



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218 www.alschemex.com

Page: 1
Finalized Date: 13-APR-2010
Account: REDMIN

CERTIFICATE PH10035872

Project: 925000.2050

P.O. No.: REDB1000243

This report is for 140 Soil samples submitted to our lab in Perth, WA, Australia on 26-MAR-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	
ME-ICP23	IONIC Leach - ICP-AES	ICP-AES

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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CERTIFICATE OF ANALYSIS PH10035872

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
REX - 001		1.7	<2	0.13	4040	<0.2	<3	0.11	250	<1	52.3	215	1	1.9	820	18.1
REX - 002		1.8	<2	0.04	1590	<0.2	<3	0.10	276	<1	29.4	179.5	<1	1.5	629	24.8
REX - 003		7.8	<2	0.22	1550	0.4	<3	0.11	204	<1	40.1	67.5	4	1.5	1640	30.9
REX - 004		1.9	2	0.16	2110	<0.2	<3	0.11	392	<1	123.5	33.0	2	0.4	1190	31.3
REX - 005		1.8	<2	0.13	1570	0.3	<3	0.13	171.0	<1	120.0	167.0	3	2.6	839	35.3
REX - 006		1.6	<2	0.92	760	0.2	<3	0.14	167.5	<1	75.6	49.6	6	6.0	628	25.1
REX - 007		0.9	2	0.92	380	1.3	<3	0.12	158.0	1	43.6	55.1	13	9.1	460	18.7
REX - 008		1.3	<2	0.25	470	0.6	<3	0.11	210	1	72.4	188.5	3	4.3	1260	28.3
REX - 009		1.3	<2	0.25	950	<0.2	<3	0.13	184.0	<1	67.3	117.5	3	3.6	1020	33.3
REX - 010		2.6	<2	0.19	1420	0.5	<3	0.13	183.0	1	117.0	172.5	4	1.6	2460	36.3
REX - 011		2.6	<2	0.16	2180	<0.2	<3	0.13	235	<1	75.6	233	2	1.0	2230	29.6
REX - 012		2.8	<2	0.17	1310	<0.2	<3	0.11	197.5	<1	90.2	126.5	2	1.4	2470	27.4
REX - 013		6.3	<2	0.08	1480	0.4	<3	0.11	259	1	54.1	228	2	1.0	1860	26.6
REX - 014		5.6	<2	0.19	1590	0.6	<3	0.10	257	1	50.4	223	2	0.8	2380	25.6
REX - 015		6.0	2	0.10	2660	<0.2	<3	0.12	215	1	164.0	216	1	1.2	2570	47.9
REX - 016		6.2	<2	0.10	1720	0.4	<3	0.07	203	1	121.5	120.5	2	1.4	3240	32.5
REX - 017		5.2	<2	0.14	1590	0.7	<3	0.15	160.5	1	245	376	1	2.0	2620	87.3
REX - 018		4.6	4	0.14	1460	0.8	<3	0.13	120.0	<1	161.0	305	3	2.1	51300	28.4
REX - 019		4.4	3	0.22	860	0.3	<3	0.15	216	1	75.3	392	3	1.3	9570	28.2
REX - 020		2.1	<2	0.23	750	0.6	<3	0.09	189.5	1	86.3	134.5	3	2.9	5720	27.1
REX - 021		1.3	<2	0.22	810	<0.2	<3	0.11	198.5	<1	40.3	128.0	3	2.8	1230	16.1
REX - 022		1.4	<2	0.21	720	0.5	<3	0.14	168.5	1	119.5	207	6	5.1	1540	34.7
REX - 023		4.4	60	0.18	730	9.4	6	0.35	73.7	1	193.0	755	27	5.6	52400	25.5
REX - 024		9.7	55	0.57	1210	1.2	35	0.18	135.0	<1	39.2	77.7	13	4.4	90600	8.3
REX - 025		5.5	23	0.09	190	2.1	<3	0.36	23.8	<1	34.1	49.7	8	4.0	73900	4.7
REX - 026		2.0	<2	0.19	2550	0.7	<3	0.13	140.5	<1	261	213	3	1.4	7150	43.3
REX - 027		1.6	<2	0.07	1060	0.3	<3	0.12	147.0	<1	176.5	217	3	1.6	2210	33.9
REX - 028		2.2	<2	0.28	1220	1.2	<3	0.17	131.0	<1	401	129.0	5	1.9	9250	61.5
REX - 029		1.5	4	0.30	1480	0.5	<3	0.14	170.0	<1	213	283	7	1.7	15300	40.8
REX - 030		2.5	<2	0.18	960	0.5	<3	0.12	171.5	<1	216	306	3	1.6	7170	49.0
REX - 031		1.5	<2	0.03	2680	0.5	<3	0.12	179.5	<1	295	375	2	1.3	2380	50.7
REX - 032		2.3	10	0.03	760	1.8	<3	0.13	147.5	1	83.7	286	6	2.7	48100	13.2
REX - 033		3.7	9	0.14	760	<0.2	<3	0.09	184.5	1	37.5	173.0	1	1.2	41200	11.2
REX - 034		2.9	2	0.31	1010	0.2	<3	0.10	178.5	<1	105.5	253	1	1.3	14450	36.1
REX - 035		1.8	<2	0.25	1700	0.8	<3	0.11	183.5	<1	163.5	157.5	4	2.7	1610	42.3
REX - 036		2.3	<2	0.24	1070	0.3	<3	0.07	147.5	<1	68.2	112.0	3	3.2	1900	29.4
REX - 037		5.1	<2	0.18	1860	0.3	<3	0.11	179.5	<1	187.0	448	2	1.1	9220	45.7
REX - 038		3.5	5	0.24	1520	0.8	<3	0.15	164.5	<1	272	181.5	5	1.7	8460	52.7
REX - 039		2.5	<2	0.28	1410	0.4	<3	0.15	161.0	1	225	378	3	2.1	14300	59.6
REX - 040		3.4	<2	0.20	2620	1.2	<3	0.16	185.0	1	444	683	4	1.3	13300	77.0



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		Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	In	La	Li	Lu	Mg
		ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm
		0.1	0.1	0.1	0.5	0.1	0.1	0.5	0.1	0.1	0.01	0.1	0.1	0.2	0.1	0.01
REX - 001		11.2	15.1	4.5	111.0	45.3	1.4	0.5	0.3	4.8	0.14	<0.1	35.2	2.3	1.2	80.0
REX - 002		15.0	11.5	4.6	43.0	45.0	0.8	0.7	0.4	6.8	0.09	<0.1	17.6	0.8	1.5	77.3
REX - 003		19.3	18.9	13.1	46.4	66.0	2.0	1.8	1.8	8.2	0.19	<0.1	49.8	6.7	2.0	56.9
REX - 004		21.3	13.9	4.8	55.6	55.0	1.2	1.3	0.5	9.0	0.11	<0.1	41.1	0.2	2.2	82.2
REX - 005		23.3	17.6	5.8	44.6	64.0	1.6	1.4	0.5	9.5	0.18	<0.1	51.8	1.8	2.6	52.5
REX - 006		14.3	16.5	7.7	24.1	57.2	1.8	1.6	0.7	6.3	0.23	<0.1	50.8	2.3	1.5	33.3
REX - 007		9.9	13.2	12.9	15.8	50.1	2.1	1.8	1.0	4.5	0.26	<0.1	65.3	3.9	1.0	22.0
REX - 008		16.1	16.7	6.0	14.2	60.1	1.6	1.4	0.4	7.3	0.16	<0.1	45.0	1.2	1.7	44.9
REX - 009		19.8	19.5	5.9	27.4	69.4	2.0	1.4	0.5	8.7	0.23	<0.1	52.8	1.7	2.1	46.6
REX - 010		22.3	20.7	8.5	41.8	72.7	1.9	1.8	0.4	9.7	0.21	<0.1	60.8	3.9	2.3	41.8
REX - 011		17.7	16.8	6.2	60.8	60.8	1.5	1.3	0.5	7.8	0.15	<0.1	48.8	2.8	1.7	72.4
REX - 012		17.0	15.6	8.0	36.0	53.5	1.4	1.1	0.4	7.6	0.12	<0.1	35.9	2.2	1.7	72.4
REX - 013		15.1	17.5	9.4	41.4	62.1	1.7	1.4	0.4	6.8	0.16	<0.1	50.9	4.9	1.5	54.3
REX - 014		15.9	14.2	7.9	44.6	50.9	1.2	1.0	0.7	7.0	0.12	<0.1	32.3	3.2	1.7	64.9
REX - 015		31.9	22.8	6.6	71.4	86.1	2.0	1.7	0.8	13.7	0.11	<0.1	54.4	1.5	3.2	82.0
REX - 016		19.7	19.6	7.5	50.0	71.5	2.0	1.5	1.3	8.6	0.13	<0.1	63.3	3.4	2.0	49.1
REX - 017		57.8	47.1	9.3	44.8	163.0	4.1	2.0	0.3	24.4	0.13	<0.1	123.5	3.8	5.6	70.8
REX - 018		26.7	9.3	7.6	40.1	38.3	1.3	1.1	0.3	9.3	0.12	<0.1	61.0	4.7	3.8	79.3
REX - 019		16.8	14.9	7.5	25.1	56.0	1.5	1.4	0.6	7.5	0.11	<0.1	40.7	2.5	1.6	64.4
REX - 020		16.7	14.9	6.2	22.4	55.8	1.6	1.4	0.6	7.2	0.16	<0.1	45.5	1.8	1.7	43.4
REX - 021		9.2	10.2	5.0	23.6	34.9	0.9	0.9	0.4	4.2	0.19	<0.1	31.7	1.4	1.0	40.4
REX - 022		21.5	20.0	7.9	22.8	73.5	2.1	1.8	0.4	9.2	0.17	<0.1	67.5	2.9	2.3	38.9
REX - 023		18.9	8.4	33.8	38.0	34.4	2.4	5.0	1.2	7.2	0.22	0.1	51.4	19.2	2.3	12.00
REX - 024		8.0	2.3	9.0	36.7	8.3	0.6	3.3	0.4	2.8	0.19	<0.1	13.8	5.9	1.4	41.5
REX - 025		4.0	1.3	11.8	11.3	6.0	0.5	2.2	0.7	1.4	0.18	<0.1	10.3	4.2	0.6	4.33
REX - 026		28.4	26.1	9.3	68.4	86.3	2.6	1.6	0.9	11.8	0.20	<0.1	98.4	3.7	3.1	66.8
REX - 027		20.8	20.8	8.1	29.7	67.2	1.7	1.3	0.9	9.0	0.30	<0.1	59.6	2.1	2.2	50.8
REX - 028		44.1	29.4	9.9	36.3	105.5	2.7	2.3	1.0	17.5	0.32	<0.1	109.5	3.1	5.2	38.3
REX - 029		27.1	22.4	14.1	44.6	76.1	2.4	2.0	0.7	11.4	0.21	<0.1	89.9	7.3	2.9	42.6
REX - 030		33.0	26.1	8.7	27.6	88.4	2.3	1.7	0.4	13.9	0.17	<0.1	67.1	2.7	3.5	44.4
REX - 031		34.4	30.7	8.0	71.0	99.3	2.6	1.6	0.3	14.2	0.14	<0.1	99.2	3.2	3.7	66.7
REX - 032		10.8	3.8	16.2	23.3	17.3	0.9	1.1	0.8	4.0	0.06	<0.1	22.9	4.5	1.3	40.3
REX - 033		9.7	3.1	5.7	20.9	15.0	0.4	0.7	0.9	3.6	0.05	<0.1	14.7	1.5	1.3	76.8
REX - 034		23.2	16.0	4.5	25.8	67.6	1.5	1.2	0.8	9.9	0.11	<0.1	50.5	1.3	2.1	61.8
REX - 035		27.2	23.4	7.0	46.3	84.7	2.2	1.6	0.6	11.4	0.23	<0.1	74.3	1.7	3.0	48.4
REX - 036		17.0	19.3	6.7	30.9	67.7	2.1	1.5	0.6	7.4	0.16	<0.1	65.1	2.5	1.7	43.0
REX - 037		28.3	23.5	6.4	48.6	95.2	2.6	1.5	0.5	12.2	0.17	<0.1	93.4	2.5	2.6	43.6
REX - 038		35.8	22.2	9.1	44.5	92.6	2.6	2.2	0.6	14.6	0.15	<0.1	94.3	4.1	3.6	56.3
REX - 039		45.1	26.9	9.2	39.8	94.2	2.2	1.8	0.4	17.9	0.14	<0.1	83.6	4.4	4.7	76.1
REX - 040		55.2	35.1	12.8	73.3	133.5	3.2	2.3	0.4	22.5	0.20	<0.1	131.5	7.8	5.4	75.8



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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
REX - 001		2.23	0.8	0.2	172.0	214	8	2	2	4	1.7	21.5	198.5	<0.1	<0.5
REX - 002		3.54	1.5	0.1	101.5	215	7	2	2	4	1.9	11.5	181.0	<0.1	<0.5
REX - 003		1.60	3.0	0.7	234	109	5	2	1	3	4.5	29.5	312	<0.1	<0.5
REX - 004		0.77	1.7	0.1	163.0	102	2	1	1	1	3.2	21.0	161.0	<0.1	<0.5
REX - 005		3.27	2.6	0.4	214	90	17	4	4	9	3.2	29.5	358	<0.1	<0.5
REX - 006		2.96	2.5	1.2	215	91	19	5	4	10	3.6	30.5	400	<0.1	<0.5
REX - 007		4.82	3.4	2.3	237	166	14	4	3	8	3.4	34.6	482	<0.1	0.8
REX - 008		11.45	3.2	0.7	197.0	173	11	3	3	6	3.3	26.3	429	<0.1	<0.5
REX - 009		4.14	2.7	0.5	243	106	19	5	4	10	3.2	32.3	381	<0.1	<0.5
REX - 010		3.70	3.5	0.7	255	134	10	3	2	5	4.6	34.4	311	<0.1	<0.5
REX - 011		4.18	1.5	0.3	207	208	7	2	2	4	2.8	27.1	238	<0.1	<0.5
REX - 012		2.38	1.3	0.2	174.0	122	3	1	1	2	3.2	22.4	334	<0.1	<0.5
REX - 013		3.55	2.2	0.5	216	219	5	2	1	3	3.2	27.4	188.5	<0.1	<0.5
REX - 014		4.05	2.0	0.4	149.0	193	4	1	1	2	2.4	18.1	218	<0.1	<0.5
REX - 015		4.81	2.3	0.2	251	144	10	3	2	6	4.5	32.4	370	<0.1	<0.5
REX - 016		2.37	2.8	0.5	273	135	6	2	2	3	3.3	36.8	218	<0.1	<0.5
REX - 017		7.03	1.8	0.3	527	384	17	5	4	9	6.0	73.9	286	<0.1	<0.5
REX - 018		5.47	4.3	0.4	172.5	53	<1	<1	<1	<1	3.2	30.0	326	<0.1	<0.5
REX - 019		9.84	4.9	0.4	184.5	204	6	2	1	3	2.9	24.3	279	<0.1	0.6
REX - 020		4.44	3.2	0.7	201	106	10	3	2	5	2.9	27.0	343	<0.1	<0.5
REX - 021		3.70	3.2	0.6	130.0	117	8	2	2	4	2.0	17.2	268	<0.1	<0.5
REX - 022		8.13	3.9	1.0	273	169	22	6	5	12	3.9	38.4	379	<0.1	<0.5
REX - 023		11.15	9.4	3.2	141.0	73	40	10	9	21	8.6	25.2	386	<0.1	3.5
REX - 024		1.47	39.4	1.0	26.6	20	32	8	7	17	7.3	4.9	320	<0.1	6.4
REX - 025		0.40	1.9	0.7	21.8	24	<1	<1	<1	<1	4.2	4.0	462	<0.1	2.1
REX - 026		2.30	1.9	0.4	355	73	13	4	3	7	3.5	53.2	294	<0.1	<0.5
REX - 027		4.80	4.7	0.4	243	94	6	2	2	4	3.1	32.7	241	<0.1	<0.5
REX - 028		2.91	4.0	0.5	396	44	5	2	1	3	5.2	59.1	319	<0.1	<0.5
REX - 029		5.44	3.7	1.2	293	80	3	1	1	2	5.3	43.6	298	<0.1	0.5
REX - 030		6.30	3.1	0.3	300	142	10	3	2	5	4.3	41.2	361	<0.1	<0.5
REX - 031		5.24	1.5	0.3	387	136	22	6	5	12	4.3	55.9	344	<0.1	<0.5
REX - 032		8.49	2.0	0.7	64.0	81	2	1	1	1	2.4	11.3	543	<0.1	0.5
REX - 033		2.80	3.8	0.2	48.8	73	<1	<1	<1	<1	1.2	7.5	379	<0.1	0.7
REX - 034		3.86	3.0	0.2	213	132	1	1	<1	1	3.0	29.3	340	<0.1	<0.5
REX - 035		4.91	2.3	0.6	296	119	21	6	5	11	3.3	41.7	279	<0.1	<0.5
REX - 036		2.56	3.7	0.7	276	86	4	1	1	2	3.3	38.1	320	<0.1	<0.5
REX - 037		5.26	3.6	0.2	359	155	12	3	3	6	3.4	51.1	300	<0.1	<0.5
REX - 038		4.18	3.8	0.4	346	101	16	4	4	8	4.8	51.3	386	<0.1	0.5
REX - 039		7.80	1.8	0.7	308	155	10	3	2	5	4.9	45.6	376	<0.1	<0.5
REX - 040		7.82	2.3	0.6	442	222	10	3	3	5	6.8	65.3	301	<0.1	<0.5



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CERTIFICATE OF ANALYSIS PH10035872

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
REX - 001		<2	44.9	<0.2	804	<1	6.6	<1	2.75	41	<0.5	1.4	4.0	<1	117.5	5.1
REX - 002		8	33.5	<0.2	574	<1	8.0	<1	1.31	22	<0.5	2.0	3.4	<1	160.5	6.5
REX - 003		20	61.8	0.5	466	<1	10.8	1	8.04	232	0.5	2.5	11.8	<1	186.0	8.7
REX - 004		12	44.9	<0.2	770	<1	9.7	<1	8.51	33	0.5	2.9	9.7	<1	200	10.1
REX - 005		24	56.4	0.3	347	<1	11.2	<1	11.50	106	0.8	3.3	13.1	<1	213	11.3
REX - 006		12	56.0	0.6	182	<1	9.3	<1	13.85	214	1.0	1.9	21.9	1	136.0	6.6
REX - 007		11	54.7	1.3	162	<1	7.4	<1	22.9	324	0.9	1.2	14.0	1	99.5	4.6
REX - 008		16	55.5	0.4	198	<1	10.0	<1	16.50	115	1.1	2.1	19.4	1	156.5	7.3
REX - 009		33	65.4	0.3	246	<1	11.5	<1	10.90	120	0.9	2.7	16.9	1	189.5	9.0
REX - 010		28	65.9	0.4	331	<1	12.2	<1	15.40	187	0.8	3.1	15.9	<1	213	10.2
REX - 011		7	55.1	0.2	522	<1	9.9	1	6.50	96	0.6	2.3	7.2	<1	181.0	7.9
REX - 012		8	47.8	0.2	434	<1	9.2	<1	5.99	94	0.5	2.2	9.5	<1	167.0	7.2
REX - 013		13	58.6	0.2	516	<1	9.6	<1	4.03	136	0.6	1.9	6.1	<1	162.5	6.5
REX - 014		7	43.3	0.2	469	<1	8.5	<1	3.22	108	<0.5	2.1	6.1	<1	167.0	6.7
REX - 015		31	73.3	<0.2	450	<1	15.2	<1	4.11	50	<0.5	4.3	9.0	1	285	14.3
REX - 016		15	67.7	0.2	365	<1	11.3	<1	7.67	146	0.5	2.6	9.2	<1	195.0	8.7
REX - 017		42	146.5	<0.2	314	<1	28.5	<1	3.69	79	0.5	7.8	12.1	1	477	24.6
REX - 018		10	35.0	0.2	226	<1	7.7	<1	4.42	108	1.0	4.6	11.9	1	202	15.7
REX - 019		19	50.5	0.2	330	<1	9.5	<1	8.02	115	0.7	2.2	12.7	1	165.5	7.1
REX - 020		7	52.4	0.4	244	<1	9.2	<1	10.10	140	1.0	2.2	16.9	1	155.0	7.4
REX - 021		4	33.2	0.3	260	<1	5.6	1	11.90	117	0.9	1.2	11.0	<1	98.7	4.1
REX - 022		32	69.0	0.6	238	<1	12.0	<1	18.30	171	0.9	3.0	16.4	1	194.5	10.0
REX - 023		10	33.2	2.4	124	<1	7.4	<1	33.1	817	2.6	3.2	19.6	1	130.0	10.8
REX - 024		<2	6.5	1.4	246	<1	2.0	<1	11.85	222	2.1	1.5	17.1	1	62.2	5.6
REX - 025		6	5.0	0.6	38	<1	1.3	<1	6.45	202	1.1	0.7	7.3	1	25.9	2.5
REX - 026		19	82.9	0.2	353	<1	14.5	<1	10.65	136	0.6	4.0	11.5	<1	247	13.0
REX - 027		24	61.5	0.2	276	<1	11.3	1	12.05	155	0.5	2.9	15.2	<1	187.0	9.4
REX - 028		33	96.5	0.3	259	<1	19.1	1	19.30	170	1.1	6.4	20.1	1	350	21.4
REX - 029		16	70.1	0.5	414	<1	13.2	<1	19.35	447	0.9	3.8	14.7	1	228	12.2
REX - 030		18	78.7	0.2	288	<1	15.5	<1	8.57	166	0.6	4.7	18.7	1	276	15.0
REX - 031		23	94.5	0.2	443	<1	16.7	<1	7.23	83	0.8	4.9	9.9	1	309	15.9
REX - 032		8	15.3	0.5	219	<1	3.7	<1	4.81	202	0.9	1.8	7.7	1	75.1	6.1
REX - 033		3	12.0	<0.2	273	<1	3.0	<1	1.80	60	1.0	1.6	8.3	<1	73.0	5.4
REX - 034		27	58.9	<0.2	297	<1	12.0	<1	6.45	64	0.5	3.0	14.4	<1	204	9.5
REX - 035		17	78.2	0.3	288	<1	14.2	<1	10.10	122	0.8	3.8	15.0	1	231	12.6
REX - 036		8	67.1	0.4	249	<1	10.7	<1	16.30	145	0.8	2.2	12.9	<1	161.5	7.3
REX - 037		17	89.2	0.2	393	<1	15.7	<1	7.38	64	0.7	3.6	11.0	<1	251	11.6
REX - 038		32	85.6	0.4	324	<1	16.8	<1	10.75	136	0.8	4.9	13.1	1	283	15.5
REX - 039		21	81.1	0.3	335	<1	17.7	<1	4.78	195	0.8	6.6	20.3	1	340	20.9
REX - 040		41	112.0	0.4	449	<1	23.5	<1	5.79	198	0.8	7.8	17.6	1	441	24.0



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CERTIFICATE OF ANALYSIS PH10035872

Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	pH-MS23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23
		Zn	Zr	Final pH	Al	Ba	Cu	Ni	P	S	Si	Sr
		ppb	ppb	Unity	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		10	0.1	0.1	1	0.05	0.05	0.05	0.1	0.1	0.5	0.05
REX - 001		10	2.3	8.3	28	3.83	0.92	0.24	0.3	3.1	2.3	0.80
REX - 002		50	2.9	8.3	41	1.38	0.63	0.20	0.6	1.9	2.3	0.52
REX - 003		20	19.5	8.3	33	1.57	1.74	0.09	0.4	3.7	3.3	0.43
REX - 004		10	7.1	8.3	46	1.78	1.29	0.07	0.4	3.2	0.9	0.74
REX - 005		10	10.3	8.3	42	1.35	0.87	0.09	0.3	3.1	7.7	0.33
REX - 006		10	15.8	8.3	44	0.60	0.65	0.07	0.4	3.8	7.5	0.15
REX - 007		20	16.6	8.3	22	0.26	0.48	0.16	0.3	2.2	4.5	0.11
REX - 008		50	13.0	8.3	32	0.44	1.36	0.18	0.4	2.4	6.0	0.19
REX - 009		20	11.5	8.3	44	0.81	1.08	0.09	0.4	3.0	6.3	0.23
REX - 010		10	17.1	8.3	38	1.19	2.64	0.13	0.4	3.1	4.0	0.28
REX - 011		20	9.6	8.3	30	2.04	2.39	0.19	0.2	1.8	5.1	0.49
REX - 012		20	9.4	8.3	33	1.09	2.67	0.13	0.4	2.5	3.1	0.41
REX - 013		20	13.7	8.3	34	1.41	1.91	0.18	0.4	2.5	1.5	0.47
REX - 014		20	9.0	8.3	30	1.53	2.36	0.16	0.3	1.7	2.0	0.41
REX - 015		40	12.7	8.3	54	2.38	2.89	0.14	0.7	3.6	2.7	0.43
REX - 016		20	11.5	8.3	32	1.58	3.74	0.13	0.4	3.1	2.3	0.35
REX - 017		40	9.5	8.3	65	1.68	2.83	0.39	0.6	4.5	6.8	0.28
REX - 018		10	8.7	8.3	75	1.31	63.9	0.05	0.9	7.3	9.7	0.19
REX - 019		50	11.1	8.3	37	0.76	11.10	0.20	0.4	2.1	3.7	0.31
REX - 020		10	17.5	8.3	47	0.65	6.68	0.11	0.4	3.3	3.5	0.23
REX - 021		10	8.5	8.3	32	0.71	1.35	0.10	0.3	2.3	3.6	0.25
REX - 022		20	15.3	8.3	43	0.72	1.74	0.16	0.4	3.6	7.4	0.21
REX - 023		60	59.6	8.0	231	0.59	63.3	0.06	5.8	14.1	80.2	0.10
REX - 024		20	43.7	8.3	45	0.86	114.5	<0.05	0.5	6.4	3.3	0.19
REX - 025		10	28.5	8.3	223	0.14	91.9	<0.05	12.3	14.5	17.4	<0.05
REX - 026		10	11.0	8.3	49	2.32	7.97	0.07	0.4	4.2	5.8	0.34
REX - 027		20	11.1	8.3	42	1.01	2.34	0.09	0.6	5.9	3.8	0.26
REX - 028		10	13.8	8.3	73	1.07	10.80	<0.05	0.9	8.1	11.5	0.22
REX - 029		20	24.4	8.3	43	1.41	18.10	0.07	0.6	4.7	7.9	0.40
REX - 030		30	12.9	8.3	66	0.86	8.19	0.14	0.8	5.4	6.7	0.28
REX - 031		40	8.0	8.3	50	2.53	2.55	0.12	0.4	3.8	8.6	0.42
REX - 032		50	12.2	8.0	146	0.64	54.9	0.05	3.0	4.6	18.2	0.20
REX - 033		10	5.7	8.1	68	0.68	49.1	0.06	0.8	2.7	4.3	0.25
REX - 034		10	7.9	8.1	48	0.86	16.65	0.13	0.4	2.5	2.8	0.27
REX - 035		20	10.5	8.1	53	1.56	1.62	0.12	0.4	3.5	5.7	0.27
REX - 036		10	11.0	8.5	27	1.01	2.23	0.10	0.3	2.8	2.7	0.23
REX - 037		10	10.1	8.3	56	1.70	11.05	0.15	0.4	3.5	5.3	0.39
REX - 038		10	18.5	8.3	81	1.49	9.85	0.09	1.0	4.9	11.6	0.30
REX - 039		530	12.4	8.0	77	1.35	17.10	0.13	0.6	6.3	4.4	0.31
REX - 040		580	26.5	8.0	67	2.53	15.80	0.21	0.6	7.8	5.1	0.43



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32 Shand Street

Stafford

Brisbane QLD 4053

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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
REX - 041		2.7	<2	0.32	850	0.6	<3	0.13	155.0	1	463	273	4	1.9	14800	85.0
REX - 042		2.4	<2	0.21	1050	0.6	<3	0.10	202	<1	125.0	145.0	2	1.1	4140	54.3
REX - 043		1.5	<2	0.07	1200	0.3	<3	0.16	209	1	194.5	306	3	1.1	885	78.7
REX - 044		3.4	9	0.22	1330	3.9	<3	0.12	139.5	1	235	627	10	2.0	23500	48.3
REX - 045		2.7	6	0.07	1720	1.0	<3	0.07	268	1	71.2	494	<1	0.5	31000	18.0
REX - 046		3.0	6	0.17	1100	1.3	<3	0.12	160.5	1	256	741	4	1.9	30300	31.9
REX - 047		3.7	6	0.29	1170	0.5	<3	0.11	203	1	156.0	299	2	1.5	19750	37.3
REX - 048		5.7	<2	0.03	2380	0.2	<3	0.10	224	1	151.5	257	<1	1.0	4060	48.1
REX - 049		4.9	<2	0.08	1920	0.9	<3	0.14	214	1	129.0	426	<1	1.5	3790	65.5
REX - 050		4.0	<2	0.06	1250	2.6	<3	0.12	115.5	1	1005	295	4	6.4	14300	206
REX - 051		2.5	4	0.14	1230	4.0	<3	0.18	129.0	3	747	465	2	15.6	10550	417
REX - 052		2.6	22	0.15	1420	10.0	<3	0.22	84.1	3	1610	314	13	17.4	12600	441
REX - 053		5.9	14	0.18	1270	1.2	<3	0.11	177.0	3	94.9	494	4	6.8	11750	56.6
REX - 054		3.2	14	0.13	1520	1.5	<3	0.13	136.0	1	317	258	7	4.4	5630	84.3
REX - 055		2.7	12	0.03	1000	1.3	<3	0.14	194.0	3	157.0	183.0	5	4.0	3140	30.3
REX - 056		3.9	22	0.05	1340	1.2	<3	0.15	151.5	2	288	224	10	3.6	3200	44.9
REX - 057		2.6	13	0.38	880	1.9	<3	0.07	308	4	61.9	624	4	2.3	11300	38.8
REX - 058		4.5	52	0.37	1180	12.7	3	0.20	112.5	4	477	306	23	8.5	15050	375
REX - 059		3.8	19	0.19	1620	1.5	<3	0.12	130.5	1	166.0	363	7	3.0	6800	53.3
REX - 060		2.2	8	0.11	750	1.0	<3	0.15	121.0	2	240	240	5	4.1	7760	53.8
REX - 061		2.3	5	0.13	1000	1.4	<3	0.14	144.0	3	275	173.0	5	2.8	8660	70.1
REX - 062		1.8	3	0.15	870	2.6	<3	0.14	152.0	5	198.5	507	2	8.5	10850	135.5
REX - 063		1.7	3	0.23	1250	3.2	<3	0.16	102.5	4	294	313	3	14.5	9000	248
REX - 064		2.9	40	0.23	1250	15.9	<3	0.28	62.8	3	1555	393	33	42.6	14350	736
REX - 065		2.5	12	0.24	860	6.1	<3	0.15	57.4	1	614	376	15	25.6	16000	337
REX - 066		2.3	<2	0.19	1340	3.2	<3	0.13	98.2	4	216	444	3	12.5	11850	157.0
REX - 067		2.4	14	0.26	1350	8.8	<3	0.21	78.0	3	913	340	10	16.2	10450	606
REX - 068		1.6	4	0.19	1400	5.8	<3	0.15	106.5	4	582	415	7	16.8	13650	303
REX - 069		1.1	18	0.11	1330	6.4	<3	0.17	142.0	4	391	867	7	12.6	16450	178.5
REX - 070		1.7	8	0.12	950	2.0	<3	0.17	132.5	2	358	507	8	3.6	7870	83.2
REX - 071		1.6	6	0.23	1370	1.7	<3	0.12	108.0	2	284	456	4	3.9	9850	62.5
REX - 072		2.4	12	0.26	1380	2.5	<3	0.12	159.5	6	133.0	529	5	3.3	11450	68.8
REX - 073		0.6	6	<0.02	540	0.8	<3	0.07	222	12	55.9	177.5	<1	1.1	5100	59.7
REX - 074		3.0	6	0.10	560	1.2	<3	0.11	178.5	5	82.9	512	3	2.8	7790	47.9
REX - 075		1.9	3	0.21	710	1.2	<3	0.07	158.5	6	94.0	167.0	7	3.2	7390	71.6
REX - 076		2.7	31	0.18	1280	8.2	4	0.17	90.8	2	658	752	18	6.6	26300	98.9
REX - 077		2.7	10	0.26	860	2.4	<3	0.10	122.0	4	284	228	7	11.2	15700	162.5
REX - 078		1.3	5	0.17	1140	1.9	<3	0.13	161.0	4	162.0	881	4	8.9	9850	74.8
REX - 079		1.4	5	0.12	1270	1.7	<3	0.13	166.0	5	126.0	833	1	7.1	6800	97.9
REX - 080		1.8	5	0.25	1640	2.7	<3	0.14	140.5	6	148.0	497	2	12.9	7200	211



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Project: 925000.2050

CERTIFICATE OF ANALYSIS PH10035872

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
REX - 041		58.7	38.5	8.9	25.5	150.0	3.5	2.8	0.6	24.2	0.19	<0.1	132.5	2.6	6.0	33.9
REX - 042		36.9	20.7	7.7	30.2	90.0	2.0	1.5	0.4	15.7	0.17	<0.1	61.6	3.6	3.8	48.1
REX - 043		53.9	42.5	10.9	33.1	139.0	2.8	2.0	0.4	22.5	0.15	<0.1	87.9	4.3	5.7	56.9
REX - 044		37.5	10.7	33.7	40.8	57.5	2.0	2.6	0.4	14.6	0.08	0.1	69.4	6.7	3.7	37.0
REX - 045		13.7	4.8	9.7	45.6	24.4	0.7	0.8	0.1	5.5	0.03	<0.1	23.6	1.5	1.2	113.0
REX - 046		26.5	11.1	15.1	32.3	49.7	1.5	1.7	0.9	10.1	0.12	<0.1	53.5	4.1	2.9	56.2
REX - 047		24.9	16.1	9.1	33.4	68.8	1.7	1.5	0.7	10.7	0.12	<0.1	47.5	3.5	2.2	74.2
REX - 048		31.0	28.1	6.3	63.0	99.5	2.6	1.4	0.3	13.2	0.10	<0.1	65.0	2.1	3.0	56.1
REX - 049		38.6	46.5	7.1	51.5	161.0	4.1	1.7	0.5	17.1	0.17	<0.1	122.0	3.2	3.5	59.2
REX - 050		139.5	106.5	11.0	37.1	363	8.0	5.7	1.0	56.6	0.19	<0.1	235	3.6	17.4	35.7
REX - 051		300	168.5	8.8	33.3	628	9.9	9.9	0.8	122.0	0.13	<0.1	238	2.0	37.4	36.0
REX - 052		317	190.0	29.4	49.8	669	12.9	11.4	1.7	126.0	0.56	0.1	370	14.6	43.2	15.35
REX - 053		37.4	22.3	9.1	38.7	90.6	2.0	2.6	1.2	16.0	0.16	<0.1	48.5	4.0	4.3	60.9
REX - 054		55.0	30.8	10.4	44.9	129.5	2.6	3.9	0.5	24.1	0.16	<0.1	100.0	5.4	5.7	30.9
REX - 055		19.2	14.6	9.6	29.4	54.0	1.5	1.9	0.7	8.1	0.09	<0.1	61.7	2.5	1.9	23.8
REX - 056		27.3	24.2	11.2	41.9	87.0	2.4	2.5	0.6	11.8	0.20	0.1	88.9	4.7	2.7	21.0
REX - 057		28.6	14.3	11.0	25.7	56.6	1.2	1.7	1.0	11.9	0.13	<0.1	17.5	5.5	3.3	44.5
REX - 058		319	66.2	24.8	44.7	318	3.9	10.4	1.2	120.0	0.47	0.1	81.2	19.5	43.9	18.30
REX - 059		32.1	24.8	9.3	47.3	91.4	2.2	2.6	1.0	14.3	0.19	0.1	54.1	4.5	3.2	28.2
REX - 060		34.6	27.3	11.3	23.2	98.8	2.5	2.6	0.9	14.7	0.17	<0.1	80.7	5.1	3.7	25.5
REX - 061		49.8	27.6	10.7	29.4	110.0	2.2	2.9	0.6	20.6	0.22	<0.1	51.7	5.1	5.3	43.7
REX - 062		92.2	55.0	7.9	25.0	214	3.0	3.8	1.4	39.1	0.16	<0.1	70.2	3.6	10.2	29.2
REX - 063		171.5	98.6	9.5	36.3	367	4.9	6.3	1.0	71.0	0.31	<0.1	99.8	4.6	21.2	42.0
REX - 064		589	279	77.8	69.4	1040	18.6	22.6	2.1	225	0.48	0.2	519	37.7	90.3	27.4
REX - 065		239	139.5	32.2	37.3	507	8.8	9.4	1.7	96.5	0.33	0.1	213	17.4	32.0	33.5
REX - 066		108.5	72.3	11.3	37.3	270	4.8	4.4	1.1	44.8	0.20	<0.1	127.5	4.3	13.1	39.6
REX - 067		447	217	23.9	46.1	881	12.7	15.4	1.5	180.5	0.34	0.1	357	12.5	57.8	33.1
REX - 068		214	124.5	14.0	41.6	478	7.2	7.8	1.3	87.6	0.30	<0.1	172.0	7.0	25.7	43.5
REX - 069		143.0	57.3	15.7	38.9	232	3.9	4.7	0.4	54.9	0.12	<0.1	117.0	6.0	16.9	46.8
REX - 070		58.0	33.3	13.9	30.0	130.5	2.8	3.6	0.7	24.0	0.19	<0.1	75.1	7.7	6.3	32.2
REX - 071		42.0	30.0	8.7	38.3	106.5	2.4	2.3	1.3	17.4	0.21	<0.1	78.3	3.9	4.7	34.5
REX - 072		48.6	25.5	10.3	37.5	98.2	1.7	2.9	1.0	20.4	0.14	<0.1	38.9	6.5	5.6	27.7
REX - 073		48.1	16.6	8.5	15.6	68.9	0.9	1.3	0.2	19.0	0.04	<0.1	13.1	1.9	4.7	46.9
REX - 074		35.9	17.5	9.7	17.2	68.8	1.4	1.8	0.7	14.8	0.14	<0.1	31.9	5.0	4.0	24.0
REX - 075		49.4	29.4	18.2	26.8	109.0	2.3	3.4	1.1	20.9	0.20	<0.1	30.8	15.5	5.6	33.3
REX - 076		77.7	38.7	27.2	47.7	139.0	3.6	6.6	1.4	29.7	0.36	0.1	119.5	18.8	10.1	26.5
REX - 077		106.0	76.7	14.9	28.6	284	5.0	5.8	2.2	44.5	0.20	<0.1	112.0	8.8	12.3	31.2
REX - 078		49.8	33.2	13.1	34.6	124.5	2.4	3.1	0.9	21.1	0.14	<0.1	58.9	6.6	5.4	50.1
REX - 079		66.3	39.5	7.3	33.1	155.0	2.3	2.8	0.5	28.3	0.09	<0.1	57.2	2.2	6.9	49.1
REX - 080		149.0	85.0	7.3	43.9	323	4.8	5.1	0.7	61.7	0.16	<0.1	132.5	2.6	16.0	55.5



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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
REX - 041		5.72	4.5	0.6	497	91	4	1	1	2	6.6	72.4	384	<0.1	<0.5
REX - 042		3.79	2.0	0.4	257	159	9	3	2	5	4.3	33.8	230	<0.1	<0.5
REX - 043		8.38	2.0	0.4	409	257	16	4	4	9	5.6	54.3	189.5	<0.1	<0.5
REX - 044		6.37	1.4	1.0	190.0	140	38	10	9	19	5.0	31.9	365	<0.1	<0.5
REX - 045		6.56	0.8	0.2	64.8	262	5	2	1	3	1.6	10.5	321	<0.1	<0.5
REX - 046		14.40	3.2	0.5	157.5	220	6	2	2	3	4.1	25.9	422	<0.1	0.5
REX - 047		6.40	4.6	0.4	189.0	224	5	2	1	3	3.8	25.4	324	<0.1	<0.5
REX - 048		4.83	2.0	0.1	287	397	22	6	5	12	3.9	37.4	251	<0.1	<0.5
REX - 049		6.85	2.1	0.2	502	278	21	6	5	11	4.9	66.1	340	<0.1	<0.5
REX - 050		6.22	5.4	1.1	977	226	17	4	4	9	14.4	138.0	294	<0.1	0.5
REX - 051		14.65	5.0	0.6	1155	494	14	4	3	8	28.3	155.5	433	<0.1	<0.5
REX - 052		8.53	7.9	2.6	1590	173	37	9	8	20	28.0	226	502	<0.1	1.5
REX - 053		12.20	14.1	0.8	186.0	226	7	2	2	4	6.6	24.8	381	<0.1	0.9
REX - 054		9.83	7.4	1.5	313	98	17	4	4	9	8.4	48.5	281	<0.1	0.8
REX - 055		10.05	4.3	1.0	163.5	227	22	5	5	12	4.3	26.3	240	<0.1	0.7
REX - 056		10.75	6.7	1.9	279	146	39	10	8	21	5.7	44.3	271	<0.1	1.5
REX - 057		19.05	13.6	1.0	87.7	407	5	2	1	3	4.7	10.6	300	<0.1	0.6
REX - 058		9.72	12.4	2.6	393	98	32	8	7	17	28.8	55.0	449	<0.1	2.2
REX - 059		9.42	11.5	1.3	233	128	19	5	4	10	5.2	32.2	268	<0.1	1.4
REX - 060		7.96	8.5	1.0	293	196	13	4	3	7	5.5	41.8	350	<0.1	0.9
REX - 061		5.25	9.8	1.0	246	202	11	3	3	6	6.8	32.6	367	<0.1	<0.5
REX - 062		9.85	6.4	0.5	362	473	9	3	2	5	10.6	44.8	419	<0.1	0.5
REX - 063		5.67	5.8	0.7	584	223	13	4	3	7	16.4	71.9	448	<0.1	0.5
REX - 064		10.70	6.6	8.0	2200	395	25	7	6	14	57.6	314	600	0.1	3.6
REX - 065		6.49	8.5	3.3	1030	203	14	4	3	8	22.5	140.0	495	<0.1	1.5
REX - 066		9.50	7.5	0.9	641	334	9	2	2	5	10.6	84.0	400	<0.1	0.5
REX - 067		6.97	5.5	2.1	1595	272	16	4	4	8	42.6	210	475	<0.1	1.2
REX - 068		6.51	5.0	0.9	880	321	9	3	2	5	20.0	118.0	463	<0.1	0.7
REX - 069		20.2	4.4	0.8	438	734	16	4	3	8	12.4	65.6	536	<0.1	1.1
REX - 070		9.36	6.2	1.5	307	277	25	7	6	13	8.0	43.5	383	<0.1	0.8
REX - 071		11.30	5.3	0.7	305	198	28	7	6	14	5.5	44.7	373	<0.1	0.8
REX - 072		13.45	8.6	0.8	174.5	576	17	5	4	9	7.0	23.1	373	<0.1	1.1
REX - 073		11.75	2.1	0.2	86.4	625	12	3	3	6	4.5	10.3	429	<0.1	<0.5
REX - 074		12.95	7.6	0.8	140.5	263	14	4	3	7	4.5	18.9	413	<0.1	0.7
REX - 075		5.16	6.4	2.1	188.5	233	7	2	2	4	8.4	21.6	443	<0.1	0.8
REX - 076		11.80	10.7	2.6	387	143	26	7	6	13	12.9	63.8	458	<0.1	2.6
REX - 077		4.91	9.7	1.3	603	378	10	3	2	5	12.5	76.1	582	<0.1	0.8
REX - 078		16.30	8.6	1.0	256	556	10	3	2	5	6.7	34.3	466	<0.1	0.8
REX - 079		16.35	6.5	0.3	272	916	6	2	2	3	7.4	34.7	505	<0.1	<0.5
REX - 080		7.84	5.1	0.5	611	490	11	3	3	6	15.0	81.8	540	<0.1	<0.5



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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
		2	0.1	0.2	1	1	0.1	1	0.02	5	0.5	0.1	0.1	1	0.1	0.1
REX - 041		38	130.0	0.3	264	<1	26.7	<1	15.00	203	0.9	8.3	34.9	1	452	25.6
REX - 042		15	73.1	0.2	344	<1	16.4	<1	3.88	107	<0.5	5.3	12.2	1	300	16.5
REX - 043		22	120.5	0.2	447	<1	24.8	<1	4.42	116	0.6	7.7	11.5	1	429	25.4
REX - 044		20	47.8	0.8	273	<1	12.8	<1	13.50	306	1.1	5.8	20.4	1	241	17.8
REX - 045		<2	18.3	0.2	600	<1	4.9	<1	1.19	56	0.5	2.0	8.5	<1	104.5	6.2
REX - 046		8	39.6	0.3	290	<1	9.1	<1	5.31	174	1.0	3.9	26.0	1	176.5	12.8
REX - 047		13	54.6	0.3	371	<1	11.7	<1	6.81	117	0.8	3.4	13.4	1	218	10.4
REX - 048		28	84.8	<0.2	456	<1	16.1	<1	2.63	44	0.5	4.2	8.7	1	276	13.7
REX - 049		31	144.0	<0.2	456	<1	23.5	<1	3.62	69	0.8	4.7	12.7	1	353	15.5
REX - 050		88	326	0.9	688	1	65.8	<1	59.7	229	2.2	21.5	72.4	2	1115	75.7
REX - 051		199	450	0.5	695	2	122.5	<1	41.2	149	3.4	47.9	142.5	5	2370	163.0
REX - 052		213	541	1.9	289	2	131.5	1	126.0	669	4.1	51.3	163.5	5	2340	182.5
REX - 053		22	59.8	0.7	919	<1	17.0	<1	49.8	226	1.9	5.3	65.6	1	369	17.8
REX - 054		25	88.0	1.3	400	<1	25.1	1	68.2	341	2.0	7.5	59.8	1	481	25.1
REX - 055		14	44.5	0.7	449	<1	9.7	<1	30.1	195	2.1	2.6	42.3	1	161.0	8.7
REX - 056		27	76.0	1.5	454	<1	14.8	<1	31.6	344	1.8	3.9	77.4	1	219	12.6
REX - 057		19	36.0	0.6	668	<1	10.9	<1	22.6	248	1.6	4.3	36.9	1	287	13.9
REX - 058		154	154.5	2.0	249	2	86.7	1	98.7	775	2.9	54.1	199.5	6	2340	186.0
REX - 059		32	71.7	1.0	607	<1	16.4	<1	33.9	255	1.7	4.3	109.0	1	290	14.1
REX - 060		30	82.4	0.6	366	<1	16.9	<1	36.8	271	1.3	4.8	71.9	1	291	16.2
REX - 061		30	78.3	0.4	332	<1	20.5	<1	26.8	261	1.2	7.1	45.3	1	417	22.8
REX - 062		49	140.0	0.3	432	1	39.8	<1	17.65	151	2.5	13.2	102.0	2	797	43.2
REX - 063		101	244	0.4	424	1	72.8	<1	34.4	175	3.5	26.1	155.0	3	1365	88.7
REX - 064		302	759	4.8	345	4	212	1	160.0	2390	7.2	101.0	277	10	4440	367
REX - 065		144	386	2.1	289	2	100.5	<1	102.0	947	4.4	37.4	156.5	4	1835	133.0
REX - 066		70	216	0.5	500	1	48.3	<1	31.5	248	2.3	16.0	153.0	2	875	56.4
REX - 067		262	562	1.3	341	3	175.0	<1	82.2	608	4.0	72.0	230	7	3810	244
REX - 068		132	335	0.7	465	1	91.4	1	42.6	300	2.6	32.5	181.0	3	1745	110.0
REX - 069		73	153.5	0.6	468	1	48.6	<1	18.15	217	3.1	22.4	124.5	2	1025	73.6
REX - 070		47	97.5	0.9	288	<1	24.3	<1	25.5	310	1.4	8.6	67.1	1	443	28.4
REX - 071		21	87.5	0.4	410	<1	19.2	<1	28.2	172	1.6	6.0	74.8	1	338	20.5
REX - 072		36	64.5	0.5	642	<1	19.3	<1	21.8	320	2.2	7.1	158.5	1	393	24.1
REX - 073		20	37.1	<0.2	377	<1	15.0	<1	2.04	92	0.7	7.0	24.6	1	406	21.2
REX - 074		23	46.6	0.3	274	<1	13.2	<1	10.70	202	1.1	5.2	43.8	1	330	16.6
REX - 075		32	72.8	0.9	449	<1	20.7	<1	24.5	767	1.0	7.1	67.5	1	450	23.6
REX - 076		49	111.5	2.0	223	1	27.6	<1	87.4	844	2.6	12.5	115.5	2	522	43.2
REX - 077		68	216	0.9	361	1	50.9	<1	40.1	333	1.8	15.2	116.5	2	849	52.1
REX - 078		20	89.6	0.5	605	<1	22.9	<1	18.60	301	2.0	7.1	70.5	1	390	23.0
REX - 079		41	101.5	<0.2	719	<1	29.1	<1	15.00	124	1.8	9.1	79.1	1	565	29.4
REX - 080		88	216	0.2	657	1	61.8	<1	19.10	144	1.7	21.5	129.0	2	1285	69.4



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CERTIFICATE OF ANALYSIS PH10035872

Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	pH-MS23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23
		Zn	Zr	Final pH	Al	Ba	Cu	Ni	P	S	Si	Sr
		ppb	ppb	Unity	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		10	0.1	0.1	1	0.05	0.05	0.05	0.1	0.1	0.5	0.05
REX - 041		290	15.9	8.1	77	0.92	17.85	0.08	0.7	6.9	6.1	0.25
REX - 042		330	10.4	8.1	56	1.33	4.77	0.16	0.7	3.2	3.6	0.35
REX - 043		350	11.0	8.1	61	1.15	0.85	0.25	0.9	4.2	10.7	0.43
REX - 044		510	27.3	8.0	134	1.15	28.3	0.11	1.2	8.4	9.9	0.26
REX - 045		290	6.1	8.1	78	1.50	32.8	0.15	0.4	1.3	1.8	0.60
REX - 046		210	16.4	8.0	82	0.99	31.1	0.16	0.8	5.7	3.5	0.30
REX - 047		190	13.0	8.3	50	1.05	21.3	0.20	0.4	2.4	1.5	0.37
REX - 048		200	11.2	8.3	60	2.24	4.35	0.38	0.4	2.9	2.0	0.46
REX - 049		230	10.8	8.1	53	2.05	4.12	0.24	0.5	3.9	3.5	0.48
REX - 050		190	30.5	8.1	62	1.11	15.10	0.21	0.5	5.6	4.8	0.68
REX - 051		320	36.8	8.1	64	1.05	11.00	0.47	0.7	6.4	8.2	0.64
REX - 052		280	61.8	8.1	98	1.15	12.65	0.16	1.1	10.2	36.5	0.21
REX - 053		110	22.4	8.3	13	1.44	12.20	0.19	0.5	3.4	6.4	1.01
REX - 054		150	38.1	8.3	42	1.54	5.63	0.08	0.7	4.8	3.8	0.40
REX - 055		240	20.0	8.1	66	1.11	2.93	0.15	0.6	3.1	5.3	0.48
REX - 056		280	27.2	8.0	88	1.17	3.12	0.14	0.9	7.5	11.4	0.44
REX - 057		110	15.1	8.1	10	1.03	11.70	0.38	0.5	2.6	11.0	0.72
REX - 058		350	56.7	8.1	124	0.87	14.65	0.08	1.8	10.6	35.1	0.18
REX - 059		150	23.8	8.1	52	1.51	6.79	0.12	0.5	5.3	5.7	0.61
REX - 060		140	22.8	8.3	61	0.61	8.13	0.20	0.8	7.7	6.7	0.34
REX - 061		90	24.0	8.3	60	1.11	8.17	0.18	0.9	6.1	4.4	0.35
REX - 062		230	23.6	8.3	63	0.94	11.35	0.44	0.7	5.8	4.5	0.42
REX - 063		170	28.5	8.3	55	1.27	9.29	0.20	0.7	7.4	6.6	0.39
REX - 064		270	151.0	8.0	63	0.83	14.05	0.34	1.1	15.7	12.5	0.19
REX - 065		160	62.2	8.1	49	0.75	17.00	0.18	0.7	7.8	8.0	0.23
REX - 066		120	25.3	8.1	47	1.22	12.95	0.33	0.6	6.1	4.8	0.53
REX - 067		190	73.6	8.1	67	1.17	10.15	0.24	1.0	10.3	16.2	0.24
REX - 068		110	42.3	8.1	64	1.31	13.75	0.29	0.7	7.2	11.6	0.42
REX - 069		230	25.7	8.3	100	1.08	16.95	0.68	1.1	5.9	21.6	0.44
REX - 070		370	31.5	8.1	83	0.78	8.00	0.26	1.2	7.0	15.5	0.30
REX - 071		130	21.2	8.3	58	1.12	9.99	0.15	0.5	4.2	6.7	0.41
REX - 072		130	28.5	8.1	56	1.13	12.05	0.53	0.7	4.5	7.6	0.65
REX - 073		640	5.3	8.0	75	0.79	5.52	0.50	0.7	2.1	5.2	0.38
REX - 074		150	13.3	8.3	65	0.64	8.36	0.23	0.6	2.8	6.1	0.28
REX - 075		120	29.5	8.3	46	0.61	7.69	0.22	0.6	6.0	5.7	0.43
REX - 076		140	69.4	8.3	105	0.98	28.2	0.12	1.3	8.5	33.7	0.21
REX - 077		80	42.8	8.3	50	0.72	16.60	0.36	0.5	7.0	4.4	0.35
REX - 078		210	27.2	8.3	45	2.05	10.05	0.38	0.6	4.0	3.7	0.65
REX - 079		200	17.1	8.3	47	1.56	7.45	0.87	0.6	2.9	6.9	0.77
REX - 080		190	24.7	8.3	58	1.82	7.56	0.45	0.5	5.9	7.3	0.68



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CERTIFICATE OF ANALYSIS PH10035872

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
REX - 081		1.7	<2	0.28	1330	3.0	<3	0.14	106.0	3	334	259	2	11.8	8850	179.0
REX - 082		1.9	<2	0.23	950	3.9	<3	0.13	115.0	4	349	386	5	12.8	6150	189.5
REX - 083		1.9	<2	0.37	1970	3.0	<3	0.10	152.5	6	251	326	1	5.8	3470	128.5
REX - 084		2.5	6	0.18	1710	1.8	<3	0.10	154.5	3	193.0	601	3	3.5	7190	62.2
REX - 085		2.4	14	0.09	1180	3.4	<3	0.23	124.5	3	537	942	11	5.1	19150	60.4
REX - 086		1.8	15	0.11	970	4.7	<3	0.17	113.0	4	787	1035	13	4.9	14650	70.7
REX - 087		1.8	25	0.18	1290	7.9	<3	0.18	72.3	3	623	266	23	7.4	24600	119.5
REX - 088		4.3	27	0.10	1750	2.6	3	0.13	99.2	1	700	187.5	21	3.3	4210	68.7
REX - 089		3.2	13	0.16	1060	2.0	<3	0.12	113.0	1	560	224	10	2.6	5590	127.0
REX - 090		2.3	89	0.05	1060	4.2	12	0.14	103.5	1	336	55.1	24	4.1	1710	37.6
REX - 091		2.3	40	0.12	920	5.7	9	0.15	66.8	1	548	142.5	34	8.4	5630	80.9
REX - 092		3.3	34	0.09	2500	8.5	7	0.16	127.0	2	636	427	23	4.0	5730	91.5
REX - 093		2.0	20	0.12	1530	5.3	<3	0.17	105.0	4	384	780	15	2.6	9980	106.0
REX - 094		1.7	9	0.08	1460	4.2	<3	0.13	132.5	5	784	806	9	3.6	12100	114.0
REX - 095		1.2	<2	0.08	1440	2.4	<3	0.16	143.5	3	453	355	6	3.7	7100	110.0
REX - 096		0.9	<2	0.10	1780	2.3	<3	0.13	137.5	6	281	301	3	4.8	2160	169.5
REX - 097		1.4	<2	0.17	1380	6.0	<3	0.17	97.6	4	716	169.0	5	9.4	3510	303
REX - 098		0.8	<2	0.19	1780	2.7	<3	0.18	124.5	2	471	393	6	4.0	2880	159.5
REX - 099		1.9	18	0.26	1840	21.9	<3	0.24	71.5	2	2070	134.0	31	12.1	10550	441
REX - 100		1.9	14	0.11	1660	7.9	<3	0.18	99.4	3	1370	295	19	6.5	11250	164.5
REX - 101		3.7	9	0.09	1190	3.0	<3	0.16	112.5	1	1080	249	11	4.2	8180	71.0
REX - 102		7.5	14	0.07	1320	2.0	6	0.18	127.5	1	677	159.5	15	3.7	5370	66.1
REX - 103		2.2	14	0.06	940	1.5	3	0.12	137.5	1	488	79.7	15	3.5	2510	40.7
REX - 104		1.7	36	0.11	820	8.1	5	0.20	78.9	2	1145	239	38	9.4	9030	153.0
REX - 105		2.1	56	0.06	930	4.6	11	0.22	81.8	1	365	55.8	29	4.9	2170	47.9
REX - 106		1.3	18	0.09	820	7.6	3	0.17	99.3	1	647	80.8	65	9.1	1450	54.0
REX - 107		1.2	5	0.05	1090	1.9	<3	0.13	120.5	1	530	96.3	17	3.1	2790	49.1
REX - 108		0.8	3	0.06	1000	3.1	<3	0.15	131.0	1	417	255	17	5.4	1230	40.7
REX - 109		1.7	16	0.11	1210	11.7	<3	0.18	79.0	2	621	197.5	66	10.4	3710	48.2
REX - 110		1.6	16	0.08	1220	17.9	<3	0.25	59.6	<1	768	373	98	13.4	4560	72.6
REX - 111		0.7	8	0.10	1320	21.4	<3	0.20	22.2	<1	1740	106.0	75	12.6	1100	164.0
REX - 112		0.6	2	0.05	530	4.8	<3	0.13	79.7	2	828	80.7	23	4.9	560	109.5
REX - 113		0.6	6	0.05	570	4.2	<3	0.14	93.0	1	930	154.0	36	7.8	792	107.0
REX - 114		1.1	25	0.16	1660	28.9	<3	0.23	22.7	1	1850	151.5	133	20.9	4330	228
REX - 115		1.2	2	0.06	810	6.8	<3	0.15	82.1	2	746	282	42	3.3	2580	74.8
REX - 116		1.0	9	0.06	1250	21.0	<3	0.18	76.6	1	423	194.5	100	10.3	3110	29.7
REX - 117		1.3	7	0.11	1000	5.1	<3	0.13	107.0	1	607	271	27	4.7	3790	73.4
REX - 118		0.9	3	0.03	1380	2.2	<3	0.12	119.0	1	283	134.5	17	2.8	2470	44.6
REX - 119		1.2	17	0.14	1000	8.7	<3	0.13	49.4	<1	1765	145.5	36	9.2	3370	202
REX - 120		1.1	6	0.13	800	2.5	<3	0.15	84.4	1	768	180.5	19	4.8	2880	88.2



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CERTIFICATE OF ANALYSIS PH10035872

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
REX - 081		116.5	86.3	8.7	37.7	312	5.7	4.6	1.3	49.4	0.26	<0.1	164.0	3.5	13.3	58.5
REX - 082		130.0	89.9	15.4	31.0	315	6.1	4.9	1.2	53.6	0.42	<0.1	150.5	7.3	16.6	29.8
REX - 083		92.3	63.9	7.0	52.2	216	4.2	3.2	0.5	37.3	0.15	<0.1	116.5	2.3	11.0	60.2
REX - 084		43.2	34.5	9.9	46.3	113.5	2.5	2.2	0.9	17.6	0.19	<0.1	86.0	3.6	4.7	47.9
REX - 085		41.6	28.2	17.1	39.1	107.5	3.0	4.1	1.3	16.8	0.23	0.1	129.0	8.1	4.5	17.45
REX - 086		49.3	32.4	22.0	34.0	120.5	3.4	5.2	1.4	19.9	0.28	0.1	134.0	7.7	6.0	18.70
REX - 087		85.2	52.4	34.1	54.2	176.5	4.9	8.0	2.1	34.3	0.56	0.1	135.0	29.2	10.8	24.2
REX - 088		44.1	32.2	23.7	59.4	120.0	4.0	5.2	1.1	18.8	0.26	0.1	164.5	15.0	4.8	13.95
REX - 089		83.1	36.3	16.1	39.0	177.5	3.9	4.0	1.0	23.3	0.23	0.1	154.5	8.9	9.6	19.50
REX - 090		21.4	11.9	23.1	45.5	57.6	2.0	4.4	0.8	6.0	0.12	0.1	112.0	9.7	2.3	7.95
REX - 091		51.1	23.7	40.8	54.5	111.0	3.8	8.3	1.0	14.0	0.20	0.2	159.5	21.9	6.2	11.05
REX - 092		60.6	27.0	30.2	88.8	127.5	3.5	5.1	0.7	16.4	0.09	0.2	155.5	15.3	6.9	33.9
REX - 093		67.0	27.4	19.3	52.5	136.0	2.5	5.1	1.4	18.8	0.15	0.1	94.5	9.6	7.4	19.05
REX - 094		73.5	32.9	16.7	47.6	166.0	3.3	4.4	0.9	20.6	0.10	0.1	155.5	5.8	8.5	23.5
REX - 095		66.0	38.6	11.3	46.5	179.5	3.6	3.3	0.9	18.8	0.14	<0.1	132.0	4.6	7.4	41.7
REX - 096		107.0	58.6	8.0	52.5	264	4.6	3.8	0.4	30.6	0.17	<0.1	174.0	2.4	12.5	40.0
REX - 097		190.0	108.5	15.8	48.9	466	9.0	6.7	1.6	52.4	0.46	<0.1	304	6.1	24.3	20.6
REX - 098		88.5	62.4	11.8	58.0	289	5.8	4.5	1.0	26.2	0.27	<0.1	247	4.4	9.0	37.8
REX - 099		294	141.5	51.5	86.8	656	14.6	13.8	1.2	78.1	0.50	0.2	642	24.5	41.8	10.85
REX - 100		104.5	58.1	26.5	64.1	267	6.6	6.9	1.6	28.2	0.30	0.1	317	13.5	13.2	20.8
REX - 101		42.0	26.4	16.1	40.5	128.0	3.4	4.5	0.5	11.8	0.13	0.1	222	4.4	4.8	16.00
REX - 102		38.0	24.6	17.1	44.8	114.0	3.0	4.1	0.4	10.9	0.13	0.1	160.5	4.6	4.2	18.90
REX - 103		22.5	15.7	18.0	34.2	73.9	2.1	3.1	0.7	6.5	0.08	0.1	140.0	5.5	2.2	18.95
REX - 104		97.2	48.1	53.1	51.2	219	6.0	9.0	1.6	26.5	0.26	0.2	255	18.3	12.1	10.40
REX - 105		27.5	13.6	27.4	46.0	65.0	2.3	5.6	1.0	7.8	0.18	0.1	122.0	12.3	2.9	11.15
REX - 106		31.5	18.1	90.3	70.6	83.0	4.3	9.4	1.4	8.7	0.13	0.4	201	31.0	3.4	17.20
REX - 107		27.8	17.9	22.2	41.8	85.2	2.3	3.6	1.1	8.1	0.10	0.1	138.0	8.2	2.9	26.6
REX - 108		23.3	14.5	21.6	39.3	68.7	2.1	3.1	0.7	6.8	0.11	0.1	132.0	10.0	2.3	23.7
REX - 109		29.0	16.4	53.0	74.9	79.0	3.4	10.0	1.6	8.1	0.23	0.3	182.0	23.2	3.4	11.85
REX - 110		41.9	22.7	71.7	85.3	117.5	5.1	11.0	1.2	11.7	0.27	0.5	223	43.4	4.8	24.5
REX - 111		108.0	49.8	64.9	78.0	261	8.5	11.8	1.2	28.9	0.66	0.4	495	25.9	14.4	41.5
REX - 112		74.4	34.6	16.3	21.8	179.0	4.4	5.3	1.7	19.9	0.37	0.1	245	8.0	9.5	27.4
REX - 113		66.3	29.4	28.4	32.1	160.5	4.0	6.2	1.1	18.8	0.32	0.1	265	7.8	7.2	26.6
REX - 114		149.5	59.9	118.0	114.0	320	10.4	19.3	1.9	39.7	0.87	0.5	473	53.7	19.7	47.1
REX - 115		43.6	24.1	29.6	33.6	126.0	3.1	5.2	0.8	12.2	0.15	0.2	204	12.8	5.0	31.8
REX - 116		17.7	10.1	43.2	86.4	48.3	2.7	12.0	1.0	4.8	0.21	0.6	158.5	24.1	2.1	11.35
REX - 117		44.8	24.3	28.1	40.3	114.5	3.0	5.8	1.5	12.3	0.19	0.2	193.5	10.3	4.7	24.5
REX - 118		26.1	12.8	16.8	45.6	66.7	1.6	3.7	1.8	7.7	0.10	0.1	89.6	4.6	2.6	26.8
REX - 119		132.5	62.8	60.2	59.6	286	7.8	10.9	1.1	34.8	0.19	0.3	379	21.2	18.4	13.05
REX - 120		53.6	27.3	23.0	34.3	134.0	3.3	4.7	1.0	14.7	0.16	0.1	190.5	9.8	6.1	10.55



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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
REX - 081		4.81	5.5	0.6	741	218	7	2	2	4	12.2	99.8	487	<0.1	53
REX - 082		8.75	6.6	1.2	740	249	14	4	3	8	12.2	99.6	486	<0.1	97
REX - 083		6.12	3.2	0.4	548	376	22	6	5	12	8.6	73.5	446	<0.1	36
REX - 084		9.28	4.5	0.5	330	312	20	5	5	11	5.8	46.3	386	<0.1	34
REX - 085		9.86	7.9	1.6	355	219	23	6	5	12	7.8	58.7	364	<0.1	50
REX - 086		14.25	7.2	1.8	400	243	41	10	9	21	9.8	66.5	319	<0.1	81
REX - 087		7.05	9.2	4.4	464	130	26	7	6	14	15.2	72.9	526	<0.1	198
REX - 088		4.76	5.4	4.8	424	66	63	15	14	33	9.6	71.3	264	<0.1	72
REX - 089		7.06	6.3	2.1	515	72	40	10	9	21	7.5	86.2	333	<0.1	48
REX - 090		2.91	5.1	3.2	219	52	124	30	28	65	5.9	43.5	283	<0.1	63
REX - 091		8.54	6.2	7.0	382	66	139	33	31	73	12.1	72.6	422	<0.1	200
REX - 092		9.28	4.0	3.9	416	227	144	35	32	75	8.6	77.6	436	<0.1	75
REX - 093		10.75	4.3	1.7	322	175	38	10	8	18	7.1	54.1	324	<0.1	56
REX - 094		11.70	3.4	1.2	479	295	29	8	7	14	7.6	84.1	383	<0.1	43
REX - 095		7.38	2.5	0.6	528	288	23	6	6	11	5.7	82.1	401	<0.1	32
REX - 096		10.75	2.4	0.3	690	263	28	7	6	14	7.7	106.5	470	<0.1	44
REX - 097		7.65	3.9	0.9	1220	184	17	5	4	8	13.3	191.5	586	<0.1	135
REX - 098		15.90	3.7	0.8	851	175	22	6	5	10	7.7	138.0	476	<0.1	67
REX - 099		11.60	5.1	4.6	2070	163	48	12	10	24	23.8	366	505	<0.1	456
REX - 100		8.62	5.2	2.4	955	239	31	8	7	15	11.1	174.0	454	<0.1	98
REX - 101		6.18	2.8	1.7	521	108	69	17	15	35	6.1	99.0	263	<0.1	45
REX - 102		5.93	4.7	2.0	444	99	61	15	14	32	6.2	78.9	276	<0.1	37
REX - 103		4.91	2.4	2.3	303	83	120	28	26	64	4.2	59.0	236	<0.1	36
REX - 104		10.35	5.0	5.5	759	97	166	40	37	88	13.0	139.5	401	<0.1	307
REX - 105		4.01	4.3	3.6	248	57	99	23	22	52	7.4	49.1	274	<0.1	88
REX - 106		5.76	5.0	12.0	336	85	399	96	87	210	12.0	71.8	247	<0.1	155
REX - 107		3.41	2.2	3.0	323	138	79	19	18	41	5.5	58.6	218	<0.1	43
REX - 108		9.86	2.2	3.4	263	137	119	28	26	63	4.2	53.0	350	<0.1	42
REX - 109		7.37	4.0	6.6	328	97	127	30	28	68	12.2	68.6	434	<0.1	164
REX - 110		5.38	3.3	5.9	478	97	139	34	29	74	13.6	97.3	564	<0.1	187
REX - 111		4.92	3.9	5.9	1150	91	79	18	16	43	15.8	233	619	<0.1	318
REX - 112		8.03	4.5	1.4	720	294	22	5	5	11	6.7	134.5	314	<0.1	73
REX - 113		6.12	4.0	2.6	600	140	52	12	11	27	8.8	115.5	379	<0.1	87
REX - 114		6.16	7.5	12.1	1190	183	131	31	26	72	25.0	238	770	<0.1	454
REX - 115		8.97	2.4	1.7	496	163	63	15	13	34	6.5	96.7	299	<0.1	138
REX - 116		5.35	2.8	5.1	220	106	141	34	30	75	13.7	49.6	376	<0.1	141
REX - 117		8.53	3.3	2.9	413	174	59	15	13	30	7.0	81.2	313	<0.1	118
REX - 118		5.41	2.5	1.8	210	143	31	8	7	15	4.6	37.7	242	<0.1	32
REX - 119		6.49	6.0	8.6	1045	79	145	36	31	76	17.0	194.5	309	<0.1	260
REX - 120		7.36	4.1	2.9	492	56	63	16	14	33	7.0	88.4	249	<0.1	88



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Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218 www.alschemex.com

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CERTIFICATE OF ANALYSIS PH10035872

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
REX - 081		75	248	0.3	638	1	56.0	<1	34.9	148	1.6	16.9	144.0	2	964
REX - 082		72	252	0.7	493	1	58.0	1	35.9	358	2.2	19.4	151.5	2	946
REX - 083		59	178.0	<0.2	705	1	39.2	<1	20.2	102	1.1	13.7	47.7	1	703
REX - 084		32	94.9	0.3	551	<1	19.3	<1	17.75	189	1.5	6.0	35.6	1	344
REX - 085		32	90.1	1.1	321	<1	18.8	<1	37.7	379	2.7	5.9	55.0	1	309
REX - 086		44	105.0	1.7	270	<1	21.7	<1	75.7	454	1.9	7.5	63.1	1	340
REX - 087		57	143.5	2.9	220	1	34.7	1	114.5	1410	3.1	13.3	144.5	2	589
REX - 088		43	102.5	3.2	366	1	21.4	<1	94.2	1020	1.8	6.4	73.4	2	350
REX - 089		30	138.0	1.6	360	1	30.5	<1	50.2	1050	1.3	11.9	81.1	2	723
REX - 090		10	49.9	2.5	336	<1	9.6	<1	72.8	1370	1.3	3.0	26.1	1	188.0
REX - 091		19	95.0	3.8	209	1	19.7	<1	168.0	3320	1.4	7.7	46.2	2	408
REX - 092		30	105.0	2.8	630	1	21.9	<1	53.0	1560	2.0	9.1	44.7	2	488
REX - 093		28	99.1	1.3	495	1	24.8	<1	57.9	946	2.0	9.4	73.0	1	517
REX - 094		29	130.0	1.0	718	1	28.1	<1	40.8	513	2.2	10.4	58.0	1	571
REX - 095		28	155.0	0.5	629	<1	28.3	<1	22.0	347	1.6	9.4	47.9	1	515
REX - 096		41	210	0.2	743	1	43.0	<1	22.6	238	1.0	15.1	45.5	2	886
REX - 097		89	386	0.6	392	1	76.8	<1	39.1	556	1.6	28.7	98.4	3	1555
REX - 098		49	242	0.6	758	1	43.6	1	34.3	673	2.2	11.5	48.7	1	768
REX - 099		102	562	3.9	249	2	111.5	1	193.0	2520	3.1	46.7	171.5	6	2220
REX - 100		51	244	2.2	427	1	42.7	1	83.0	1120	3.3	15.4	97.0	2	787
REX - 101		24	115.0	1.6	476	<1	19.3	<1	66.8	611	1.2	6.1	46.6	1	346
REX - 102		18	104.5	1.4	521	<1	17.5	<1	43.5	735	1.1	5.5	38.3	1	330
REX - 103		14	67.7	1.4	463	<1	11.3	<1	42.4	919	0.7	3.0	23.2	1	206
REX - 104		41	193.5	3.7	190	1	37.6	<1	264	2470	1.2	15.1	73.5	2	740
REX - 105		15	55.7	2.9	260	<1	11.7	<1	119.5	1660	1.1	4.0	25.0	1	248
REX - 106		15	75.7	7.7	338	1	14.2	<1	213	5140	1.5	4.5	22.0	3	273
REX - 107		14	74.4	1.8	628	<1	13.2	<1	46.7	1160	0.6	4.0	33.7	1	263
REX - 108		12	60.8	1.8	492	<1	11.0	<1	45.7	1480	0.9	3.3	35.9	1	210
REX - 109		26	70.7	6.2	359	1	12.7	1	225	2590	1.9	4.2	52.4	2	248
REX - 110		24	111.0	8.5	202	1	19.5	1	220	2080	2.5	6.1	29.2	2	357
REX - 111		49	252	6.4	141	1	43.1	1	468	1720	2.4	16.4	38.0	3	925
REX - 112		25	168.5	1.2	254	1	28.8	<1	151.5	430	1.1	11.1	27.6	2	612
REX - 113		35	136.0	2.7	274	1	26.9	<1	219	789	1.2	9.4	24.7	2	618
REX - 114		57	290	12.3	155	2	56.6	1	605	3350	3.4	23.0	59.1	7	1255
REX - 115		23	119.5	2.2	230	<1	20.2	<1	171.0	610	1.1	6.2	27.6	1	344
REX - 116		9	46.0	7.8	373	<1	7.9	<1	178.5	1660	1.7	2.7	39.1	2	151.0
REX - 117		18	103.0	2.4	538	<1	19.1	<1	152.5	1170	1.2	6.3	111.0	1	366
REX - 118		18	50.4	1.6	667	<1	11.1	<1	48.2	620	0.6	3.5	29.3	1	262
REX - 119		41	265	5.8	327	1	49.4	<1	262	3070	2.0	21.6	70.6	3	1015
REX - 120		29	114.5	2.1	409	1	21.9	<1	128.0	1160	1.2	7.9	50.7	1	471



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Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218 www.alschemex.com

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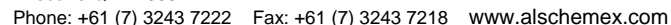
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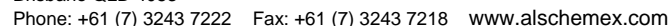
CERTIFICATE OF ANALYSIS PH10035872

Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	pH-MS23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23	ME-ICP23
		Zn	Zr	Final pH	Al	Ba	Cu	Ni	P	S	Si	Sr
		ppb	ppb	Unity	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		10	0.1	0.1	1	0.05	0.05	0.05	0.1	0.1	0.5	0.05
REX - 081		80	25.3	8.3	52	1.19	9.11	0.22	0.5	8.2	8.5	0.63
REX - 082		140	31.9	8.3	52	1.03	6.25	0.23	0.6	8.9	5.4	0.49
REX - 083		290	17.3	8.3	52	1.92	3.67	0.37	0.5	4.4	9.7	0.75
REX - 084		230	17.3	8.3	50	1.65	7.75	0.27	0.4	4.0	2.8	0.59
REX - 085		160	43.8	8.3	94	1.25	20.8	0.15	1.2	9.0	16.1	0.33
REX - 086		310	59.9	8.3	102	0.78	15.30	0.22	1.5	8.7	24.2	0.27
REX - 087		140	82.6	8.3	83	0.96	26.5	0.12	1.4	10.2	27.1	0.21
REX - 088		150	62.5	8.3	67	1.31	4.33	0.05	0.7	6.4	5.6	0.34
REX - 089		110	28.7	8.1	93	0.92	6.37	0.08	0.7	6.9	16.4	0.33
REX - 090		180	51.2	8.1	142	0.87	1.71	0.06	1.9	5.9	41.3	0.30
REX - 091		180	102.0	8.1	91	0.59	6.27	0.05	1.0	5.8	14.1	0.15
REX - 092		290	54.8	8.0	142	2.81	6.14	0.24	1.3	6.4	46.5	0.68
REX - 093		190	46.3	8.1	103	1.29	11.90	0.20	1.4	6.9	31.0	0.47
REX - 094		200	39.8	8.1	77	1.56	13.50	0.31	1.0	7.0	19.5	0.75
REX - 095		160	23.8	8.1	74	1.24	8.05	0.32	0.8	6.1	16.2	0.59
REX - 096		200	16.2	8.1	60	1.57	2.41	0.27	0.6	5.7	10.3	0.72
REX - 097		140	27.3	8.1	71	1.43	3.86	0.20	0.7	10.3	9.4	0.31
REX - 098		100	26.3	8.1	61	2.07	3.16	0.18	0.7	5.5	8.0	0.75
REX - 099		170	102.0	8.0	157	1.60	10.70	0.19	1.9	16.8	69.6	0.18
REX - 100		120	67.7	8.1	108	1.48	12.65	0.27	1.6	10.8	42.5	0.38
REX - 101		180	39.2	8.1	101	1.14	9.14	0.12	1.3	6.5	17.4	0.49
REX - 102		230	44.6	8.1	112	1.16	6.18	0.11	1.7	8.1	19.2	0.50
REX - 103		170	35.1	8.1	125	1.02	2.72	0.12	1.2	6.2	23.3	0.52
REX - 104		330	94.8	8.1	134	0.61	10.55	0.10	1.6	10.3	42.3	0.16
REX - 105		210	67.6	8.1	156	0.79	2.43	0.06	2.1	7.3	56.6	0.24
REX - 106		580	122.5	8.0	142	0.64	1.52	0.07	1.0	4.8	13.8	0.32
REX - 107		160	40.3	8.1	94	0.97	3.23	0.15	0.7	5.5	15.0	0.62
REX - 108		240	37.5	8.0	133	1.10	1.29	0.14	1.3	8.2	31.2	0.53
REX - 109		280	123.0	8.1	179	0.92	4.15	0.10	2.1	7.7	90.1	0.32
REX - 110		240	138.0	8.1	241	0.85	5.02	0.09	3.3	7.4	127.5	0.17
REX - 111		250	124.5	8.1	135	0.78	1.17	0.09	1.5	5.0	66.8	0.10
REX - 112		160	43.6	8.1	91	0.40	0.59	0.34	2.2	6.5	21.3	0.24
REX - 113		170	64.1	8.1	111	0.40	0.86	0.16	1.1	5.6	29.5	0.25
REX - 114		310	218	8.1	127	0.66	5.30	0.13	1.7	6.6	45.7	0.07
REX - 115		140	55.4	8.1	123	0.64	2.83	0.16	1.5	5.5	27.3	0.23
REX - 116		260	139.0	8.1	185	0.81	2.85	0.10	2.5	6.1	73.3	0.31
REX - 117		270	62.9	8.1	121	0.84	4.48	0.20	1.0	5.6	26.7	0.53
REX - 118		250	38.2	8.1	105	1.34	2.73	0.16	1.3	4.7	22.8	0.69
REX - 119		160	120.5	8.1	97	0.77	3.96	0.08	1.0	5.2	22.3	0.26
REX - 120		130	46.9	8.1	93	0.74	3.33	0.05	0.8	5.0	13.0	0.39



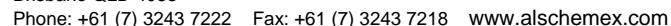
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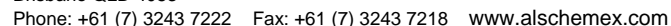
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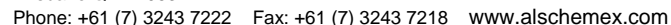
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