0.2	397	<1	16.2	<1	41.5	94	0.9	3.5	28.0	1	320
RSO49B		12	104.5	0.5	374	<1	15.7	<1	45.8	111	1.0	3.5	27.8	1	311
RSO50		20	209	0.8	180	<1	33.3	1	117.5	465	1.0	8.9	62.1	1	678
RSO50A		35	327	1.8	199	<1	52.9	1	197.0	1060	1.4	15.3	97.3	2	1105
RSO50B		36	365	2.4	200	<1	60.1	1	219	915	1.4	17.0	110.0	2	1210
RSO51		40	268	<0.2	214	<1	42.8	1	81.5	86	1.1	10.4	112.5	1	872
RSO51A		54	360	0.5	270	<1	60.5	1	87.8	69	1.9	19.6	207	2	1330
RSO51B		49	346	1.4	303	<1	58.4	1	71.4	31	2.1	21.1	207	2	1390
RSO52		26	287	0.5	226	<1	52.5	1	77.4	311	1.1	18.2	86.6	2	1280
RSO52A		37	377	0.4	218	<1	68.5	<1	93.8	257	1.2	25.5	110.0	2	1735
RSO52B		38	386	1.1	198	<1	70.9	<1	105.0	357	1.2	26.6	118.0	2	1790
RSO53		9	72.3	0.3	286	<1	11.1	<1	33.6	76	1.4	2.3	34.0	1	229
RSO53A		12	93.9	0.5	309	<1	13.9	<1	40.8	80	1.4	3.3	45.1	1	280
RSO53B		16	118.5	1.7	302	<1	17.8	<1	50.7	108	1.5	4.2	59.0	1	346
RSO54		27	161.5	1.7	198	<1	27.6	<1	133.0	490	1.4	7.8	74.8	2	578
RSO54A		37	273	2.5	226	<1	47.8	1	203	627	1.6	14.1	116.5	2	999



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Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	pH-MS23
		Zn	Zr	Final pH
		ppb	ppb	Unity
		10	0.1	0.1
RSO41A		340	4.0	8.7
RSO41B		350	4.1	8.3
RSO42		240	2.4	8.3
RSO42A		380	4.0	8.3
RSO42B		370	4.7	8.3
RSO43		100	6.9	8.3
RSO43A		200	12.5	8.3
RSO43B		220	19.9	8.3
RSO44		170	4.1	8.3
RSO44A		310	4.9	8.3
RSO44B		320	6.0	8.3
RSO45		240	2.8	8.3
RSO45A		830	10.2	8.3
RSO45B		930	10.7	8.5
RSO46		150	2.2	8.5
RSO46A		310	4.4	8.3
RSO46B		340	6.4	8.3
RSO47		1270	11.3	8.3
RSO47A		4510	24.0	8.3
RSO47B		5700	29.8	8.3
RSO48		110	54.8	8.3
RSO48A		270	73.4	8.3
RSO48B		350	83.4	8.3
RSO49		180	17.7	8.3
RSO49A		320	22.8	8.3
RSO49B		310	23.7	8.3
RSO50		110	48.4	8.3
RSO50A		300	88.8	8.3
RSO50B		360	88.2	8.3
RSO51		80	25.5	8.3
RSO51A		480	38.2	8.3
RSO51B		670	29.8	8.3
RSO52		50	35.0	8.1
RSO52A		120	40.1	8.3
RSO52B		120	43.1	8.3
RSO53		160	34.0	8.3
RSO53A		250	32.3	8.3
RSO53B		340	44.6	8.3
RSO54		280	102.0	8.3
RSO54A		670	139.5	8.3



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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
RSO54B		2.0	12	0.09	2440	17.2	<3	0.14	42.5	3	935	305	47	7.4	5200	238
RSO55		0.5	5	0.02	890	2.2	<3	0.10	77.0	3	301	404	14	3.6	3540	41.6
RSO55A		0.5	7	0.02	960	4.1	<3	0.12	94.9	4	539	515	19	3.9	4420	70.8
RSO55B		0.5	5	<0.02	980	5.2	<3	0.14	89.4	4	574	504	23	4.0	4800	77.7
RSO56		1.1	5	0.05	810	0.5	<3	0.05	86.3	3	180.0	330	7	3.0	3010	32.2
RSO56A		1.5	3	0.06	1060	0.6	<3	0.08	99.2	3	272	448	8	3.1	3460	41.1
RSO56B		1.8	4	0.05	890	0.7	<3	0.08	107.0	4	275	464	9	3.2	4290	42.0
RSO57		2.7	12	0.09	1780	23.4	<3	0.16	15.9	2	1670	473	25	7.5	28000	205
RSO57A		3.0	15	0.11	2080	33.9	<3	0.22	16.9	2	2240	633	35	8.6	34500	272
RSO57B		3.5	22	0.12	2330	48.8	3	0.27	18.5	3	2780	915	56	10.7	38000	339
RSO58		0.6	4	0.12	1190	0.7	<3	0.05	58.6	2	119.5	233	3	2.2	5050	31.7
RSO58A		1.0	2	0.10	1420	1.7	<3	0.06	74.3	4	272	351	6	2.3	6820	64.6
RSO58B		1.2	3	0.11	1540	1.7	<3	0.06	78.2	4	348	378	7	2.4	8150	80.2
RSO59		0.6	4	0.14	1080	2.2	<3	0.07	45.9	2	383	105.0	6	3.0	4430	67.9
RSO59A		1.0	5	0.12	1190	4.3	<3	0.08	40.9	2	783	88.4	11	3.4	5230	111.0
RSO59B		1.2	7	0.18	1340	6.0	<3	0.07	47.1	2	1015	112.5	16	4.1	6010	147.5
RSO60		0.8	<2	0.08	1330	0.8	<3	0.06	45.6	1	260	185.5	6	3.1	3960	38.4
RSO60A		1.3	2	0.06	1520	2.1	<3	0.06	44.3	2	456	262	10	3.2	4690	65.0
RSO60B		1.4	4	0.07	1490	2.2	<3	0.07	48.3	2	482	297	13	3.2	5510	73.6
RSO61		1.4	10	0.04	1360	3.6	<3	0.14	64.8	1	514	191.0	16	3.5	4710	53.6
RSO61A		1.9	9	0.03	1450	5.1	<3	0.15	72.4	2	665	232	20	3.8	5770	69.2
RSO61B		1.7	6	0.05	1360	4.9	<3	0.15	75.2	2	627	203	15	3.4	5700	66.0



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CERTIFICATE OF ANALYSIS PH10067471

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
RSO54B		116.5	62.5	73.1	71.8	292	2.6	8.4	0.6	45.0	0.25	0.3	248	4.3	11.9	34.4
RSO55		19.6	12.7	28.6	22.5	64.0	0.7	1.5	0.6	7.8	0.11	<0.1	83.2	0.6	1.9	31.4
RSO55A		34.1	20.6	45.6	25.1	105.0	1.1	2.4	0.9	13.2	0.13	0.1	146.0	1.4	3.3	28.7
RSO55B		37.8	21.9	50.9	26.0	113.0	1.1	2.8	0.8	14.5	0.15	0.1	156.5	1.5	3.7	25.7
RSO56		13.1	11.6	12.7	21.0	58.4	0.6	1.4	0.4	5.6	0.17	<0.1	50.1	1.1	1.1	64.6
RSO56A		17.7	14.5	18.4	26.5	73.1	0.8	2.0	0.6	7.3	0.21	<0.1	77.3	1.4	1.6	72.4
RSO56B		18.0	14.8	18.8	22.9	75.6	0.8	2.1	0.5	7.5	0.24	<0.1	78.6	1.7	1.5	73.3
RSO57		95.7	64.5	46.7	58.5	324	3.7	4.9	1.1	37.7	0.54	0.2	599	7.5	9.0	21.6
RSO57A		131.5	84.1	71.4	75.6	409	5.0	7.1	1.6	50.3	0.66	0.2	810	13.8	12.1	19.15
RSO57B		160.0	103.5	103.5	94.3	515	6.5	10.4	1.7	61.5	0.83	0.3	989	23.0	15.3	20.3
RSO58		14.4	10.9	9.9	29.5	45.3	0.5	0.7	1.4	5.9	0.13	<0.1	30.0	0.9	1.3	34.9
RSO58A		30.9	21.3	16.5	36.6	91.9	0.9	1.3	1.1	12.3	0.13	<0.1	73.4	2.1	2.8	35.6
RSO58B		38.1	26.0	19.2	37.7	112.0	1.0	1.7	1.0	15.2	0.14	<0.1	95.2	2.4	3.5	36.3
RSO59		30.5	21.8	14.8	30.8	94.6	1.0	1.6	2.6	12.5	0.20	<0.1	94.7	2.2	2.7	26.3
RSO59A		53.4	35.1	30.4	40.9	155.0	1.7	3.5	1.4	21.1	0.21	0.1	208	6.5	4.8	22.0
RSO59B		70.1	46.0	37.1	48.3	203	2.4	4.5	1.2	27.9	0.25	0.1	248	9.0	6.3	24.0
RSO60		19.2	15.9	12.0	43.9	67.6	1.3	1.1	0.2	7.9	0.15	<0.1	60.0	1.6	1.7	35.9
RSO60A		34.1	26.0	20.7	53.0	117.0	2.2	2.1	0.6	13.8	0.15	0.1	115.5	4.0	3.1	34.1
RSO60B		38.9	29.9	21.2	52.1	133.0	2.8	2.2	0.1	15.6	0.16	<0.1	132.0	3.6	3.6	32.2
RSO61		26.3	20.1	16.2	46.7	94.9	2.0	2.8	0.5	10.7	0.20	0.1	146.5	3.6	2.3	18.50
RSO61A		35.2	27.1	20.3	51.2	128.5	2.6	3.7	1.1	14.1	0.23	0.1	190.0	4.4	3.2	18.60
RSO61B		33.5	24.7	17.3	46.0	120.0	2.5	3.0	0.4	13.4	0.20	0.1	179.5	3.3	3.0	19.80



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CERTIFICATE OF ANALYSIS PH10067471

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	Rb	Re	Sb
		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
RSO54B		12.75	3.1	1.2	899	327	120	28	26	64	11.0	149.5	371	<0.1	1.7
RSO55		18.20	2.0	0.2	241	176	67	16	15	36	2.1	41.1	315	<0.1	<0.5
RSO55A		24.2	2.0	0.4	396	249	85	20	19	45	3.4	71.6	279	<0.1	<0.5
RSO55B		24.4	2.3	0.5	422	245	96	23	21	51	3.8	76.3	255	<0.1	<0.5
RSO56		12.30	2.5	0.3	205	136	21	5	4	11	1.9	29.6	294	<0.1	<0.5
RSO56A		16.05	2.4	0.3	259	169	14	3	3	8	2.5	40.0	272	<0.1	<0.5
RSO56B		15.10	2.9	0.3	266	194	10	2	2	6	2.8	41.2	271	<0.1	<0.5
RSO57		8.17	3.1	1.7	1365	85	60	15	13	32	7.5	263	384	<0.1	0.5
RSO57A		11.80	3.8	2.8	1770	112	65	16	14	35	10.1	351	363	<0.1	0.8
RSO57B		17.60	4.6	4.3	2180	129	81	20	17	43	13.9	429	386	<0.1	1.1
RSO58		8.48	2.5	0.1	147.0	154	30	7	6	15	1.1	20.7	452	<0.1	<0.5
RSO58A		11.85	2.3	0.3	292	241	36	9	8	18	2.3	43.6	391	<0.1	<0.5
RSO58B		12.65	2.8	0.3	357	288	33	8	7	17	2.8	54.7	378	<0.1	<0.5
RSO59		4.99	2.4	0.4	356	95	57	14	12	30	2.5	57.5	438	<0.1	<0.5
RSO59A		3.76	2.6	1.1	605	109	55	13	12	29	4.8	106.5	383	<0.1	<0.5
RSO59B		4.62	3.0	1.3	778	122	60	15	13	31	6.8	135.5	389	<0.1	<0.5
RSO60		4.97	2.7	0.3	255	94	54	13	12	29	2.1	39.4	498	<0.1	<0.5
RSO60A		7.12	2.5	0.7	418	148	60	15	13	32	4.1	70.5	436	<0.1	0.5
RSO60B		7.77	2.8	0.6	489	159	52	13	12	28	4.2	77.4	392	<0.1	0.5
RSO61		6.73	2.5	1.0	390	98	89	21	20	49	4.7	72.3	406	<0.1	<0.5
RSO61A		8.51	3.3	1.2	491	120	102	24	22	56	5.8	93.2	380	<0.1	<0.5
RSO61B		7.57	3.0	0.8	459	121	89	21	20	48	4.8	87.0	372	<0.1	<0.5



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CERTIFICATE OF ANALYSIS PH10067471

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
		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
		2	0.1	0.2	1	1	0.1	1	0.02	5	0.5	0.1	0.1	1	0.1	0.1
RSO54B		38	264	2.9	222	<1	46.2	<1	189.0	441	1.6	13.9	111.0	2	972	80.6
RSO55		10	60.8	<0.2	310	<1	8.9	<1	72.5	92	0.5	2.2	14.7	<1	187.5	12.5
RSO55A		13	100.0	0.6	299	<1	14.5	<1	107.5	154	0.5	3.8	19.5	1	287	22.2
RSO55B		14	105.5	2.4	282	<1	16.2	<1	121.5	189	0.6	4.3	21.7	1	316	24.9
RSO56		10	56.4	0.2	302	<1	7.4	<1	31.1	117	0.5	1.3	15.5	<1	147.0	7.4
RSO56A		9	70.5	0.3	344	<1	9.3	<1	41.5	129	0.7	1.8	20.4	<1	175.5	10.4
RSO56B		11	71.0	0.7	356	<1	9.5	<1	42.6	139	0.8	1.9	22.9	<1	193.0	10.5
RSO57		30	326	2.0	98	<1	44.1	<1	170.5	768	1.1	10.7	85.1	1	800	62.3
RSO57A		37	418	3.6	110	<1	56.9	1	227	1240	1.3	14.7	116.5	2	1035	84.7
RSO57B		48	517	9.2	124	<1	71.5	1	279	1930	1.7	18.3	152.0	3	1310	105.5
RSO58		11	43.3	<0.2	197	<1	6.6	<1	13.10	93	0.7	1.5	17.7	<1	144.5	8.4
RSO58A		11	82.8	0.3	222	<1	13.0	<1	23.3	219	0.8	3.4	26.4	<1	286	19.0
RSO58B		9	101.5	2.2	235	<1	16.1	<1	28.2	234	0.9	4.1	32.1	<1	351	22.6
RSO59		13	92.8	0.4	133	<1	13.6	<1	63.3	245	0.6	3.2	31.3	<1	291	18.0
RSO59A		17	148.0	1.1	119	<1	22.8	<1	126.5	753	0.9	5.8	43.0	1	481	33.0
RSO59B		18	192.5	2.8	140	<1	29.4	<1	168.5	982	1.1	7.8	55.5	1	645	44.1
RSO60		10	62.3	0.3	131	<1	8.9	<1	22.9	108	<0.5	2.1	19.3	<1	206	12.2
RSO60A		14	105.5	0.8	136	<1	15.3	<1	38.1	291	0.6	3.6	25.6	1	350	21.4
RSO60B		21	118.5	3.6	141	<1	17.3	<1	42.9	275	0.6	4.3	28.1	1	407	24.2
RSO61		18	90.3	1.0	238	<1	12.9	<1	116.0	271	0.8	2.9	26.8	1	262	16.9
RSO61A		17	117.0	1.3	250	<1	17.4	<1	148.5	316	1.0	3.8	33.8	1	340	22.6
RSO61B		15	109.0	2.2	250	<1	16.2	<1	129.0	216	0.8	3.6	30.6	1	320	20.8



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CERTIFICATE OF ANALYSIS PH10067471

Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	pH-MS23
		Zn	Zr	Final pH
		ppb	ppb	Unity
		10	0.1	0.1
RSO54B		790	116.0	8.3
RSO55		310	26.6	8.3
RSO55A		690	37.9	8.0
RSO55B		750	44.0	8.0
RSO56		190	22.8	8.7
RSO56A		310	33.4	8.3
RSO56B		410	35.1	8.3
RSO57		110	69.6	8.3
RSO57A		340	106.5	8.3
RSO57B		380	159.5	8.3
RSO58		290	9.0	8.3
RSO58A		550	16.8	8.3
RSO58B		640	21.0	8.3
RSO59		260	23.8	8.3
RSO59A		330	54.1	8.3
RSO59B		410	66.6	8.3
RSO60		200	13.2	8.5
RSO60A		410	25.4	8.5
RSO60B		500	26.4	8.5
RSO61		70	40.4	8.5
RSO61A		210	47.9	8.5
RSO61B		230	39.6	8.5