



Australian Laboratory Services Pty. Ltd.  
32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
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## CERTIFICATE PH10173275

Project: CALVERT

P.O. No.: REDEX - 12

This report is for 185 Soil samples submitted to our lab in Perth, WA, Australia on 23-NOV-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
pH-MS23	MS23 Leach pH
ME-MS23	IONIC Leach - Complete PKG. ICP-MS

To: REDBANK COPPER LTD  
ATTN: RUSSELL BIRRELL  
PO BOX 8116  
SUBIACO EAST WA 6008

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



Australian Laboratory Services Pty. Ltd.  
 32 Shand Street  
 Stafford  
 Brisbane QLD 4053  
 Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
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**CERTIFICATE OF ANALYSIS PH10173275**

Sample Description	Method Analyte Units LOR	pH-MS23 Final pH Unity 0.1	ME-MS23 Ag ppb 0.1	ME-MS23 As ppb 2	ME-MS23 Au ppb 0.02	ME-MS23 Ba ppb 10	ME-MS23 Be ppb 0.2	ME-MS23 Bi ppb 3	ME-MS23 Br ppm 0.05	ME-MS23 Ca ppm 0.2	ME-MS23 Cd ppb 1	ME-MS23 Ce ppb 0.1	ME-MS23 Co ppb 0.3	ME-MS23 Cr ppb 1	ME-MS23 Cs ppb 0.1	ME-MS23 Cu ppb 1
REX1436		8.2	1.7	6	0.02	290	2.3	<3	0.19	102.0	1	259	49.1	50	6.7	984
REX1437		6.5	1.1	13	0.03	290	2.9	<3	0.10	96.2	2	232	251	53	4.0	805
REX1438		8.1	1.3	5	0.03	250	1.4	<3	0.12	92.6	1	168.5	60.1	49	7.3	826
REX1439		7.9	1.7	8	0.04	580	3.3	<3	0.22	86.8	2	190.5	81.9	67	4.5	1140
REX1440		8.5	1.4	6	0.04	380	2.5	<3	0.19	94.1	1	277	27.8	81	2.8	870
REX1441		8.3	2.0	12	0.07	240	2.9	<3	0.12	12.7	1	250	11.5	98	17.1	715
REX1442		7.9	1.4	<2	0.04	250	3.1	<3	0.26	36.3	1	184.5	22.3	65	13.0	829
REX1443		6.8	1.3	4	0.03	300	3.7	<3	0.12	52.7	2	217	72.0	49	12.2	713
REX1444		7.1	1.4	2	0.03	370	3.5	<3	0.09	103.5	2	137.5	80.4	36	6.1	1370
REX1445		8.3	1.8	<2	0.07	1760	<0.2	<3	0.14	185.5	<1	58.8	250	<1	2.8	930
REX1446		8.3	1.1	<2	0.04	2120	0.3	<3	0.13	194.5	1	107.0	717	1	3.2	982
REX1447		8.3	1.2	<2	0.05	1860	0.2	<3	0.13	182.0	1	111.0	467	<1	3.7	1220
REX1448		8.3	1.3	2	0.05	1870	0.9	<3	0.15	151.5	1	380	505	3	5.1	1640
REX1449		8.3	1.9	<2	0.06	1850	0.6	<3	0.12	147.0	1	249	917	1	5.4	1830
REX1450		8.3	2.6	3	0.25	1520	1.7	<3	0.16	93.2	1	1085	380	4	5.3	3240
REX1451		8.3	2.6	8	0.05	1970	0.9	<3	0.16	92.3	1	1020	343	3	4.5	3000
REX1452		8.3	1.2	7	0.06	1620	<0.2	<3	0.10	131.0	1	240	616	2	4.0	2400
REX1453		8.3	1.7	2	0.04	1290	0.3	<3	0.09	88.1	1	404	262	2	3.7	2220
REX1454		8.3	1.2	3	0.13	1210	1.0	<3	0.14	45.5	1	602	161.0	6	5.0	2760
REX1455		8.3	1.2	12	0.05	760	0.3	<3	0.12	144.5	2	414	394	6	6.8	2900
REX1456		8.3	1.4	11	0.08	540	0.9	<3	0.11	68.8	1	1395	211	10	7.6	2340
REX1457		8.3	1.1	7	0.13	400	0.8	<3	0.12	54.5	1	768	97.0	13	6.4	1500
REX1458		8.3	0.8	7	0.02	1560	0.2	<3	0.12	186.0	2	250	767	5	5.4	1540
REX1459		7.9	1.1	7	0.05	1280	3.0	<3	0.19	123.0	2	473	359	12	5.3	2020
REX1460		7.7	1.2	19	0.19	2100	0.9	<3	0.22	32.8	1	1120	200.0	6	8.2	3470
REX1461		7.7	3.1	8	0.05	2290	0.9	<3	0.15	54.3	3	1015	281	2	3.3	3910
REX1462		8.3	1.5	3	0.07	1770	0.4	<3	0.10	117.0	1	492	319	1	4.3	2330
REX1463		8.3	1.2	2	0.04	2720	0.2	<3	0.10	149.0	<1	145.5	482	1	5.2	798
REX1464		8.3	1.2	5	0.06	2960	<0.2	<3	0.13	129.5	<1	195.5	256	1	4.3	900
REX1465		8.3	1.1	7	0.05	2070	<0.2	<3	0.16	128.0	1	192.5	434	1	2.8	802
REX1466		8.3	1.0	3	0.05	3460	0.4	<3	0.19	198.5	1	130.0	219	<1	2.5	697
REX1467		8.3	0.9	3	0.04	1920	<0.2	<3	0.17	155.0	<1	126.5	252	<1	1.9	403
REX1468		8.3	0.6	4	0.03	2710	<0.2	<3	0.11	220	2	84.7	278	1	1.6	685
REX1469		8.3	2.2	9	0.07	2930	<0.2	<3	0.15	216	1	41.3	321	<1	4.1	813
REX1470		8.3	1.3	12	0.06	2260	<0.2	<3	0.18	205	1	162.0	657	1	3.7	957
REX1471		8.3	1.3	7	<0.02	2010	0.3	<3	0.16	117.5	1	396	269	2	3.6	1430
REX1472		8.3	1.1	4	0.06	1790	0.3	<3	0.09	103.0	<1	388	385	1	4.1	1390
REX1473		8.3	1.4	6	0.08	1450	0.6	<3	0.15	90.9	1	454	296	3	5.8	1900
REX1474		8.3	1.1	6	0.08	910	0.5	<3	0.07	81.7	<1	800	99.6	2	8.9	1530
REX1475		7.5	1.2	8	0.03	2830	1.1	<3	0.18	162.0	5	396	811	4	3.6	1620



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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
		Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	In	La	Li
		ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
		0.1	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
REX1436		28.6	13.4	11.9	18.3	15.9	44.3	0.9	4.2	0.5	6.8	0.16	0.1	85.3	2.3
REX1437		24.2	11.8	8.6	80.3	19.1	33.7	0.8	5.5	0.3	5.8	0.10	0.3	94.4	2.2
REX1438		14.2	6.8	5.7	20.2	18.1	21.7	0.7	4.8	0.4	3.3	0.15	0.1	69.5	3.9
REX1439		20.0	10.1	7.6	59.0	31.9	28.2	0.9	5.4	0.6	4.9	0.18	0.3	83.6	3.3
REX1440		17.2	10.2	6.7	27.5	19.4	35.7	0.9	3.5	0.4	4.0	0.13	0.1	98.6	<0.2
REX1441		25.6	12.4	9.3	36.8	37.2	34.2	1.4	6.8	0.4	6.1	0.28	0.5	91.5	7.7
REX1442		17.3	10.4	5.7	46.4	25.7	29.7	0.9	3.4	0.5	4.2	0.28	0.3	66.7	1.3
REX1443		26.7	13.8	9.7	52.9	33.2	35.2	1.0	5.9	0.3	6.6	0.11	0.4	87.3	4.5
REX1444		19.9	9.6	8.2	29.9	19.0	29.3	0.6	3.5	0.3	4.8	0.09	0.2	56.1	2.6
REX1445		45.4	21.3	19.9	4.5	45.0	84.4	1.0	0.6	0.2	11.3	0.23	<0.1	49.5	2.8
REX1446		49.4	25.6	21.5	6.2	57.6	81.4	1.0	0.8	0.3	12.8	0.13	<0.1	69.7	2.1
REX1447		58.9	27.8	28.9	6.0	54.1	110.5	1.4	0.9	0.2	14.6	0.16	<0.1	98.6	2.2
REX1448		118.0	58.0	52.9	7.8	57.9	196.0	2.8	1.8	0.3	29.6	0.17	<0.1	183.5	2.7
REX1449		101.0	49.2	48.5	5.5	54.3	177.0	2.4	1.6	0.3	25.4	0.21	<0.1	198.0	1.9
REX1450		130.5	65.6	59.9	9.1	48.9	215	3.5	2.0	0.6	32.3	0.34	<0.1	285	3.3
REX1451		103.0	54.7	50.7	7.8	58.1	184.5	4.9	1.7	0.9	21.8	0.32	<0.1	309	2.4
REX1452		24.8	11.8	15.7	4.6	49.3	55.3	1.6	<0.5	0.7	4.9	0.28	<0.1	91.4	1.1
REX1453		68.6	32.8	41.0	4.1	38.1	153.5	4.6	1.1	1.0	13.3	0.25	<0.1	314	0.9
REX1454		140.5	67.7	69.8	10.7	37.5	259	7.0	2.2	0.9	27.8	0.59	<0.1	377	4.2
REX1455		39.1	19.6	19.2	5.4	22.9	80.5	2.3	1.3	0.6	8.0	0.27	<0.1	218	0.4
REX1456		87.6	43.8	51.3	9.3	18.0	204	6.8	1.6	0.9	17.1	0.46	<0.1	535	1.7
REX1457		52.0	26.6	25.4	8.5	14.2	102.0	3.1	1.4	1.0	10.5	0.36	<0.1	295	1.3
REX1458		18.4	10.1	10.3	6.2	46.6	41.6	1.4	0.8	0.4	3.9	0.11	<0.1	140.0	0.4
REX1459		52.8	29.6	20.5	13.2	39.5	81.8	2.3	1.8	0.5	11.3	0.22	0.1	191.0	1.4
REX1460		260	134.0	143.5	21.8	67.5	550	15.9	2.7	0.3	52.8	0.21	0.1	794	2.9
REX1461		308	176.0	131.0	9.0	71.1	480	10.4	3.2	0.6	68.0	0.20	<0.1	368	3.5
REX1462		57.6	29.4	32.5	5.1	52.1	117.5	3.2	0.9	0.5	11.9	0.22	<0.1	174.0	1.7
REX1463		36.9	18.6	21.6	3.3	81.8	73.2	1.9	0.6	0.3	7.7	0.14	<0.1	95.9	1.0
REX1464		40.5	20.2	25.4	4.1	87.5	85.3	2.3	0.6	0.5	8.3	0.19	<0.1	109.0	1.7
REX1465		45.7	23.3	22.3	6.5	62.1	85.4	2.2	0.7	0.2	9.7	0.14	<0.1	103.0	2.3
REX1466		48.3	24.5	24.7	6.0	101.5	92.9	2.1	0.7	0.3	10.2	0.18	<0.1	93.0	3.1
REX1467		41.6	20.6	20.4	4.0	56.5	86.7	2.3	0.6	0.4	8.6	0.26	<0.1	84.7	2.8
REX1468		47.3	23.1	21.4	6.1	81.1	87.2	1.8	0.7	0.3	10.1	0.11	<0.1	75.3	3.0
REX1469		32.8	15.9	18.0	3.5	88.9	66.9	1.5	0.5	0.1	6.8	0.24	<0.1	58.0	0.6
REX1470		45.9	23.6	21.5	6.7	69.8	84.0	2.0	0.9	0.2	9.7	0.16	<0.1	98.1	2.1
REX1471		63.6	33.4	31.6	6.0	60.7	117.5	3.3	1.2	0.6	13.4	0.19	<0.1	164.5	2.4
REX1472		47.3	24.0	26.7	4.9	55.0	95.6	2.6	0.9	0.5	9.9	0.25	<0.1	194.0	1.7
REX1473		78.3	39.6	42.1	7.5	43.7	157.0	4.4	1.3	0.6	16.0	0.31	<0.1	322	2.5
REX1474		73.8	38.1	38.6	8.0	30.0	142.5	4.3	1.2	0.8	15.1	0.41	<0.1	288	2.5
REX1475		112.0	69.3	39.4	10.0	86.2	151.0	3.1	1.4	0.4	26.0	0.15	<0.1	179.5	2.3

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		Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pb 206	Pb 207	Pb 208	Pd	Pr	Rb	Re
		ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
		0.01	0.01	0.5	0.1	0.1	1	1	1	1	1	0.1	0.1	0.1	0.1
REX1436		15.80	4.52	3.1	0.8	193.5	71	83	21	17	43	3.7	44.6	266	<0.1
REX1437		41.3	23.2	2.2	1.1	149.0	149	208	52	43	108	4.6	37.3	208	<0.1
REX1438		12.60	6.41	4.0	1.4	106.5	55	82	21	17	43	4.1	26.8	231	<0.1
REX1439		14.95	9.93	4.3	1.7	132.0	108	172	43	36	90	4.4	31.8	234	<0.1
REX1440		11.05	3.82	2.4	0.6	179.0	84	59	15	11	31	3.9	42.0	207	<0.1
REX1441		2.72	0.96	5.1	3.7	163.5	32	62	15	13	32	5.7	41.0	240	<0.1
REX1442		4.78	2.03	3.7	1.2	128.0	60	108	27	21	57	3.7	28.5	210	<0.1
REX1443		13.05	5.99	2.6	1.8	164.5	135	202	51	42	106	4.4	39.0	441	<0.1
REX1444		19.25	8.71	2.8	0.8	118.5	115	151	38	31	79	2.8	26.0	225	<0.1
REX1445		158.0	2.15	1.2	0.1	258	166	21	5	4	11	1.3	40.7	322	<0.1
REX1446		105.5	11.75	2.0	0.1	257	274	17	4	3	9	1.6	44.6	458	<0.1
REX1447		73.6	6.51	2.1	0.1	368	219	11	3	2	6	1.8	64.2	515	<0.1
REX1448		58.5	9.31	2.5	0.2	617	260	20	5	4	11	3.7	115.5	608	<0.1
REX1449		34.7	11.70	3.7	0.1	575	266	25	6	5	13	3.1	110.0	523	<0.1
REX1450		39.1	7.63	3.6	0.3	782	183	41	10	8	21	3.9	164.0	435	<0.1
REX1451		37.8	5.19	3.1	0.2	822	178	37	9	8	19	4.5	170.0	413	<0.1
REX1452		32.9	6.98	4.3	0.1	260	183	36	9	7	19	1.6	48.4	415	<0.1
REX1453		30.3	5.65	4.6	0.1	776	135	24	6	5	12	2.9	161.5	322	<0.1
REX1454		47.6	5.44	3.1	0.5	1155	187	40	10	8	21	5.2	238	359	<0.1
REX1455		21.7	23.6	9.4	0.2	383	128	19	5	4	10	3.2	87.4	369	<0.1
REX1456		9.59	11.50	13.9	0.4	1110	60	37	9	7	19	4.8	256	382	<0.1
REX1457		6.71	7.99	10.2	0.4	538	41	70	18	14	37	4.2	125.5	293	<0.1
REX1458		14.80	24.8	5.5	0.2	215	131	21	5	4	11	2.4	49.4	310	<0.1
REX1459		16.90	25.9	3.1	0.4	360	259	52	13	11	27	4.8	84.0	353	<0.1
REX1460		92.0	6.43	1.7	0.4	2330	233	154	39	32	81	8.0	455	466	<0.1
REX1461		127.5	4.84	1.7	0.2	1600	790	88	22	18	46	9.7	282	395	<0.1
REX1462		37.9	2.80	2.5	0.1	519	182	30	7	6	16	2.5	100.5	427	<0.1
REX1463		63.1	4.65	1.9	0.1	320	146	27	7	6	14	1.5	58.4	692	<0.1
REX1464		83.7	3.42	1.6	0.1	377	124	26	7	5	14	1.7	68.6	580	<0.1
REX1465		95.5	4.20	1.5	0.1	335	218	17	4	4	9	2.2	60.6	500	<0.1
REX1466		117.0	1.53	0.8	0.1	352	229	37	9	8	20	2.2	60.2	274	<0.1
REX1467		135.0	1.87	1.0	0.1	364	206	31	8	6	16	1.9	62.2	333	<0.1
REX1468		131.0	5.75	2.0	<0.1	272	340	16	4	3	8	2.2	44.5	459	<0.1
REX1469		74.7	2.28	2.2	<0.1	228	313	7	2	1	4	1.6	35.4	413	<0.1
REX1470		74.0	5.31	2.5	0.1	302	336	10	2	2	5	2.6	52.8	467	<0.1
REX1471		53.3	3.04	1.7	0.1	495	209	28	7	6	15	3.0	96.6	453	<0.1
REX1472		27.3	3.97	2.7	0.1	459	92	28	7	6	15	2.5	94.7	371	<0.1
REX1473		24.5	3.97	3.1	0.3	745	162	35	9	7	18	3.3	156.0	441	<0.1
REX1474		19.80	2.28	5.2	0.3	704	48	56	14	12	29	3.1	148.0	573	<0.1
REX1475		56.1	21.3	1.7	0.2	500	635	66	17	14	35	4.2	98.1	343	<0.1



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Sample Description	Method Analyte Units LOR	ME-MS23 Sc ppb 1	ME-MS23 Se ppb 2	ME-MS23 Sm ppb 0.1	ME-MS23 Sn ppb 0.2	ME-MS23 Sr ppb 1	ME-MS23 Ta ppb 1	ME-MS23 Tb ppb 0.1	ME-MS23 Te ppb 1	ME-MS23 Th ppb 0.02	ME-MS23 Ti ppb 5	ME-MS23 Tl ppb 0.5	ME-MS23 Tm ppb 0.1	ME-MS23 U ppb 0.1	ME-MS23 W ppb 1	ME-MS23 Y ppb 0.1
REX1436		45	19	45.8	0.4	334	<1	6.9	<1	92.3	434	<0.5	1.5	16.4	<1	96.1
REX1437		49	12	33.5	0.6	443	<1	5.6	<1	98.4	534	<0.5	1.3	8.7	<1	80.7
REX1438		40	12	22.9	0.9	255	<1	3.5	<1	97.4	813	<0.5	0.8	10.5	<1	54.8
REX1439		53	18	30.7	1.5	328	<1	4.6	<1	86.0	972	<0.5	1.2	13.5	1	70.3
REX1440		45	19	33.6	0.5	386	<1	4.9	2	94.8	411	<0.5	0.8	11.2	<1	73.4
REX1441		91	19	36.2	2.0	78	<1	5.7	<1	135.5	2040	0.5	1.5	22.8	1	84.5
REX1442		59	25	27.0	0.8	133	<1	4.6	<1	81.9	905	<0.5	0.9	15.5	<1	73.9
REX1443		66	13	38.4	1.1	199	<1	5.9	<1	104.0	1010	<0.5	1.6	11.4	1	93.8
REX1444		35	12	30.9	0.5	290	<1	4.7	<1	78.5	464	<0.5	1.1	9.9	<1	68.6
REX1445		26	9	80.0	<0.2	607	<1	11.3	<1	3.89	82	<0.5	2.1	6.2	<1	175.0
REX1446		26	11	73.7	<0.2	875	<1	11.6	<1	9.46	118	0.5	2.7	10.1	<1	198.0
REX1447		33	12	102.0	<0.2	854	<1	14.7	<1	11.55	140	<0.5	2.8	12.8	<1	235
REX1448		54	25	186.0	<0.2	724	<1	28.0	<1	24.0	193	0.8	6.0	23.0	<1	460
REX1449		65	17	169.0	<0.2	685	<1	24.5	<1	28.2	164	1.1	5.0	28.4	<1	372
REX1450		94	33	214	<0.2	353	<1	30.8	<1	42.1	267	1.1	7.0	31.6	1	488
REX1451		85	41	177.0	<0.2	417	<1	26.9	1	37.0	194	1.3	5.8	29.2	1	454
REX1452		28	12	57.0	<0.2	693	<1	7.3	1	15.65	99	0.9	1.1	14.0	<1	120.5
REX1453		43	33	159.0	<0.2	526	<1	20.2	<1	33.8	125	0.9	3.0	25.6	<1	307
REX1454		97	49	264	0.3	262	<1	37.5	2	84.3	255	0.6	6.6	35.6	1	524
REX1455		17	39	76.0	<0.2	474	<1	10.7	9	55.2	131	0.6	1.9	28.6	<1	178.0
REX1456		57	53	207	0.2	191	<1	26.0	5	138.0	222	0.9	4.3	51.3	1	340
REX1457		51	37	102.0	0.3	131	<1	14.1	3	115.5	221	0.8	2.8	30.0	1	227
REX1458		10	35	40.1	<0.2	744	<1	5.3	5	26.6	97	<0.5	1.0	13.1	<1	92.1
REX1459		59	41	75.6	<0.2	272	<1	12.7	2	71.6	218	0.6	3.3	19.9	<1	242
REX1460		195	132	562	0.5	261	1	72.6	1	67.4	305	0.5	13.6	41.9	1	1075
REX1461		127	98	441	<0.2	290	1	74.4	<1	28.8	191	0.6	19.0	37.9	2	1450
REX1462		68	45	114.5	<0.2	517	<1	15.8	<1	25.4	147	0.8	2.9	21.9	<1	287
REX1463		35	30	72.4	<0.2	917	<1	10.1	1	9.45	75	0.9	1.8	10.3	<1	193.0
REX1464		40	25	84.9	<0.2	760	<1	11.3	<1	10.95	135	0.8	2.0	10.6	<1	210
REX1465		36	38	78.2	<0.2	733	<1	11.9	<1	10.35	113	<0.5	2.3	9.9	<1	250
REX1466		29	32	87.2	<0.2	772	<1	13.0	2	7.21	99	<0.5	2.4	10.7	<1	277
REX1467		32	33	84.5	<0.2	632	<1	11.5	2	7.57	54	<0.5	1.9	7.2	<1	228
REX1468		34	40	73.4	<0.2	875	<1	12.5	2	6.52	46	0.5	2.2	6.2	<1	300
REX1469		27	32	60.4	<0.2	640	<1	8.9	2	5.21	39	<0.5	1.5	8.1	<1	206
REX1470		33	45	73.3	<0.2	931	<1	11.8	8	11.95	80	0.6	2.4	14.6	<1	265
REX1471		47	46	111.5	<0.2	555	<1	16.6	4	18.60	122	0.7	3.4	16.3	<1	321
REX1472		42	44	95.9	<0.2	492	<1	13.1	2	23.2	142	0.9	2.4	17.7	<1	232
REX1473		48	51	156.0	<0.2	385	<1	21.6	8	41.1	227	0.8	3.9	28.9	<1	359
REX1474		79	41	146.0	<0.2	267	<1	20.0	<1	93.1	268	0.8	3.9	25.5	<1	330
REX1475		20	45	131.0	<0.2	688	<1	25.0	<1	14.25	171	1.0	7.7	23.2	1	489



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 32 Shand Street  
 Stafford  
 Brisbane QLD 4053  
 Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
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Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	ME-MS23
		Yb	Zn	Zr
		ppb	ppb	ppb
		0.1	10	0.1
REX1436		9.3	460	52.0
REX1437		7.9	240	62.6
REX1438		4.9	110	63.5
REX1439		7.5	140	59.9
REX1440		4.7	80	50.6
REX1441		9.7	60	81.3
REX1442		5.1	50	54.0
REX1443		10.5	110	64.7
REX1444		6.8	110	37.2
REX1445		12.9	90	3.2
REX1446		16.6	300	6.7
REX1447		17.2	60	6.5
REX1448		36.9	70	15.1
REX1449		31.6	30	13.2
REX1450		44.6	40	15.2
REX1451		32.5	30	16.8
REX1452		6.6	20	5.5
REX1453		17.6	20	11.4
REX1454		37.9	30	20.4
REX1455		11.0	90	20.9
REX1456		25.4	40	21.9
REX1457		16.6	50	23.0
REX1458		5.8	110	15.6
REX1459		18.6	110	32.6
REX1460		82.1	30	14.0
REX1461		107.0	190	13.9
REX1462		17.1	20	9.5
REX1463		10.4	40	3.8
REX1464		11.0	50	5.1
REX1465		13.2	50	7.0
REX1466		13.6	40	5.5
REX1467		11.0	100	5.2
REX1468		12.0	490	5.9
REX1469		8.6	70	4.1
REX1470		13.1	70	12.2
REX1471		19.5	40	12.5
REX1472		13.6	30	9.7
REX1473		23.2	20	13.9
REX1474		23.0	20	11.0
REX1475		42.4	360	12.6



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 32 Shand Street  
 Stafford  
 Brisbane QLD 4053  
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Sample Description	Method Analyte Units LOR	pH-MS23 Final pH Unity 0.1	ME-MS23 Ag ppb 0.1	ME-MS23 As ppb 2	ME-MS23 Au ppb 0.02	ME-MS23 Ba ppb 10	ME-MS23 Be ppb 0.2	ME-MS23 Bi ppb 3	ME-MS23 Br ppm 0.05	ME-MS23 Ca ppm 0.2	ME-MS23 Cd ppb 1	ME-MS23 Ce ppb 0.1	ME-MS23 Co ppb 0.3	ME-MS23 Cr ppb 1	ME-MS23 Cs ppb 0.1	ME-MS23 Cu ppb 1
REX1476		7.7	1.3	11	0.04	1430	0.8	<3	0.13	166.0	3	531	434	4	4.9	2940
REX1477		7.7	0.7	12	0.06	970	1.2	<3	0.08	84.7	2	1280	329	10	3.6	1320
REX1478		9.0	0.7	12	0.05	580	0.2	<3	0.17	166.5	2	215	616	7	5.2	1240
REX1479		7.7	0.8	6	0.05	620	0.8	<3	0.10	121.0	2	636	224	11	5.2	1450
REX1480		8.3	0.7	3	0.06	680	0.7	<3	0.09	113.0	1	556	213	9	4.5	1220
REX1481		8.3	0.8	2	0.04	600	0.4	<3	0.07	87.8	1	570	147.0	6	4.1	1540
REX1482		8.3	1.6	19	0.10	530	3.3	<3	0.13	64.0	1	1440	120.5	11	7.7	3580
REX1483		8.3	1.5	8	0.08	950	1.7	<3	0.17	126.0	5	724	484	15	6.0	2790
REX1484		8.3	1.2	<2	0.04	660	0.4	<3	0.08	89.2	2	425	192.5	6	5.6	1960
REX1485		8.3	1.5	9	0.05	530	0.9	<3	0.07	56.9	1	834	143.5	7	6.5	2090
REX1486		8.3	1.2	2	0.09	740	0.2	<3	0.07	73.8	<1	401	130.5	1	6.8	961
REX1487		8.3	1.3	6	0.12	1730	0.4	<3	0.13	98.8	1	571	267	2	6.1	1430
REX1488		8.3	1.1	9	0.06	2420	0.5	<3	0.16	126.5	1	484	235	4	4.7	1870
REX1489		8.3	1.8	5	0.06	3270	<0.2	<3	0.10	218	1	106.5	312	1	2.3	989
REX1490		8.3	0.8	5	0.02	2550	<0.2	<3	0.16	207	1	108.0	489	1	2.6	855
REX1491		8.3	1.5	2	0.05	2020	0.2	<3	0.12	175.5	1	183.5	633	1	2.5	1520
REX1492		8.3	1.0	5	0.06	2310	0.2	<3	0.13	165.0	1	168.5	459	1	4.1	996
REX1493		8.3	1.2	5	0.09	1220	0.5	<3	0.09	94.8	1	492	247	2	6.3	2160
REX1494		8.3	1.7	5	0.15	1410	0.3	<3	0.13	121.0	2	423	565	3	5.4	2930
REX1495		8.5	0.9	5	0.03	540	0.7	<3	0.15	168.5	3	232	571	6	4.5	3070
REX1496		8.5	10.4	30	0.06	430	4.4	<3	0.17	63.3	41	840	1235	24	7.2	12300
REX1497		8.5	29.0	27	0.13	1590	3.1	<3	0.21	41.0	154	1165	824	15	11.2	33200
REX1498		8.5	10.9	14	0.09	2570	4.1	<3	0.17	38.8	463	923	906	21	10.3	16350
REX1499		8.5	5.1	3	0.11	2590	0.5	<3	0.20	136.0	5	200	849	1	7.6	5960
REX1500		8.5	1.1	3	0.05	600	0.9	<3	0.10	76.8	1	459	186.5	3	5.9	2380
REX1501		8.5	1.0	8	0.06	590	0.9	<3	0.09	107.0	2	633	248	11	4.6	1430
REX1502		8.5	1.0	11	0.09	930	6.2	<3	0.14	22.1	1	1410	132.0	27	6.8	1470
REX1503		8.3	2.1	7	0.09	840	1.6	<3	0.19	105.0	3	639	320	12	5.8	3960
REX1504		8.3	7.8	5	0.05	2790	1.2	<3	0.21	147.5	23	639	285	3	5.9	3720
REX1505		8.3	23.8	9	0.37	5480	0.7	<3	0.11	194.0	975	419	1110	3	7.0	13900
REX1506		8.5	11.9	11	0.16	2890	1.0	<3	0.14	86.3	471	413	652	7	6.9	12900
REX1507		6.5	41.7	9	0.31	4480	1.9	<3	0.16	252	634	198.0	620	1	4.3	4350
REX1508		8.5	10.0	10	0.34	910	0.8	<3	0.15	87.2	87	268	849	7	10.7	35500
REX1509		8.1	6.1	11	0.05	750	1.9	<3	0.16	134.0	20	442	993	15	5.1	7260
REX1510		8.7	1.4	7	0.86	720	2.8	<3	0.12	44.5	1	1070	145.5	15	8.2	10600
REX1511		8.5	1.2	3	0.02	1620	0.9	<3	0.13	175.0	2	229	268	6	4.3	1960
REX1512		8.3	1.3	10	0.11	1710	0.4	<3	0.22	199.0	2	209	542	2	5.0	1500
REX1513		8.5	1.2	6	0.13	690	1.3	<3	0.18	97.0	2	433	377	8	5.9	2940
REX1514		8.3	1.5	7	0.21	710	0.9	<3	0.18	118.5	2	440	413	8	6.5	3300
REX1515		8.5	1.0	9	0.41	380	2.9	<3	0.11	21.2	1	793	195.0	10	10.3	7540



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 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
		Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	In	La	Li	Lu
		ppb 0.1	ppb 0.1	ppb 0.1	ppm 0.1	ppb 0.5	ppb 0.1	ppb 0.1	ppb 0.5	ppb 0.1	ppb 0.1	ppm 0.01	ppb 0.1	ppb 0.1	ppb 0.2	ppb 0.1
REX1476		105.0	57.8	42.6	7.1	43.9	172.5	4.5	1.7	0.3	22.9	0.15	<0.1	305	0.8	4.5
REX1477		52.0	28.1	32.3	8.6	29.6	138.0	4.9	1.7	0.4	10.5	0.13	<0.1	502	0.6	2.2
REX1478		14.1	7.3	6.1	9.1	18.6	25.5	0.7	0.8	0.6	2.9	0.14	<0.1	72.6	0.2	0.6
REX1479		36.7	18.6	19.0	8.3	20.0	77.7	2.4	1.6	0.7	7.4	0.19	<0.1	244	1.0	1.4
REX1480		31.6	16.5	16.0	6.3	20.9	66.5	2.1	1.4	0.4	6.4	0.16	<0.1	218	0.5	1.3
REX1481		42.7	21.0	23.8	5.0	18.3	98.1	3.2	1.2	0.6	8.2	0.19	<0.1	304	0.6	1.6
REX1482		148.0	76.6	67.9	15.1	20.7	267	8.0	2.6	1.1	30.3	0.59	0.1	511	5.7	6.7
REX1483		61.9	33.5	27.8	25.1	31.2	112.5	3.3	2.1	0.5	13.0	0.30	<0.1	324	3.5	2.8
REX1484		33.9	17.4	17.2	4.4	20.1	67.3	1.9	0.8	0.6	6.8	0.22	<0.1	177.0	0.4	1.4
REX1485		76.3	40.9	36.2	7.9	18.0	143.5	4.3	1.2	0.9	15.9	0.30	<0.1	372	1.9	3.6
REX1486		40.5	19.8	22.6	3.2	23.0	81.8	2.3	0.6	0.6	8.0	0.36	<0.1	165.5	0.4	1.6
REX1487		93.5	45.1	51.1	5.5	51.0	198.0	5.8	1.5	0.6	18.6	0.31	<0.1	374	1.6	3.4
REX1488		85.8	45.0	41.7	10.8	73.5	161.5	4.3	1.5	0.6	18.2	0.26	<0.1	260	2.9	3.7
REX1489		40.9	21.7	19.0	5.7	96.2	75.3	1.6	0.7	0.2	8.8	0.11	<0.1	78.9	1.1	1.8
REX1490		69.8	37.1	28.0	9.0	76.3	115.5	2.3	1.1	0.4	15.2	0.12	<0.1	102.0	1.8	3.0
REX1491		68.4	35.7	29.2	6.6	59.5	117.5	2.6	1.1	0.3	14.7	0.13	<0.1	136.5	1.2	2.7
REX1492		48.4	24.2	25.1	6.1	72.2	99.5	2.4	1.0	0.3	10.2	0.19	<0.1	146.0	1.3	1.8
REX1493		72.3	35.4	39.9	5.1	38.0	154.0	4.5	1.0	0.4	14.5	0.29	<0.1	288	1.4	2.8
REX1494		74.7	37.2	38.5	5.0	43.5	148.5	4.1	1.3	0.5	15.3	0.18	<0.1	263	1.2	2.9
REX1495		27.7	14.1	9.9	5.4	17.6	38.5	1.1	1.2	0.4	5.4	0.13	<0.1	93.9	0.3	1.2
REX1496		43.1	22.4	15.5	13.1	17.7	65.2	2.4	2.9	1.2	8.0	0.21	0.3	284	3.3	2.1
REX1497		103.0	57.7	45.8	7.7	49.5	178.0	6.7	2.0	1.3	19.9	0.69	0.1	703	3.4	5.7
REX1498		72.5	39.4	27.7	14.6	82.2	105.0	3.7	2.0	0.7	14.0	0.18	0.1	350	3.1	4.0
REX1499		92.2	36.3	56.4	4.2	83.9	208	7.0	1.2	0.3	15.2	0.22	<0.1	386	0.6	2.5
REX1500		58.2	24.9	27.3	3.6	19.8	105.0	3.5	1.0	0.6	9.9	0.29	<0.1	256	1.7	1.9
REX1501		38.1	17.9	15.8	7.0	19.7	65.2	2.1	1.5	0.6	6.9	0.10	<0.1	215	0.7	1.5
REX1502		90.7	46.1	34.1	26.5	36.4	135.5	4.6	2.7	0.4	16.7	0.26	0.3	373	6.3	4.7
REX1503		93.9	44.8	36.8	10.5	28.1	143.5	4.3	2.0	0.5	17.2	0.24	0.1	303	1.5	3.9
REX1504		212	95.9	89.7	8.3	87.0	335	9.2	3.2	0.3	38.5	0.11	<0.1	487	1.9	8.1
REX1505		56.2	26.6	26.0	13.0	192.5	93.6	2.7	1.4	0.3	10.3	0.04	<0.1	353	3.0	2.1
REX1506		64.8	31.4	28.3	7.5	93.3	105.5	3.4	2.1	0.3	11.9	0.07	<0.1	343	2.1	2.7
REX1507		41.2	22.4	17.3	3.9	156.0	57.8	1.9	0.5	0.2	8.2	0.07	0.1	214	4.3	1.9
REX1508		43.2	22.1	18.8	4.0	29.5	69.9	2.4	0.9	1.0	8.3	0.35	<0.1	238	1.7	2.0
REX1509		34.6	17.3	12.2	14.0	26.0	50.1	1.6	2.3	0.5	6.5	0.11	0.1	143.0	0.8	1.6
REX1510		68.7	31.9	26.4	15.9	27.0	107.0	3.8	1.8	0.9	12.1	0.35	0.1	353	3.9	2.9
REX1511		25.4	11.6	10.8	4.9	50.5	42.6	1.2	1.3	0.6	4.8	0.12	<0.1	125.5	<0.2	0.8
REX1512		61.5	25.2	27.8	5.8	54.4	107.0	3.0	1.2	0.3	10.7	0.17	<0.1	152.5	1.4	1.8
REX1513		42.9	21.4	16.1	6.7	22.6	63.2	1.9	1.4	0.5	8.0	0.17	<0.1	162.5	0.3	1.9
REX1514		42.7	20.2	16.8	7.1	23.0	65.5	2.2	1.3	0.6	7.8	0.17	<0.1	164.0	0.4	1.6
REX1515		52.3	25.8	19.2	15.3	16.6	73.9	2.6	1.4	0.5	9.4	0.45	0.2	216	2.9	2.5





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Sample Description	Method Analyte Units LOR	ME-MS23 Mg ppm 0.01	ME-MS23 Mn ppm 0.01	ME-MS23 Mo ppb 0.5	ME-MS23 Nb ppb 0.1	ME-MS23 Nd ppb 0.1	ME-MS23 Ni ppb 1	ME-MS23 Pb ppb 1	ME-MS23 Pb 206 ppb 1	ME-MS23 Pb 207 ppb 1	ME-MS23 Pb 208 ppb 1	ME-MS23 Pd ppb 0.1	ME-MS23 Pr ppb 0.1	ME-MS23 Rb ppb 0.1	ME-MS23 Re ppb 0.1	ME-MS23 Sb ppb 0.5
REX1476		37.0	17.50	3.6	0.2	704	594	44	11	9	23	5.2	150.5	419	<0.1	<0.5
REX1477		9.30	15.30	4.5	0.3	826	131	21	5	4	11	4.5	204	246	<0.1	<0.5
REX1478		22.4	36.6	4.7	0.2	114.5	128	28	7	6	15	2.2	27.3	340	<0.1	<0.5
REX1479		11.65	13.40	6.3	0.3	402	82	26	6	5	14	4.2	93.1	318	<0.1	<0.5
REX1480		10.95	12.30	5.3	0.2	344	73	26	6	5	14	3.5	81.0	287	<0.1	<0.5
REX1481		17.15	6.35	6.0	0.2	525	70	22	5	4	11	3.1	122.0	291	<0.1	<0.5
REX1482		13.20	9.17	10.1	0.9	1270	73	53	13	11	28	6.7	283	367	<0.1	<0.5
REX1483		17.30	12.20	8.2	0.6	520	106	58	14	12	31	5.8	119.5	366	<0.1	<0.5
REX1484		8.71	8.63	6.7	0.1	334	36	52	13	11	28	2.3	74.4	338	<0.1	<0.5
REX1485		6.72	5.60	4.5	0.4	701	43	128	32	27	67	3.2	162.0	445	<0.1	<0.5
REX1486		13.70	2.28	4.2	0.1	398	34	41	10	8	22	1.5	84.0	454	<0.1	<0.5
REX1487		48.6	3.18	2.9	0.2	922	178	18	4	4	10	3.8	188.5	445	<0.1	<0.5
REX1488		45.3	3.28	2.2	0.3	686	185	36	9	7	19	4.0	137.5	444	<0.1	<0.5
REX1489		75.5	3.30	1.8	<0.1	256	294	10	2	2	5	2.5	43.4	365	<0.1	<0.5
REX1490		84.3	5.99	2.0	0.1	359	329	18	4	4	10	3.5	61.0	406	<0.1	<0.5
REX1491		50.8	6.47	1.8	0.1	417	302	21	5	4	11	3.3	77.4	350	<0.1	<0.5
REX1492		56.6	6.06	2.0	0.1	409	253	14	4	3	7	2.8	75.6	403	<0.1	<0.5
REX1493		21.7	3.61	4.6	0.1	722	172	20	5	4	11	2.8	147.5	397	<0.1	<0.5
REX1494		31.2	7.23	4.8	0.1	657	311	30	8	6	16	3.7	132.0	506	<0.1	<0.5
REX1495		11.95	20.1	5.0	0.1	167.0	112	44	10	9	24	2.6	36.2	369	<0.1	<0.5
REX1496		8.58	11.00	11.6	0.5	358	123	34800	7870	7760	19150	6.1	93.1	324	<0.1	<0.5
REX1497		21.3	2.84	4.7	0.3	1125	190	96300	21800	21500	52800	4.0	289	517	<0.1	<0.5
REX1498		19.95	5.54	3.8	0.4	575	449	23600	5350	5260	12950	3.9	141.5	423	<0.1	<0.5
REX1499		37.8	6.58	7.1	0.1	1060	233	138	32	30	75	3.1	201	560	<0.1	<0.5
REX1500		17.70	6.77	6.9	0.2	546	60	47	11	10	26	2.4	116.5	394	<0.1	<0.5
REX1501		11.75	15.70	5.1	0.2	338	99	37	9	8	21	3.7	79.5	301	<0.1	<0.5
REX1502		13.40	6.20	2.7	1.1	732	59	226	54	47	124	6.5	178.0	332	<0.1	<0.5
REX1503		19.60	10.20	4.1	0.3	662	222	78	19	16	43	4.6	139.5	422	<0.1	<0.5
REX1504		33.9	5.02	2.8	0.2	1410	514	121	29	26	66	8.2	270	592	<0.1	<0.5
REX1505		45.9	4.70	2.7	0.2	432	585	6400	1450	1430	3510	2.3	99.4	713	<0.1	<0.5
REX1506		40.7	4.40	2.7	0.2	543	325	4700	1070	1050	2570	4.4	124.0	479	<0.1	<0.5
REX1507		148.0	8.83	1.8	<0.1	296	1660	1940	435	469	1030	1.0	72.6	658	<0.1	<0.5
REX1508		43.2	3.08	16.5	0.1	365	210	7740	1760	1730	4240	2.0	84.2	581	<0.1	<0.5
REX1509		14.60	17.80	4.4	0.2	240	337	1070	259	253	555	4.9	55.9	432	<0.1	<0.5
REX1510		5.52	6.90	9.0	0.6	565	39	70	17	15	39	4.2	134.0	381	<0.1	<0.5
REX1511		25.8	13.65	5.5	0.1	197.0	188	21	5	5	12	2.9	42.7	356	<0.1	<0.5
REX1512		38.9	8.93	3.6	0.1	440	369	27	6	6	15	3.1	79.8	439	<0.1	<0.5
REX1513		14.55	17.70	5.7	0.1	300	150	43	10	9	23	3.3	66.4	413	<0.1	<0.5
REX1514		20.6	20.2	6.1	0.2	306	178	34	8	7	19	3.2	68.4	475	<0.1	<0.5
REX1515		2.35	9.90	7.4	0.6	378	21	181	43	38	99	3.7	88.9	345	<0.1	<0.5



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Sample Description	Method Analyte Units LOR	ME-MS23 Sc ppb 1	ME-MS23 Se ppb 2	ME-MS23 Sm ppb 0.1	ME-MS23 Sn ppb 0.2	ME-MS23 Sr ppb 1	ME-MS23 Ta ppb 1	ME-MS23 Tb ppb 0.1	ME-MS23 Te ppb 1	ME-MS23 Th ppb 0.02	ME-MS23 Ti ppb 5	ME-MS23 Tl ppb 0.5	ME-MS23 Tm ppb 0.1	ME-MS23 U ppb 0.1	ME-MS23 W ppb 1	ME-MS23 Y ppb 0.1
REX1476		26	39	157.5	<0.2	657	<1	25.7	1	29.6	128	0.8	6.0	26.3	1	452
REX1477		26	51	134.5	<0.2	277	<1	16.1	<1	81.9	123	0.6	2.7	23.4	1	245
REX1478		7	33	22.8	0.3	382	<1	3.6	11	18.85	98	<0.5	0.8	11.6	<1	65.7
REX1479		25	33	74.5	<0.2	272	<1	10.1	4	81.0	175	0.5	1.9	21.5	<1	164.5
REX1480		22	20	63.7	<0.2	289	<1	8.8	<1	67.7	114	0.5	1.7	18.0	<1	145.5
REX1481		21	37	96.8	<0.2	218	<1	12.5	<1	66.6	96	0.5	2.0	22.9	<1	191.5
REX1482		180	85	266	3.9	150	<1	38.7	8	199.5	495	0.9	8.1	50.7	1	560
REX1483		84	42	102.5	0.3	350	<1	15.8	2	68.3	473	1.2	3.5	31.1	1	297
REX1484		31	24	64.9	<0.2	201	<1	9.2	1	53.9	105	0.6	1.8	20.0	<1	152.0
REX1485		77	51	137.5	0.2	125	<1	20.1	<1	81.3	231	0.8	4.4	29.4	<1	352
REX1486		38	31	81.5	<0.2	254	<1	11.3	<1	24.5	85	0.7	1.9	15.0	<1	174.0
REX1487		62	60	194.5	<0.2	483	<1	26.4	<1	50.1	115	0.6	4.3	27.0	<1	394
REX1488		43	62	150.5	<0.2	465	<1	22.8	<1	22.4	202	0.6	4.6	17.4	<1	392
REX1489		34	42	64.1	<0.2	673	<1	10.5	1	9.39	52	<0.5	2.1	9.8	<1	246
REX1490		28	56	94.2	<0.2	814	<1	17.0	<1	9.32	100	<0.5	3.7	8.6	<1	385
REX1491		20	32	101.5	<0.2	481	<1	17.3	<1	13.20	82	<0.5	3.6	12.7	<1	375
REX1492		30	36	91.5	<0.2	528	<1	13.5	<1	15.50	96	0.6	2.3	12.3	<1	270
REX1493		61	39	151.0	<0.2	318	<1	20.4	<1	51.2	134	1.0	3.4	26.0	<1	344
REX1494		46	55	142.5	<0.2	485	<1	20.6	<1	37.2	113	0.8	3.6	26.8	<1	368
REX1495		15	25	39.2	<0.2	456	<1	5.9	<1	23.6	108	0.6	1.5	14.4	<1	117.5
REX1496		81	26	68.8	0.5	110	<1	9.1	<1	190.0	353	0.6	2.6	32.7	<1	181.0
REX1497		50	31	208	0.2	142	<1	23.5	<1	77.0	217	0.9	6.5	33.3	1	385
REX1498		106	44	119.5	<0.2	121	<1	15.3	<1	128.0	268	0.7	4.5	36.0	<1	302
REX1499		51	32	243	<0.2	307	<1	25.0	<1	47.2	91	0.5	2.9	26.9	<1	370
REX1500		39	27	123.0	<0.2	243	<1	14.2	<1	60.8	114	0.5	2.4	24.4	<1	225
REX1501		20	25	69.1	<0.2	252	<1	9.1	<1	61.5	186	0.5	1.8	16.5	<1	157.5
REX1502		148	44	151.0	0.7	77	<1	19.7	<1	184.5	693	0.7	5.4	30.4	1	326
REX1503		37	54	158.0	<0.2	284	<1	21.0	<1	51.1	194	0.7	4.7	40.5	<1	333
REX1504		70	60	364	<0.2	320	<1	47.7	<1	56.1	210	<0.5	9.4	36.5	1	849
REX1505		26	38	94.8	<0.2	520	<1	12.8	1	45.2	125	0.5	2.6	69.5	<1	284
REX1506		30	46	116.0	<0.2	278	<1	14.8	1	53.0	112	0.5	3.2	43.5	<1	300
REX1507		7	16	61.0	<0.2	848	<1	8.6	<1	2.94	26	<0.5	2.4	38.1	<1	202
REX1508		19	<2	77.4	<0.2	214	<1	9.7	<1	33.4	68	0.6	2.3	39.5	<1	204
REX1509		32	24	51.0	<0.2	188	<1	7.3	<1	79.2	164	0.6	2.0	15.1	<1	151.5
REX1510		96	27	115.5	0.3	107	<1	15.3	<1	154.5	486	0.9	3.5	24.8	1	283
REX1511		8	23	43.2	<0.2	477	<1	5.9	1	26.0	77	0.6	1.1	10.1	<1	115.5
REX1512		18	22	114.5	<0.2	532	<1	14.6	1	21.8	101	1.3	2.3	19.5	<1	271
REX1513		17	23	68.0	<0.2	240	<1	9.3	<1	41.1	104	0.6	2.4	21.7	<1	174.0
REX1514		13	26	69.6	<0.2	282	<1	9.5	1	31.1	124	0.7	2.1	21.2	<1	171.0
REX1515		120	36	81.1	0.3	42	<1	11.1	1	149.5	451	0.8	3.0	24.8	<1	204



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Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	ME-MS23
		Yb	Zn	Zr
		ppb	ppb	ppb
		0.1	10	0.1
REX1476		32.9	70	18.0
REX1477		16.1	60	29.4
REX1478		4.3	120	16.2
REX1479		10.7	50	29.5
REX1480		9.6	40	23.7
REX1481		11.7	20	18.9
REX1482		48.3	50	29.2
REX1483		20.3	100	37.8
REX1484		10.2	40	14.2
REX1485		25.4	20	13.5
REX1486		11.6	20	4.9
REX1487		24.2	30	14.1
REX1488		25.7	40	18.3
REX1489		12.5	150	9.8
REX1490		21.0	300	10.5
REX1491		19.2	80	11.9
REX1492		12.9	140	12.3
REX1493		19.8	20	9.4
REX1494		20.7	30	16.0
REX1495		8.9	100	17.9
REX1496		15.5	2140	48.9
REX1497		39.2	5620	20.8
REX1498		27.7	16000	27.2
REX1499		17.7	50	8.9
REX1500		13.9	30	9.2
REX1501		10.7	20	23.2
REX1502		33.1	40	40.8
REX1503		27.1	30	23.7
REX1504		56.2	180	28.9
REX1505		14.9	15000	21.9
REX1506		19.0	15800	28.5
REX1507		13.6	24000	4.0
REX1508		13.5	3900	8.8
REX1509		11.0	260	38.9
REX1510		20.6	20	26.4
REX1511		6.2	130	20.4
REX1512		13.1	50	13.8
REX1513		13.6	90	22.0
REX1514		11.6	90	20.8
REX1515		17.9	50	23.5



Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

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Sample Description	Method Analyte Units LOR	pH-MS23 Final pH Unity 0.1	ME-MS23 Ag ppb 0.1	ME-MS23 As ppb 2	ME-MS23 Au ppb 0.02	ME-MS23 Ba ppb 10	ME-MS23 Be ppb 0.2	ME-MS23 Bi ppb 3	ME-MS23 Br ppm 0.05	ME-MS23 Ca ppm 0.2	ME-MS23 Cd ppb 1	ME-MS23 Ce ppb 0.1	ME-MS23 Co ppb 0.3	ME-MS23 Cr ppb 1	ME-MS23 Cs ppb 0.1	ME-MS23 Cu ppb 1
REX1516		8.5	0.7	7	0.02	480	0.8	<3	0.09	83.3	2	176.0	382	15	2.1	1740
REX1517		8.5	10.2	9	0.90	6040	0.6	<3	0.12	143.5	479	237	900	3	9.9	11100
REX1518		8.3	11.9	13	0.44	2320	0.5	<3	0.16	145.0	158	255	2000	5	6.4	19850
REX1519		7.7	60.7	8	0.80	2810	0.2	<3	0.11	259	164	53.1	801	1	4.7	9530
REX1520		8.1	33.2	11	0.34	2930	0.4	<3	0.13	264	265	116.5	555	2	4.3	9840
REX1521		8.7	13.1	12	0.11	3240	0.8	<3	0.13	143.5	114	475	683	4	4.3	8050
REX1522		7.9	25.1	7	0.18	4200	0.2	<3	0.15	202	34	204	599	<1	2.2	4310
REX1523		7.9	13.1	7	0.10	4000	0.3	<3	0.18	199.5	14	173.0	593	<1	1.4	2960
REX1524		8.3	6.8	6	0.08	2250	1.0	<3	0.22	124.5	18	415	430	2	3.3	4310
REX1525		8.5	1.1	5	0.04	1980	<0.2	<3	0.08	151.5	1	19.5	155.5	<1	0.7	775
REX1526		8.5	7.4	4	0.11	1370	0.2	<3	0.18	220	4	94.2	781	1	2.1	1720
REX1527		8.5	4.9	8	0.07	1440	0.2	<3	0.12	130.0	7	176.0	272	1	1.4	1800
REX1528		7.7	33.6	10	0.06	4070	0.2	<3	0.09	330	55	131.5	559	3	2.7	2740
REX1529		8.3	22.2	17	0.20	2830	0.7	<3	0.13	237	69	276	732	3	3.9	12950
REX1530		8.3	22.8	11	0.46	2740	0.6	<3	0.16	147.0	89	238	796	4	7.2	20000
REX1531		8.5	15.7	14	0.35	5250	0.4	<3	0.09	204	374	248	631	2	6.5	11100
REX1532		8.5	4.9	8	0.15	7520	1.0	<3	0.11	172.5	284	325	1885	7	7.3	12150
REX1533		8.7	2.4	9	0.13	1320	0.9	<3	0.10	78.2	5	477	876	5	10.4	25100
REX1534		8.7	0.4	10	0.08	850	0.5	<3	0.09	65.5	1	352	230	15	3.2	1770
REX1535		8.7	2.2	9	0.86	660	0.8	<3	0.13	74.3	2	622	328	5	9.5	7740
REX1536		8.7	0.9	4	0.07	780	1.0	<3	0.14	85.1	1	283	94.0	16	2.5	2510
REX1537		8.7	1.0	7	0.06	710	2.2	<3	0.11	67.7	1	584	135.5	20	4.1	2100
REX1538		8.7	3.4	7	0.11	3180	1.0	<3	0.12	161.5	2	428	1435	10	5.9	16850
REX1539		8.3	4.3	9	0.10	5400	1.5	<3	0.11	120.0	17	499	447	18	7.3	8150
REX1540		8.3	11.2	2	0.40	5650	0.3	<3	0.09	144.5	162	161.5	292	2	4.9	8610
REX1541		8.3	12.5	10	0.50	6080	0.3	<3	0.09	169.0	188	144.5	279	2	5.4	10000
REX1542		8.3	7.9	5	0.19	3320	0.8	<3	0.07	124.5	71	498	404	6	4.6	8090
REX1543		8.3	14.4	11	0.09	3250	1.0	<3	0.09	122.0	25	644	347	3	2.5	5550
REX1544		8.3	10.0	7	0.09	2860	<0.2	<3	0.10	245	14	40.8	345	<1	2.1	3080
REX1545		8.3	4.0	3	0.07	1270	0.3	<3	0.09	145.5	4	95.0	348	2	2.0	1740
REX1546		7.7	3.1	8	0.02	2530	0.2	<3	0.10	224	3	135.0	233	1	0.8	1625
REX1547		8.3	3.4	<2	0.06	2210	0.4	<3	0.11	151.5	2	183.0	366	1	1.1	1430
REX1548		8.3	3.1	2	0.03	1680	0.5	<3	0.10	102.5	3	244	235	4	2.4	1060
REX1549		8.3	6.5	6	0.18	2090	0.6	<3	0.21	120.5	2	225	324	5	4.3	1580
REX1550		7.7	2.3	9	0.10	2110	0.2	<3	0.17	216	3	119.0	501	2	1.3	1210
REX1551		7.4	4.5	6	0.06	970	0.4	<3	0.13	147.5	8	206	353	2	2.2	2140
REX1552		8.3	12.4	6	0.08	3970	0.5	<3	0.13	226	35	118.5	264	1	3.0	3990
REX1553		8.3	9.1	5	0.15	3020	0.3	<3	0.14	183.0	5	224	240	1	3.8	3530
REX1554		8.3	3.6	8	0.04	4520	1.7	<3	0.08	73.3	5	678	164.0	17	5.5	5280
REX1555		8.3	3.9	6	0.16	7540	0.3	<3	0.08	141.0	3	209	375	4	6.6	7340



Australian Laboratory Services Pty. Ltd.  
 32 Shand Street  
 Stafford  
 Brisbane QLD 4053  
 Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
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Sample Description	Method Analyte Units LOR	ME-MS23 Dy ppb 0.1	ME-MS23 Er ppb 0.1	ME-MS23 Eu ppb 0.1	ME-MS23 Fe ppm 0.1	ME-MS23 Ga ppb 0.5	ME-MS23 Gd ppb 0.1	ME-MS23 Ge ppb 0.1	ME-MS23 Hf ppb 0.5	ME-MS23 Hg ppb 0.1	ME-MS23 Ho ppb 0.1	ME-MS23 I ppm 0.01	ME-MS23 In ppb 0.1	ME-MS23 La ppb 0.1	ME-MS23 Li ppb 0.2	ME-MS23 Lu ppb 0.1
REX1516		10.8	5.2	4.3	9.1	15.8	17.1	0.5	1.4	0.4	2.0	0.06	0.1	53.6	0.3	0.5
REX1517		54.1	24.5	30.0	4.6	212	95.5	3.0	1.6	0.5	9.7	0.22	<0.1	272	1.5	1.9
REX1518		46.0	21.6	20.7	7.0	73.9	78.6	2.4	1.2	0.3	8.6	0.18	<0.1	227	3.8	1.7
REX1519		24.9	10.5	14.3	3.6	90.7	45.9	1.3	<0.5	0.3	4.4	0.23	<0.1	94.7	5.5	0.7
REX1520		43.6	18.5	20.9	5.5	93.6	75.0	2.0	0.7	0.2	7.7	0.13	<0.1	197.0	2.9	1.3
REX1521		76.6	33.3	34.9	9.7	105.0	132.5	4.0	1.5	0.2	13.7	0.05	<0.1	401	1.7	2.6
REX1522		40.1	16.5	23.2	5.1	136.5	82.5	2.3	0.5	0.2	7.0	0.07	<0.1	145.0	1.4	1.3
REX1523		59.6	24.6	30.6	3.3	126.5	112.0	3.0	0.6	0.2	10.4	0.13	<0.1	154.0	0.8	1.9
REX1524		151.5	77.5	57.6	8.0	72.3	217	5.6	1.9	0.4	29.2	0.19	<0.1	318	2.3	7.5
REX1525		4.5	2.1	2.7	1.8	63.4	8.4	0.2	<0.5	0.3	0.8	0.12	<0.1	8.1	1.8	0.2
REX1526		30.8	12.3	15.6	4.0	45.4	58.7	1.7	<0.5	0.3	5.4	0.19	<0.1	84.4	1.2	1.0
REX1527		53.1	23.2	24.5	4.1	47.8	93.8	2.5	0.7	0.2	9.4	0.14	<0.1	143.0	1.3	1.9
REX1528		30.4	13.8	13.5	13.3	133.0	44.9	1.2	0.5	0.1	5.7	0.03	<0.1	112.5	12.2	0.9
REX1529		90.6	38.7	40.4	5.8	93.0	155.0	4.3	1.3	0.3	16.3	0.15	<0.1	405	3.1	2.9
REX1530		59.6	26.7	26.2	6.1	87.0	99.4	3.1	1.3	0.3	10.7	0.18	0.1	276	4.8	2.0
REX1531		57.8	26.3	26.1	6.9	191.5	95.3	3.0	1.5	0.3	10.5	0.09	<0.1	257	2.9	2.1
REX1532		35.8	16.9	18.8	12.4	265	59.2	2.0	1.7	0.3	6.5	0.10	<0.1	179.0	2.1	1.5
REX1533		41.5	19.7	20.3	4.4	42.3	77.4	2.9	1.2	0.6	7.3	0.35	<0.1	227	0.8	1.6
REX1534		18.9	9.3	7.9	9.3	27.9	30.9	1.1	1.2	0.3	3.5	0.07	0.1	108.5	0.4	0.8
REX1535		78.0	33.2	40.2	5.1	22.4	147.0	5.2	1.2	0.7	13.3	0.25	<0.1	354	0.7	2.6
REX1536		25.4	12.3	10.2	7.6	25.9	38.7	1.3	1.1	0.6	4.7	0.14	<0.1	109.0	0.5	1.1
REX1537		37.7	18.9	14.7	10.7	25.2	55.5	1.9	2.0	0.7	7.0	0.13	0.1	188.0	1.5	1.8
REX1538		44.3	20.9	24.1	6.6	101.0	87.6	3.3	1.4	0.4	8.0	0.13	<0.1	241	1.2	1.7
REX1539		85.1	45.1	44.2	19.7	185.0	178.5	5.5	3.9	0.5	17.5	0.07	0.1	453	5.0	3.9
REX1540		41.6	20.3	25.2	3.6	191.5	105.5	3.1	1.0	0.5	8.3	0.14	<0.1	303	2.6	1.6
REX1541		40.8	19.7	25.8	3.4	204	105.0	3.0	1.0	0.4	8.0	0.16	<0.1	289	2.3	1.4
REX1542		78.7	40.3	39.1	11.6	101.0	169.0	4.7	2.0	0.4	16.3	0.06	<0.1	440	3.6	3.3
REX1543		136.0	69.7	66.2	5.4	98.8	295	7.9	2.3	0.5	28.1	0.09	<0.1	649	2.8	5.4
REX1544		42.9	20.1	22.7	2.5	87.5	95.0	2.1	0.5	0.3	8.5	0.17	<0.1	118.0	1.0	1.6
REX1545		34.4	16.8	17.1	4.5	38.7	73.7	1.8	0.7	0.5	7.0	0.13	<0.1	99.0	1.4	1.3
REX1546		67.8	33.4	27.9	6.4	76.8	124.0	2.0	0.9	0.3	14.2	0.13	<0.1	98.0	1.2	2.6
REX1547		26.6	11.9	15.8	11.7	71.5	66.8	1.8	0.5	0.3	5.2	0.04	<0.1	96.1	1.2	0.9
REX1548		70.3	33.8	35.3	8.0	51.7	151.5	3.7	1.7	0.3	14.4	0.07	<0.1	257	3.1	2.5
REX1549		88.5	42.2	46.9	15.1	66.2	195.5	4.7	1.6	0.4	17.9	0.10	<0.1	272	2.8	3.2
REX1550		48.7	24.1	20.6	8.6	66.6	90.8	1.6	0.8	0.2	10.1	0.16	<0.1	78.4	1.6	1.9
REX1551		67.2	31.3	33.1	5.5	30.5	146.0	3.7	1.2	0.5	13.5	0.13	<0.1	184.5	1.6	2.2
REX1552		72.1	33.7	37.6	4.5	121.5	158.0	3.4	1.1	0.3	14.6	0.15	<0.1	245	1.2	2.5
REX1553		80.5	37.3	44.4	7.3	95.8	187.5	5.1	1.4	0.2	16.0	0.10	<0.1	365	1.0	2.8
REX1554		84.3	45.4	41.7	18.7	140.5	176.5	5.0	3.2	0.5	17.5	0.06	0.1	502	2.9	3.8
REX1555		58.6	27.6	37.8	5.2	258	143.0	4.3	1.5	0.6	11.4	0.16	<0.1	380	1.6	2.1



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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
		Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pb 206	Pb 207	Pb 208	Pd	Pr	Rb	Re
		ppm 0.01	ppm 0.01	ppb 0.5	ppb 0.1	ppb 0.1	ppb 1	ppb 1	ppb 1	ppb 1	ppb 1	ppb 0.1	ppb 0.1	ppb 0.1	ppb 0.1
REX1516		11.65	9.55	2.3	0.2	84.8	83	50	12	11	28	2.6	19.8	226	<0.1
REX1517		46.4	7.11	8.1	0.1	498	370	5010	1150	1120	2740	3.1	105.5	619	<0.1
REX1518		67.5	13.55	7.1	0.1	377	596	2870	652	636	1580	3.2	83.1	602	<0.1
REX1519		140.5	12.20	8.8	<0.1	182.0	459	870	203	193	472	1.3	34.2	437	<0.1
REX1520		83.8	9.64	5.7	<0.1	320	568	603	139	133	330	1.9	64.3	486	<0.1
REX1521		34.2	5.42	3.2	0.2	629	246	2240	514	497	1220	4.0	133.0	456	<0.1
REX1522		96.0	5.01	3.3	<0.1	345	440	355	82	78	194	1.6	60.4	402	<0.1
REX1523		129.0	7.67	2.6	<0.1	446	516	123	28	27	68	2.0	75.6	369	<0.1
REX1524		67.2	7.06	4.4	0.2	860	454	188	44	41	103	5.4	163.5	438	<0.1
REX1525		176.0	2.47	1.0	<0.1	31.9	88	27	6	6	15	0.2	5.3	315	<0.1
REX1526		62.5	9.35	4.1	0.1	232	420	39	9	8	22	1.2	40.1	366	<0.1
REX1527		46.1	5.23	3.8	0.1	397	328	47	11	10	25	1.9	71.9	252	<0.1
REX1528		68.3	14.95	4.0	<0.1	172.5	673	177	41	39	97	1.6	36.2	381	<0.1
REX1529		82.7	9.75	5.5	0.1	635	625	1000	245	237	515	4.2	128.0	534	<0.1
REX1530		64.8	7.02	3.9	0.2	473	353	2000	464	444	1090	3.1	101.0	576	<0.1
REX1531		56.9	9.73	5.8	0.1	432	459	1120	273	267	579	3.6	89.7	517	<0.1
REX1532		28.3	14.80	5.0	0.2	291	610	2530	584	558	1380	3.9	64.0	463	<0.1
REX1533		10.05	9.54	12.0	0.1	460	135	41	10	9	22	2.7	103.0	407	<0.1
REX1534		10.85	13.20	2.2	0.2	162.0	48	28	7	6	16	2.5	38.6	267	<0.1
REX1535		11.20	7.86	9.2	0.2	788	107	32	8	7	18	3.2	163.5	568	<0.1
REX1536		13.15	6.53	4.2	0.2	188.5	74	13	3	3	7	2.6	42.1	296	<0.1
REX1537		9.33	7.13	4.8	0.4	291	67	41	10	8	23	4.9	69.8	307	<0.1
REX1538		26.3	10.95	9.2	0.1	514	641	8	2	2	4	3.7	108.0	317	<0.1
REX1539		19.10	8.82	3.7	0.7	824	341	169	42	36	95	8.3	177.5	405	<0.1
REX1540		55.4	5.36	5.6	0.1	486	242	285	69	63	163	2.4	101.0	304	<0.1
REX1541		65.8	4.83	5.9	0.1	479	248	277	67	61	159	2.1	96.8	341	<0.1
REX1542		23.4	4.13	3.4	0.4	709	297	2210	533	490	1260	4.8	148.0	356	<0.1
REX1543		54.1	3.59	2.7	0.2	1215	264	968	244	228	525	5.8	249	287	<0.1
REX1544		70.2	5.06	4.6	<0.1	303	339	96	23	21	55	1.5	49.1	320	<0.1
REX1545		32.4	6.54	3.9	0.1	264	183	28	7	6	16	1.8	47.4	262	<0.1
REX1546		105.0	5.22	2.0	<0.1	314	426	22	5	4	12	2.6	50.9	276	<0.1
REX1547		39.2	4.39	2.3	0.1	247	190	28	7	6	16	1.5	42.7	285	<0.1
REX1548		24.8	5.98	2.4	0.3	573	144	23	5	5	13	4.4	109.5	319	<0.1
REX1549		30.4	5.93	2.4	0.4	707	153	66	16	14	37	4.3	126.5	508	<0.1
REX1550		95.1	10.25	2.2	0.1	231	339	33	8	7	19	2.0	38.0	353	<0.1
REX1551		40.2	7.38	3.5	0.1	538	228	33	8	7	19	2.9	95.4	312	<0.1
REX1552		55.7	4.47	3.1	0.1	555	301	103	25	23	59	2.9	97.8	326	<0.1
REX1553		29.0	6.22	3.8	0.1	734	238	51	13	11	29	3.8	137.5	364	<0.1
REX1554		12.50	4.84	3.0	0.4	819	286	161	41	34	90	6.5	181.5	364	<0.1
REX1555		29.3	8.56	6.5	0.2	660	228	18	5	4	10	3.8	136.0	436	<0.1

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Sample Description	Method Analyte Units LOR	ME-MS23 Sc ppb 1	ME-MS23 Se ppb 2	ME-MS23 Sm ppb 0.1	ME-MS23 Sn ppb 0.2	ME-MS23 Sr ppb 1	ME-MS23 Ta ppb 1	ME-MS23 Tb ppb 0.1	ME-MS23 Te ppb 1	ME-MS23 Th ppb 0.02	ME-MS23 Ti ppb 5	ME-MS23 Tl ppb 0.5	ME-MS23 Tm ppb 0.1	ME-MS23 U ppb 0.1	ME-MS23 W ppb 1	ME-MS23 Y ppb 0.1
REX1516		15	21	18.0	<0.2	220	<1	2.5	1	48.6	112	<0.5	0.6	6.7	<1	46.2
REX1517		14	52	110.0	<0.2	287	<1	12.9	<1	44.2	80	0.6	2.3	49.8	<1	243
REX1518		14	30	83.9	<0.2	398	<1	10.7	<1	28.4	79	<0.5	2.1	43.1	<1	222
REX1519		6	<2	46.1	<0.2	618	<1	6.1	2	4.75	27	<0.5	0.9	13.1	<1	124.0
REX1520		13	28	78.0	<0.2	414	<1	10.4	1	14.90	31	<0.5	1.7	25.6	<1	219
REX1521		45	35	140.0	<0.2	289	<1	18.0	<1	62.4	141	0.7	3.2	30.8	<1	367
REX1522		22	27	90.3	<0.2	582	<1	10.4	2	11.80	43	<0.5	1.5	18.5	<1	190.0
REX1523		23	27	122.5	<0.2	648	<1	14.8	2	11.20	31	<0.5	2.2	13.5	<1	274
REX1524		51	29	230	<0.2	431	<1	32.2	<1	33.6	203	0.5	8.4	41.5	1	590
REX1525		5	<2	9.3	<0.2	497	<1	1.2	2	0.62	27	<0.5	0.2	3.7	<1	24.7
REX1526		17	26	61.7	<0.2	449	<1	7.6	3	7.74	97	0.5	1.1	11.6	<1	142.5
REX1527		22	31	100.0	<0.2	414	<1	12.7	3	13.80	132	<0.5	2.1	12.1	<1	239
REX1528		5	27	43.6	<0.2	388	<1	6.7	2	8.90	43	<0.5	1.3	17.1	<1	152.0
REX1529		26	45	154.5	<0.2	574	<1	21.4	2	50.2	58	<0.5	3.6	48.4	<1	429
REX1530		14	23	106.0	<0.2	443	<1	13.9	2	25.2	92	0.6	2.6	55.9	<1	265
REX1531		20	48	100.5	<0.2	326	<1	13.4	<1	39.2	80	0.5	2.5	41.6	1	291
REX1532		13	9	64.4	<0.2	258	<1	8.2	1	37.5	101	<0.5	1.8	38.7	<1	167.0
REX1533		13	22	91.6	<0.2	147	<1	10.2	1	38.4	65	1.3	2.0	28.8	<1	176.0
REX1534		21	17	33.8	<0.2	252	<1	4.3	1	46.9	151	0.5	1.0	9.9	<1	79.3
REX1535		38	45	172.5	<0.2	293	<1	19.5	1	66.8	150	1.1	3.1	41.0	<1	295
REX1536		18	38	41.4	<0.2	265	<1	5.7	<1	38.0	126	0.5	1.3	16.4	<1	107.5
REX1537		44	8	61.3	0.3	183	<1	8.3	1	133.0	258	0.6	2.1	22.3	<1	155.5
REX1538		9	24	104.5	<0.2	331	<1	11.1	3	53.1	69	<0.5	2.0	33.2	<1	201
REX1539		29	34	161.5	0.4	222	<1	22.2	1	110.5	281	0.9	4.7	105.5	1	374
REX1540		16	27	95.2	<0.2	343	<1	12.0	1	35.9	72	0.5	1.9	40.5	<1	226
REX1541		17	29	94.8	<0.2	396	<1	12.0	1	33.8	62	0.5	1.8	45.0	<1	222
REX1542		38	40	144.5	<0.2	256	<1	21.1	<1	91.7	169	0.5	4.0	54.5	1	396
REX1543		43	40	250	<0.2	515	<1	36.5	1	84.9	129	0.6	6.7	52.7	1	668
REX1544		24	31	79.4	<0.2	697	<1	11.7	2	7.54	46	0.6	1.8	11.5	<1	237
REX1545		15	20	62.6	<0.2	432	<1	9.2	2	11.60	145	<0.5	1.6	17.7	<1	182.0
REX1546		18	21	93.9	<0.2	613	<1	16.7	2	9.40	57	<0.5	3.3	15.9	<1	382
REX1547		20	3	58.0	<0.2	299	<1	7.7	2	11.80	168	<0.5	1.0	16.9	<1	143.0
REX1548		35	34	126.0	<0.2	266	<1	18.6	<1	60.7	307	0.6	3.2	25.8	<1	396
REX1549		42	30	166.0	0.2	363	<1	24.2	<1	37.1	380	0.8	3.9	36.6	<1	402
REX1550		17	31	68.7	<0.2	555	<1	12.3	1	9.33	93	<0.5	2.3	14.9	<1	264
REX1551		17	28	127.5	<0.2	375	<1	18.3	1	13.50	152	<0.5	2.9	27.9	<1	333
REX1552		28	42	136.0	<0.2	549	<1	19.6	2	34.8	65	<0.5	3.1	29.3	<1	393
REX1553		38	31	164.0	<0.2	455	<1	22.6	2	78.0	132	0.5	3.4	47.2	<1	395
REX1554		40	38	155.5	0.2	164	<1	22.1	1	108.0	196	0.7	4.7	65.5	1	387
REX1555		22	25	131.5	<0.2	334	<1	16.6	2	59.5	116	<0.5	2.5	51.3	1	292



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Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	ME-MS23
		Yb	Zn	Zr
		ppb	ppb	ppb
		0.1	10	0.1
REX1516		3.2	60	22.8
REX1517		13.8	12100	21.6
REX1518		12.1	5900	17.0
REX1519		5.1	6070	2.8
REX1520		9.4	8290	6.6
REX1521		18.1	4620	17.0
REX1522		8.7	770	3.7
REX1523		12.9	310	3.5
REX1524		50.0	430	13.3
REX1525		1.2	230	0.7
REX1526		6.5	100	4.1
REX1527		12.6	290	5.4
REX1528		7.0	3450	6.3
REX1529		20.3	3530	14.0
REX1530		14.4	5680	16.1
REX1531		14.9	5540	20.8
REX1532		10.1	5880	29.1
REX1533		11.4	120	14.9
REX1534		6.0	30	19.8
REX1535		18.2	10	12.3
REX1536		7.6	40	16.7
REX1537		12.8	30	35.4
REX1538		11.3	30	22.6
REX1539		28.2	110	61.9
REX1540		11.1	1900	11.9
REX1541		10.5	2080	11.3
REX1542		23.8	2080	24.7
REX1543		38.8	750	22.1
REX1544		10.9	260	1.9
REX1545		9.5	90	7.9
REX1546		18.4	250	6.1
REX1547		6.2	100	5.9
REX1548		18.6	50	20.9
REX1549		22.5	40	16.0
REX1550		13.4	180	6.3
REX1551		16.2	180	10.5
REX1552		17.9	630	9.6
REX1553		19.7	30	13.1
REX1554		27.4	20	46.0
REX1555		15.0	20	21.5





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Sample Description	Method Analyte Units LOR	pH-MS23 Final pH Unity 0.1	ME-MS23 Ag ppb 0.1	ME-MS23 As ppb 2	ME-MS23 Au ppb 0.02	ME-MS23 Ba ppb 10	ME-MS23 Be ppb 0.2	ME-MS23 Bi ppb 3	ME-MS23 Br ppm 0.05	ME-MS23 Ca ppm 0.2	ME-MS23 Cd ppb 1	ME-MS23 Ce ppb 0.1	ME-MS23 Co ppb 0.3	ME-MS23 Cr ppb 1	ME-MS23 Cs ppb 0.1	ME-MS23 Cu ppb 1
REX1556		8.3	1.8	13	0.05	4320	8.7	<3	0.12	58.5	2	1515	185.0	34	7.1	8590
REX1557		8.3	1.6	6	0.03	1130	1.0	<3	0.11	77.7	1	731	468	8	4.1	8270
REX1558		8.3	2.7	3	0.12	1920	0.6	<3	0.09	76.3	2	567	355	10	3.0	3760
REX1559		8.3	6.2	6	0.07	990	0.4	<3	0.07	112.5	7	170.0	317	4	3.8	4140
REX1560		8.3	1.1	6	0.02	1170	2.8	<3	0.08	29.4	1	1050	180.5	20	4.2	2560
REX1561		8.3	2.4	<2	0.07	3690	0.5	<3	0.06	92.0	2	510	311	4	4.7	8260
REX1562		8.3	3.6	4	0.24	4420	0.6	<3	0.09	138.0	2	373	216	4	6.6	7110
REX1563		8.3	2.1	11	0.06	3470	5.2	<3	0.07	42.3	1	961	68.4	44	5.4	2960
REX1564		8.3	3.8	3	0.08	2430	0.2	<3	0.15	135.5	3	204	266	3	2.9	2190
REX1565		8.3	2.4	2	0.05	1550	<0.2	<3	0.10	208	4	65.9	380	1	1.4	1675
REX1566		8.3	0.6	3	0.06	2030	0.2	<3	0.07	160.0	1	26.4	50.5	<1	0.6	695
REX1567		8.3	3.5	7	0.08	1250	0.5	<3	0.15	155.5	2	113.5	268	2	2.8	1505
REX1568		8.3	2.7	6	0.04	1330	0.2	<3	0.09	97.4	1	167.0	139.0	2	2.8	1390
REX1569		9.0	1.0	9	<0.02	1240	1.1	<3	0.08	56.1	2	402	95.1	12	2.5	685
REX1570		7.7	2.4	6	0.22	2680	0.4	<3	0.15	72.1	1	905	267	2	5.4	4400
REX1571		8.3	1.0	4	0.09	420	0.4	<3	0.15	102.5	2	298	131.5	7	7.3	1690
REX1572		8.3	1.1	7	0.07	390	0.4	<3	0.14	98.4	2	311	130.0	7	7.7	1735
REX1573		8.3	1.0	11	0.07	480	2.0	<3	0.18	21.2	1	822	78.7	23	7.5	739
REX1574		8.3	1.9	15	0.32	970	9.8	<3	0.26	43.2	1	3320	125.5	25	10.1	3310
REX1575		8.3	0.7	6	0.13	1000	1.1	<3	0.13	73.0	1	408	218	9	3.9	1610
REX1576		8.3	0.5	9	0.05	960	1.1	<3	0.09	56.7	1	599	92.8	11	6.1	1305
REX1577		8.3	0.7	10	0.13	710	1.1	<3	0.10	51.6	1	845	134.0	16	5.4	1490
REX1578		8.3	0.6	9	0.05	500	1.4	<3	0.17	43.3	1	509	114.0	13	4.8	749
REX1579		8.3	0.6	6	<0.02	470	1.5	<3	0.07	38.8	1	654	70.3	14	5.8	852
REX1580		8.3	1.1	5	0.05	910	0.7	<3	0.10	104.0	2	403	226	9	4.8	2050
REX1581		8.3	1.6	5	0.33	1380	1.2	<3	0.10	68.0	1	995	228	6	5.0	3470
REX1582		8.3	0.8	11	0.25	1050	2.1	<3	0.11	33.5	<1	2270	73.2	13	8.5	1205
REX1583		8.3	1.7	10	0.03	780	5.9	<3	0.13	28.8	2	945	94.0	31	12.1	1890
REX1584		8.3	1.3	4	1.03	4260	<0.2	<3	0.11	217	<1	336	28.8	1	8.1	7050
REX1585		8.3	1.4	14	0.41	1350	2.1	<3	0.22	82.3	1	2400	133.5	11	7.3	4590
REX1586		8.3	1.1	9	0.08	320	1.8	<3	0.11	33.4	<1	1700	155.5	12	10.5	2180
REX1587		8.3	2.2	5	2.20	2750	0.5	<3	0.07	150.0	1	1015	773	7	4.1	4840
REX1588		8.3	2.1	12	0.35	780	3.8	<3	0.22	117.5	3	572	270	10	5.4	3640
REX1589		8.3	1.3	10	0.06	690	1.2	<3	0.12	95.4	1	311	220	9	5.7	2750
REX1590		8.3	0.8	7	0.03	780	0.7	<3	0.11	65.3	1	222	338	10	1.8	1020
REX1591		8.3	0.8	3	<0.02	470	2.8	<3	0.14	74.4	1	238	107.5	26	3.4	1150
REX1592		9.0	0.7	4	<0.02	590	0.6	<3	<0.05	44.8	1	274	247	8	1.0	570
REX1593		8.3	0.5	5	<0.02	720	2.8	<3	0.14	93.9	2	314	423	20	4.2	1020
REX1594		6.8	1.0	10	<0.02	670	5.9	<3	0.16	75.0	3	238	184.0	21	9.1	1160
REX1595		8.1	1.5	5	0.14	760	0.7	<3	0.14	178.0	2	140.0	557	5	4.3	1910



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 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
		Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	In	La	Li
		ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
		0.1	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
REX1556		104.5	62.6	46.0	20.7	131.5	195.5	6.3	3.9	0.5	22.7	0.16	0.4	515	4.7
REX1557		57.7	29.4	36.3	5.7	34.8	154.5	5.4	1.5	0.6	11.2	0.24	<0.1	489	0.7
REX1558		47.8	24.2	29.5	6.9	59.1	123.5	4.1	1.5	0.6	9.4	0.15	<0.1	401	1.4
REX1559		33.1	15.9	21.1	3.9	29.9	89.2	2.8	0.9	0.5	6.4	0.10	<0.1	281	0.9
REX1560		59.4	32.3	28.7	13.5	38.0	126.0	4.0	1.9	0.4	12.1	0.12	0.1	408	2.8
REX1561		87.0	43.1	51.7	5.3	111.5	210	6.7	2.5	0.7	17.1	0.17	<0.1	460	0.8
REX1562		110.5	52.8	65.1	7.0	147.5	252	7.2	3.0	1.0	21.7	0.26	<0.1	363	1.8
REX1563		161.0	86.6	69.4	36.3	108.5	298	8.7	4.2	0.5	33.4	0.02	0.2	711	6.8
REX1564		56.6	28.2	28.0	10.1	74.1	118.0	2.7	1.4	0.4	11.6	0.18	<0.1	181.5	2.3
REX1565		25.2	11.5	13.9	3.9	48.5	58.8	1.4	<0.5	0.3	4.9	0.11	<0.1	79.8	0.7
REX1566		9.6	4.3	5.7	1.9	62.1	21.4	0.6	<0.5	0.4	1.9	0.07	<0.1	22.0	1.7
REX1567		63.1	29.8	33.2	6.8	38.9	138.5	3.2	1.5	0.3	12.7	0.12	<0.1	187.5	2.1
REX1568		66.7	31.4	36.2	5.8	41.0	154.0	4.1	1.5	0.4	13.4	0.05	<0.1	301	0.9
REX1569		76.7	37.6	34.9	15.3	38.6	153.5	4.0	2.2	0.5	15.6	0.02	<0.1	390	1.7
REX1570		127.5	58.9	69.4	4.9	85.6	313	8.7	2.0	0.5	24.5	0.13	<0.1	486	1.5
REX1571		22.0	10.6	10.7	4.9	13.4	46.7	1.3	1.1	0.8	4.4	0.29	<0.1	107.0	0.6
REX1572		24.3	12.1	11.5	4.8	13.0	49.9	1.3	1.2	0.8	5.0	0.31	<0.1	111.0	0.6
REX1573		41.7	21.2	17.1	17.4	20.5	77.0	2.3	2.1	0.9	8.2	0.46	0.2	218	2.8
REX1574		189.0	101.5	91.3	27.5	41.0	415	13.7	4.2	0.9	38.0	0.85	0.1	916	10.8
REX1575		30.4	15.0	15.9	5.9	32.0	66.7	2.1	1.4	0.5	6.0	0.14	<0.1	147.0	0.8
REX1576		35.9	19.3	17.5	8.2	31.8	74.2	2.3	1.4	0.5	7.4	0.16	0.1	200	1.9
REX1577		39.7	21.8	19.0	13.1	25.9	82.3	2.6	1.6	0.6	8.0	0.17	0.1	238	2.5
REX1578		27.8	15.3	12.0	7.7	17.9	53.1	1.5	1.6	0.7	5.8	0.29	0.1	144.5	1.3
REX1579		34.0	18.4	15.0	8.9	17.2	66.8	2.1	1.4	0.8	7.0	0.29	0.1	194.5	1.9
REX1580		39.0	20.3	19.4	4.4	27.8	83.4	2.4	1.4	0.8	8.0	0.16	<0.1	203	0.2
REX1581		40.1	20.6	34.1	5.1	43.3	149.5	5.9	1.2	0.7	7.7	0.34	<0.1	422	1.0
REX1582		80.7	42.9	41.3	10.2	35.8	191.0	6.6	1.7	1.1	15.7	0.79	0.1	552	4.6
REX1583		69.7	33.0	24.1	19.2	31.1	115.0	3.3	3.6	1.0	14.1	0.48	0.3	325	3.7
REX1584		24.4	10.9	13.3	1.4	145.5	65.8	1.9	<0.5	0.7	4.9	0.21	<0.1	176.5	0.3
REX1585		138.0	62.3	72.9	7.1	42.9	365	12.3	2.6	0.6	26.2	0.42	<0.1	898	2.7
REX1586		80.2	39.3	35.7	13.1	14.2	174.5	5.8	1.9	0.9	16.2	0.73	0.1	483	3.5
REX1587		36.1	16.6	22.9	5.2	84.9	114.0	3.9	1.3	0.3	6.7	0.37	<0.1	347	1.4
REX1588		131.5	75.0	39.7	13.9	26.6	185.0	3.8	2.6	0.7	30.6	0.40	0.1	144.0	2.3
REX1589		25.7	13.6	9.8	4.7	22.3	45.6	1.1	1.1	0.5	5.6	0.25	<0.1	90.9	0.4
REX1590		15.4	7.3	6.8	5.4	24.3	30.9	0.9	0.9	0.3	3.1	0.16	<0.1	82.9	<0.2
REX1591		15.4	7.8	5.8	13.4	16.9	26.3	0.6	2.0	0.6	3.2	0.27	0.1	65.1	1.3
REX1592		10.0	5.0	4.6	5.8	18.2	21.9	0.8	0.8	0.3	2.0	0.05	<0.1	65.1	0.5
REX1593		16.3	8.4	6.2	12.8	24.0	29.5	0.9	1.6	0.5	3.4	0.18	0.1	90.7	0.6
REX1594		32.9	19.0	9.2	27.4	25.8	43.0	1.0	2.5	0.4	7.5	0.15	0.3	78.5	0.7
REX1595		60.2	31.4	21.8	7.2	25.0	94.5	2.0	1.3	0.6	13.4	0.29	<0.1	100.0	0.6



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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
		Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pb 206	Pb 207	Pb 208	Pd	Pr	Rb	Re
		ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
		0.01	0.01	0.5	0.1	0.1	1	1	1	1	1	0.1	0.1	0.1	0.1
REX1556		13.85	5.58	3.0	0.8	958	353	82	21	17	46	8.0	230	351	<0.1
REX1557		10.95	8.91	6.0	0.2	900	95	12	3	2	6	3.1	207	280	<0.1
REX1558		24.1	8.97	6.0	0.2	665	152	20	5	4	11	3.4	148.0	272	<0.1
REX1559		16.45	11.55	7.5	0.2	441	157	35	8	7	20	2.3	94.8	278	<0.1
REX1560		4.49	8.28	3.4	0.6	627	67	74	19	15	42	4.2	150.5	229	<0.1
REX1561		16.90	7.47	5.6	0.2	1085	266	16	4	3	8	5.6	228	298	<0.1
REX1562		31.7	7.29	7.2	0.3	1100	302	17	5	3	9	6.4	202	396	<0.1
REX1563		7.49	2.73	3.0	1.1	1355	170	205	54	42	115	9.5	300	321	<0.1
REX1564		20.3	6.61	2.5	0.3	428	220	40	10	8	23	3.2	78.7	315	<0.1
REX1565		45.2	7.78	3.2	0.1	219	167	17	4	3	9	1.1	38.5	247	<0.1
REX1566		96.9	0.74	1.3	<0.1	74.3	92	58	14	12	33	0.4	12.2	227	<0.1
REX1567		35.9	6.49	2.9	0.3	491	286	28	7	6	16	3.3	87.5	422	<0.1
REX1568		21.5	5.38	1.7	0.2	618	147	22	5	4	12	3.5	120.5	438	<0.1
REX1569		11.75	2.71	1.6	0.5	621	104	94	23	20	53	5.0	136.5	422	<0.1
REX1570		93.8	3.42	1.4	0.1	1345	265	56	14	11	32	4.9	256	495	<0.1
REX1571		12.20	11.00	8.5	0.2	191.0	53	9	2	2	5	2.4	40.4	391	<0.1
REX1572		11.15	11.00	8.9	0.2	196.5	53	14	3	3	8	2.5	41.9	400	<0.1
REX1573		2.58	8.25	8.0	0.8	356	21	163	40	34	94	4.3	86.7	253	<0.1
REX1574		11.90	6.19	7.1	1.5	1830	77	160	39	33	92	9.0	410	585	<0.1
REX1575		8.98	11.70	4.8	0.2	310	83	15	3	3	9	3.1	64.4	215	<0.1
REX1576		5.91	7.35	5.7	0.4	338	57	47	11	10	27	3.2	76.9	269	<0.1
REX1577		6.83	12.75	7.2	0.7	379	46	64	15	13	36	3.9	87.1	299	<0.1
REX1578		6.23	11.00	9.1	0.3	239	32	65	16	13	37	3.2	55.0	233	<0.1
REX1579		4.23	7.34	7.9	0.5	308	20	75	18	15	43	3.1	73.7	252	<0.1
REX1580		21.0	11.70	7.4	0.1	374	135	15	3	3	8	3.0	81.0	315	<0.1
REX1581		12.90	4.54	4.6	0.1	909	84	39	9	8	22	2.7	195.5	336	<0.1
REX1582		6.72	3.20	6.5	0.6	1030	19	86	21	17	49	3.9	244	395	<0.1
REX1583		2.86	11.80	7.1	0.8	462	63	120	30	25	63	7.1	118.0	519	<0.1
REX1584		123.0	0.31	1.0	0.2	273	25	45	11	8	25	1.4	59.4	580	<0.1
REX1585		58.3	3.33	2.7	0.3	1830	211	35	9	7	19	5.7	391	546	<0.1
REX1586		8.03	8.41	9.2	0.5	821	32	83	21	17	44	4.3	205	491	<0.1
REX1587		35.1	7.42	2.2	0.2	589	181	31	8	6	17	3.0	141.0	334	<0.1
REX1588		28.9	8.48	4.4	0.2	528	354	32	8	7	17	7.2	100.0	583	<0.1
REX1589		12.70	12.10	7.5	0.1	180.0	85	30	7	6	16	2.5	41.4	398	<0.1
REX1590		17.80	16.00	4.6	0.1	131.5	47	22	6	5	12	2.1	32.0	245	<0.1
REX1591		7.54	9.37	5.9	0.3	103.0	70	38	10	8	20	3.8	25.5	253	<0.1
REX1592		13.60	11.45	2.6	0.1	100.0	49	17	4	4	9	1.6	24.9	136.0	<0.1
REX1593		12.70	24.6	3.1	0.2	121.5	100	43	11	9	23	3.2	32.1	337	<0.1
REX1594		9.50	11.90	1.8	0.3	144.5	141	180	45	38	94	5.0	34.2	463	<0.1
REX1595		32.6	20.3	5.7	0.1	286	284	16	4	3	8	3.6	54.8	530	<0.1



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Sample Description	Method Analyte Units LOR	ME-MS23 Sc ppb 1	ME-MS23 Se ppb 2	ME-MS23 Sm ppb 0.1	ME-MS23 Sn ppb 0.2	ME-MS23 Sr ppb 1	ME-MS23 Ta ppb 1	ME-MS23 Tb ppb 0.1	ME-MS23 Te ppb 1	ME-MS23 Th ppb 0.02	ME-MS23 Ti ppb 5	ME-MS23 Tl ppb 0.5	ME-MS23 Tm ppb 0.1	ME-MS23 U ppb 0.1	ME-MS23 W ppb 1	ME-MS23 Y ppb 0.1
REX1556		116	50	175.0	0.6	147	<1	25.7	1	193.0	367	0.6	7.0	72.3	1	485
REX1557		17	17	152.0	<0.2	243	<1	17.7	1	89.1	83	0.8	2.7	33.8	<1	257
REX1558		18	28	117.5	<0.2	334	<1	14.1	2	58.3	127	0.6	2.2	36.3	<1	209
REX1559		9	18	81.9	<0.2	236	<1	10.1	<1	30.4	78	0.6	1.4	21.8	<1	169.5
REX1560		68	31	113.5	0.4	104	<1	15.7	<1	123.5	301	0.8	3.5	36.4	1	274
REX1561		19	<2	199.5	<0.2	315	<1	24.8	<1	89.5	89	0.7	4.1	83.6	1	374
REX1562		32	49	243	<0.2	330	<1	31.0	<1	97.5	121	0.8	4.9	114.5	1	474
REX1563		147	32	265	0.5	86	<1	40.1	<1	201	557	0.5	9.3	74.9	2	734
REX1564		25	24	99.5	<0.2	264	<1	14.8	2	37.0	273	<0.5	2.7	32.1	<1	289
REX1565		11	<2	52.4	<0.2	431	<1	7.1	1	8.35	67	<0.5	1.0	11.6	<1	131.5
REX1566		5	<2	19.6	<0.2	461	<1	2.6	1	1.69	32	<0.5	0.4	5.6	<1	48.7
REX1567		23	36	116.5	<0.2	505	<1	17.2	2	34.9	253	<0.5	2.7	24.3	<1	334
REX1568		31	20	130.5	<0.2	295	<1	18.5	1	66.0	210	0.6	2.8	23.7	<1	374
REX1569		52	23	126.0	<0.2	136	<1	20.0	2	76.8	421	0.5	3.6	20.6	1	408
REX1570		54	44	292	<0.2	253	<1	36.7	2	45.4	91	0.5	5.3	20.4	1	559
REX1571		14	22	40.9	<0.2	165	<1	5.9	1	39.4	102	0.8	1.1	20.1	<1	96.9
REX1572		16	40	43.0	<0.2	156	<1	6.5	2	43.1	106	0.8	1.3	22.1	<1	106.5
REX1573		97	47	67.8	0.4	38	<1	10.5	1	146.0	456	0.8	2.3	20.1	1	187.0
REX1574		284	40	401	1.5	78	1	50.9	3	450	805	1.1	11.4	52.2	1	744
REX1575		22	20	64.6	<0.2	216	<1	8.3	1	56.3	112	0.9	1.5	19.0	<1	131.0
REX1576		34	35	66.5	0.2	167	<1	9.4	1	90.3	241	1.0	2.1	20.9	<1	166.5
REX1577		63	17	74.0	0.4	151	<1	10.4	2	142.0	399	0.8	2.4	31.8	<1	178.5
REX1578		51	29	47.3	<0.2	104	<1	7.0	2	112.5	215	0.8	1.7	17.9	<1	122.0
REX1579		60	<2	58.9	0.6	82	<1	8.8	1	145.5	283	0.6	2.1	19.5	<1	155.0
REX1580		10	33	73.9	<0.2	279	<1	10.5	2	39.8	79	0.8	2.1	18.2	<1	181.5
REX1581		45	15	157.5	<0.2	222	<1	14.3	1	85.7	118	0.8	1.7	32.1	<1	182.0
REX1582		90	44	185.0	0.5	90	<1	22.6	2	258	296	1.2	4.6	27.7	1	328
REX1583		141	47	115.5	0.7	64	<1	16.9	4	251	487	1.2	4.0	33.7	1	360
REX1584		9	20	67.8	<0.2	715	<1	7.3	3	27.7	23	1.1	1.0	6.5	<1	139.5
REX1585		55	69	429	0.4	204	<1	41.6	1	152.5	130	0.7	6.3	29.0	1	634
REX1586		135	25	191.5	0.6	64	<1	21.6	1	248	299	0.9	4.5	32.1	1	392
REX1587		17	11	130.5	0.2	396	<1	11.7	2	85.7	74	0.8	1.6	17.4	<1	189.5
REX1588		66	49	172.5	0.2	170	<1	28.4	4	37.7	180	1.1	9.2	39.6	1	704
REX1589		22	6	47.3	0.2	296	<1	6.2	7	51.7	80	1.0	1.6	23.4	<1	141.5
REX1590		15	17	32.2	0.2	254	<1	4.0	7	42.8	57	0.5	0.8	17.0	<1	78.8
REX1591		46	7	26.5	0.4	127	<1	3.6	1	119.0	193	0.7	1.0	16.6	<1	81.3
REX1592		11	<2	23.1	<0.2	161	<1	2.7	1	39.4	81	0.5	0.6	10.6	<1	53.1
REX1593		23	16	28.8	0.3	275	<1	4.0	<1	73.1	120	0.6	1.1	11.4	<1	87.8
REX1594		59	19	40.8	0.2	209	<1	6.9	1	112.0	177	0.7	2.5	16.8	<1	197.5
REX1595		18	10	89.9	<0.2	524	<1	13.7	3	21.2	79	1.3	3.4	28.2	1	387



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Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	ME-MS23
		Yb	Zn	Zr
		ppb	ppb	ppb
		0.1	10	0.1
REX1556		42.7	30	57.9
REX1557		16.5	10	20.5
REX1558		13.5	20	22.6
REX1559		8.2	60	13.2
REX1560		21.5	20	27.0
REX1561		23.6	10	32.8
REX1562		29.0	10	38.4
REX1563		54.2	20	53.9
REX1564		16.0	20	19.2
REX1565		5.9	100	4.4
REX1566		2.4	110	1.1
REX1567		15.8	30	14.6
REX1568		16.0	20	16.1
REX1569		21.3	40	29.3
REX1570		31.7	50	16.3
REX1571		6.3	20	18.7
REX1572		7.4	30	18.3
REX1573		13.9	50	33.1
REX1574		72.2	40	53.5
REX1575		8.9	40	23.2
REX1576		12.7	20	22.8
REX1577		14.6	30	28.9
REX1578		10.5	30	26.0
REX1579		12.4	40	22.5
REX1580		11.3	50	21.2
REX1581		11.7	30	16.0
REX1582		28.1	20	21.9
REX1583		23.2	100	66.4
REX1584		6.0	10	4.0
REX1585		38.0	50	29.8
REX1586		28.1	40	30.7
REX1587		9.7	30	20.8
REX1588		50.0	340	38.2
REX1589		9.6	40	21.6
REX1590		5.0	60	17.6
REX1591		5.8	50	41.8
REX1592		3.2	40	14.6
REX1593		6.2	90	33.7
REX1594		14.4	70	50.0
REX1595		18.5	110	20.5



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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	
		Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	In	La	Li	Lu	
		ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
		0.1	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	
REX1596		28.0	13.4	18.2	3.3	85.1	92.3	3.5	1.0	0.7	5.4	0.29	<0.1	329	1.0	1.0	
REX1597		40.6	18.8	21.0	6.7	14.0	106.0	3.5	1.4	0.5	7.9	0.41	<0.1	332	1.2	1.8	
REX1598		59.4	26.3	35.7	4.0	37.8	171.0	6.0	1.0	0.5	11.3	0.35	<0.1	443	1.2	2.0	
REX1599		49.0	21.1	31.4	4.1	42.7	146.0	5.1	0.9	0.6	9.0	0.33	<0.1	408	1.0	1.6	
REX1600		71.3	35.8	31.8	18.4	18.3	159.5	5.0	2.6	1.2	14.5	0.74	0.1	438	5.8	3.5	
REX1601		39.4	19.6	13.8	23.8	15.3	63.8	1.9	3.4	1.3	8.2	0.43	0.1	154.5	4.0	1.8	
REX1602		16.9	9.4	5.3	14.5	17.8	24.2	0.6	1.1	0.4	3.7	0.13	0.1	39.0	0.4	0.9	
REX1603		45.6	25.9	19.4	49.2	47.1	88.4	2.9	2.3	0.5	9.9	0.10	0.4	248	1.2	3.0	
REX1604		6.9	3.3	3.2	8.3	15.5	14.9	0.4	0.9	0.4	1.4	0.07	<0.1	42.2	0.7	0.3	
REX1605		10.1	4.7	4.1	11.4	19.0	19.1	0.5	1.3	0.5	2.0	0.11	<0.1	55.9	0.8	0.4	
REX1606		25.3	11.8	14.1	5.5	41.8	63.8	2.4	1.3	0.3	5.0	0.10	<0.1	195.0	0.5	0.9	
REX1607		32.8	17.5	16.8	9.3	40.6	82.8	2.9	2.3	0.5	6.9	0.13	0.1	298	1.0	1.7	
REX1608		18.7	10.1	6.9	13.5	28.5	32.9	0.8	1.9	0.5	3.9	0.14	0.1	99.3	0.7	1.0	
REX1609		27.5	14.0	10.0	13.3	17.3	48.0	1.4	1.9	0.5	5.7	0.28	0.1	136.0	1.1	1.4	
REX1610		61.0	31.7	27.4	17.2	41.7	127.0	3.8	2.5	0.5	13.0	0.22	0.1	351	1.4	3.0	
REX1611		36.1	19.4	13.2	8.1	24.9	61.2	1.7	2.2	0.4	7.7	0.27	0.1	137.0	1.0	1.9	
REX1612		120.0	57.9	58.0	10.8	39.7	293	9.6	2.9	0.9	23.9	0.43	0.1	777	3.7	5.3	
REX1613		57.7	24.8	31.6	4.8	42.9	132.0	3.7	0.9	0.4	11.3	0.23	<0.1	187.5	1.3	1.9	
REX1614		90.6	42.0	42.8	5.3	37.5	189.0	4.9	1.4	0.4	18.6	0.20	<0.1	264	1.7	3.5	
REX1615		54.4	23.7	28.3	5.9	41.4	130.5	3.8	1.1	0.3	10.4	0.18	<0.1	290	1.6	1.8	
REX1616		37.2	19.0	14.0	10.2	21.4	68.7	2.1	1.9	0.6	7.8	0.27	0.1	187.5	2.2	1.9	
REX1617		28.9	13.5	15.7	3.9	34.4	72.4	2.3	0.8	0.3	5.8	0.25	<0.1	197.0	0.4	1.2	
REX1618		52.4	26.8	19.7	13.9	13.5	101.0	3.1	2.7	0.7	11.0	0.32	0.2	286	2.3	2.6	
REX1619		23.8	11.7	8.7	14.9	29.5	43.9	1.4	2.8	0.4	4.9	0.14	0.3	160.5	1.3	1.1	
REX1620		57.4	26.7	30.5	6.0	63.7	142.5	4.5	1.5	0.4	11.4	0.23	<0.1	379	1.8	2.1	



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Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
		Sc	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U	W	Y
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
		1	2	0.1	0.2	1	1	0.1	1	0.02	5	0.5	0.1	0.1	1	0.1
REX1596		16	22	105.0	<0.2	528	<1	9.3	<1	103.0	59	0.8	1.3	14.6	<1	156.5
REX1597		46	16	116.0	0.2	174	<1	11.8	<1	134.0	102	0.7	2.1	24.1	<1	198.5
REX1598		16	21	203	0.2	374	<1	18.7	1	45.1	71	0.7	2.5	17.5	<1	317
REX1599		21	35	173.0	<0.2	481	<1	15.7	<1	44.3	70	0.7	2.0	15.6	<1	259
REX1600		126	26	168.5	0.8	120	<1	19.1	<1	267	426	1.2	4.2	40.8	1	354
REX1601		131	16	64.1	0.9	90	<1	9.2	<1	197.5	618	0.8	2.4	32.2	1	205
REX1602		16	7	22.6	<0.2	394	<1	3.8	1	29.0	107	1.0	1.2	9.1	<1	98.0
REX1603		82	7	91.9	0.3	531	<1	11.3	1	136.0	209	0.6	3.4	28.7	1	253
REX1604		5	<2	14.7	<0.2	377	<1	1.9	<1	18.25	104	0.5	0.4	6.0	<1	36.5
REX1605		7	18	18.6	0.2	431	<1	2.6	1	25.7	127	0.6	0.5	8.9	<1	49.4
REX1606		6	13	76.0	<0.2	273	<1	7.4	<1	41.3	67	0.8	1.2	21.1	<1	131.5
REX1607		18	16	88.5	0.2	390	<1	9.2	<1	79.2	88	0.6	2.0	44.6	<1	177.5
REX1608		25	22	31.7	0.2	367	<1	4.5	2	75.9	132	0.9	1.2	13.3	<1	104.0
REX1609		54	14	48.5	0.3	158	<1	6.6	<1	129.0	216	<0.5	1.8	19.9	<1	142.5
REX1610		51	32	132.0	0.3	302	<1	15.9	1	170.0	218	0.7	3.8	35.9	1	327
REX1611		50	11	60.8	0.3	268	<1	8.6	2	132.0	200	0.7	2.4	27.1	<1	200
REX1612		84	48	321	0.4	282	<1	33.9	<1	174.5	233	1.6	6.3	40.4	1	539
REX1613		15	37	142.0	<0.2	617	<1	16.0	<1	14.60	83	0.8	2.5	14.8	<1	319
REX1614		32	36	196.5	<0.2	673	<1	24.4	1	20.8	90	0.9	4.4	19.3	<1	451
REX1615		27	24	145.5	0.2	407	<1	15.7	1	39.8	100	0.7	2.3	16.8	<1	292
REX1616		70	18	69.6	0.4	177	<1	9.2	1	162.5	286	0.8	2.3	28.2	<1	196.0
REX1617		15	30	78.7	<0.2	266	<1	8.4	<1	56.5	72	1.1	1.5	32.8	<1	147.5
REX1618		95	26	105.0	0.5	63	<1	13.1	<1	252	330	0.6	3.3	31.7	<1	273
REX1619		47	34	42.8	0.5	221	<1	5.9	<1	168.0	251	0.5	1.4	13.5	<1	130.0
REX1620		18	18	155.0	<0.2	327	<1	16.7	1	65.7	60	<0.5	2.7	49.6	<1	361



Australian Laboratory Services Pty. Ltd.  
 32 Shand Street  
 Stafford  
 Brisbane QLD 4053  
 Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
 www.alsglobal.com

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**CERTIFICATE OF ANALYSIS PH10173275**

Sample Description	Method Analyte Units LOR	ME-MS23 Yb ppb 0.1	ME-MS23 Zn ppb 10	ME-MS23 Zr ppb 0.1
REX1596		7.5	20	16.3
REX1597		12.3	60	24.4
REX1598		14.5	20	10.8
REX1599		12.0	80	9.9
REX1600		25.4	60	54.6
REX1601		14.1	120	73.7
REX1602		6.7	90	22.1
REX1603		21.1	180	54.1
REX1604		2.1	30	19.6
REX1605		3.0	40	26.8
REX1606		7.1	50	24.8
REX1607		12.0	110	48.0
REX1608		7.3	30	39.0
REX1609		10.7	160	37.6
REX1610		22.5	80	47.9
REX1611		14.1	50	42.5
REX1612		37.9	40	45.7
REX1613		14.3	60	10.7
REX1614		25.3	80	12.4
REX1615		13.6	40	13.5
REX1616		13.6	60	38.7
REX1617		8.8	90	13.4
REX1618		19.7	40	59.4
REX1619		8.4	80	55.6
REX1620		15.3	60	22.9