



Doug Kirby

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Lab Ref WM190615

Client Ref **1901014WM**

Project *

Cost Code NA

Status Final

Received 21/01/19

Reported 08/02/19

Samples 14

First Sample M15PD 9-12

Last Sample MQ11 14-15

Pages 13

Notes

Michael King
Laboratory Manager

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Lab Ref WM190615
 Client Ref **1901014WM**
 Project *
 Reported 08/02/19
 Status Final
 Page Page 2 of 13

ANALYTICAL REPORT

Scheme	ICP40Q	ICP40Q	ICP40Q	ICP40Q	ICP40Q	ICP40Q
Units	PPM	PPM	PPM	PPM	PPM	PPM
Detection Limit	100	5	50	10	100	100
Upper Limit	400000	10000	400000	20000	1000000	200000
	Al	Ba	Ca	Cr	Fe	K
M15PD 9-12	1.78%	164	28.3%	30	1.10%	6190
M15PD 33-36	9660	474	5.67%	<10	2.02%	4890
MQ3 10-11	7740	72	16.8%	<10	1.02%	1410
MQ3 23-24	5070	86	20.3%	<10	7810	2080
MQ15 13-14	1.68%	245	24.9%	130	5.52%	1.05%
MQ15 16-17	1.41%	315	11.8%	45	15.7%	9270
MQ16 6-7	6.58%	234	8.33%	85	5.02%	1.94%
M5P 15-18	4.68%	3840	5.27%	35	3.67%	1.43%
M10P 109-112	1.62%	162	25.9%	25	1.15%	7100
M10P 121-124	2.22%	209	23.2%	20	1.49%	9810
M12P 6-9	1.49%	431	17.8%	30	1.21%	5510
M12P 30-33	6700	291	30.0%	20	5000	4020
MQ11 9-10	2.62%	545	8340	40	9910	7060
MQ11 14-15	3.14%	435	1.26%	35	1.14%	1.01%
D - M10P 109-112	-	-	-	-	-	-

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Lab Ref WM190615
 Client Ref **1901014WM**
 Project *
 Reported 08/02/19
 Status Final
 Page Page 3 of 13

ANALYTICAL REPORT

Scheme	ICP40Q	ICP40Q	ICP40Q	ICP40Q	ICP40Q	ICP40Q
Units	PPM	PPM	PPM	PPM	PPM	PPM
Detection Limit	20	5	50	20	20	10
Upper Limit	1000000	10000	200000	100000	50000	20000
	Mg	Mn	Na	P	S	Ti
M15PD 9-12	2330	210	1630	>10.0%	980	735
M15PD 33-36	3270	2940	685	1.74%	240	440
MQ3 10-11	10.2%	655	1370	470	570	245
MQ3 23-24	11.5%	664	600	260	465	200
MQ15 13-14	6920	444	1750	>10.0%	1100	585
MQ15 16-17	2500	2450	2040	5.61%	1680	720
MQ16 6-7	6400	237	3980	3.70%	1880	3310
M5P 15-18	4630	347	2190	2.57%	745	1790
M10P 109-112	2.22%	194	3320	1050	2320	830
M10P 121-124	1.76%	235	3940	1240	2110	1130
M12P 6-9	1.40%	2280	2740	8.15%	2440	595
M12P 30-33	9200	379	630	1.26%	1040	315
MQ11 9-10	2380	330	1670	4990	950	1640
MQ11 14-15	3350	98	1380	7110	295	1310
D - M10P 109-112	-	-	-	-	-	-

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Lab Ref WM190615
 Client Ref **1901014WM**
 Project *
 Reported 08/02/19
 Status Final
 Page Page 4 of 13

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Scheme	ICP40Q	ICP40Q	ICP40Q	IMS40Q	IMS40Q	IMS40Q
Units	PPM	PPM	PPM	PPM	PPM	PPM
Detection Limit	1	5	1	0.05	1	0.1
Upper Limit	10000	10000	10000	100	1000	1000
	V	Zn	Sr	Ag	As	Be
M15PD 9-12	83	1180	-	1.90	2	8.0
M15PD 33-36	20	2060	-	0.50	7	11.8
MQ3 10-11	10	511	-	0.11	2	1.4
MQ3 23-24	14	519	-	0.13	2	1.6
MQ15 13-14	212	1160	-	0.99	17	6.1
MQ15 16-17	152	2990	-	0.76	38	4.8
MQ16 6-7	236	706	-	0.94	10	6.1
M5P 15-18	167	1390	-	0.88	6	9.3
M10P 109-112	27	66	1160	<0.05	1	0.8
M10P 121-124	37	62	925	<0.05	1	0.9
M12P 6-9	37	1140	-	1.11	13	5.8
M12P 30-33	36	305	-	0.38	5	1.4
MQ11 9-10	78	419	-	0.53	6	6.2
MQ11 14-15	94	654	-	0.31	5	7.0
D - M10P 109-112	-	-	-	-	-	-

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Lab Ref WM190615
 Client Ref **1901014WM**
 Project *
 Reported 08/02/19
 Status Final
 Page Page 5 of 13

ANALYTICAL REPORT

Scheme	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q
Units	PPM	PPM	PPM	PPM	PPM	PPM
Detection Limit	0.1	0.1	0.05	0.05	0.1	2
Upper Limit	1000	1000	1000	1000	2000	2000
	Bi	Cd	Ce	Cs	Co	Cu
M15PD 9-12	0.2	18.6	53.8	1.92	5.9	53
M15PD 33-36	<0.1	7.7	16.7	1.27	261	29
MQ3 10-11	<0.1	1.2	14.7	0.52	12.2	19
MQ3 23-24	<0.1	1.9	8.91	1.42	5.4	16
MQ15 13-14	0.8	5.8	277	2.67	41.9	55
MQ15 16-17	0.1	8.6	68.2	1.19	118	29
MQ16 6-7	0.2	1.9	85.0	10.1	24.8	72
M5P 15-18	0.2	2.4	60.1	9.10	18.0	76
M10P 109-112	<0.1	0.1	19.4	1.61	4.8	11
M10P 121-124	0.1	<0.1	21.7	1.98	41.8	14
M12P 6-9	<0.1	6.4	48.7	0.96	33.0	15
M12P 30-33	<0.1	1.5	16.3	0.63	4.6	9
MQ11 9-10	0.2	0.3	138	2.24	10.4	20
MQ11 14-15	0.1	0.2	64.0	3.10	14.7	33
D - M10P 109-112	-	-	-	-	-	-

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Lab Ref WM190615
 Client Ref **1901014WM**
 Project *
 Reported 08/02/19
 Status Final
 Page Page 6 of 13

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Scheme	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q
Units	PPM	PPM	PPM	PPM	PPM	PPM
Detection Limit	0.2	0.05	0.02	0.05	0.1	0.01
Upper Limit	1000	1000	500	1000	1000	1000
	Ga	Hf	In	La	Li	Lu
M15PD 9-12	5.9	0.75	0.02	41.1	11.6	0.60
M15PD 33-36	3.0	0.22	<0.02	9.77	20.4	0.13
MQ3 10-11	2.1	0.35	<0.02	4.96	6.6	0.12
MQ3 23-24	1.4	0.31	<0.02	3.43	5.7	0.08
MQ15 13-14	9.6	0.98	0.05	250	58.7	4.51
MQ15 16-17	4.9	0.88	<0.02	54.8	12.9	0.82
MQ16 6-7	19.8	4.66	0.06	58.3	38.8	0.65
M5P 15-18	9.9	2.31	0.03	37.9	33.4	1.11
M10P 109-112	4.7	0.87	<0.02	10.4	17.6	0.13
M10P 121-124	5.7	1.32	<0.02	11.3	30.4	0.16
M12P 6-9	5.2	0.47	<0.02	36.2	51.0	0.57
M12P 30-33	2.2	0.41	<0.02	11.9	11.7	0.18
MQ11 9-10	10.2	1.91	0.03	72.4	26.3	0.97
MQ11 14-15	10.9	1.70	0.03	44.0	34.4	0.70
D - M10P 109-112	-	-	-	-	-	-

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Lab Ref WM190615
 Client Ref **1901014WM**
 Project *
 Reported 08/02/19
 Status Final
 Page Page 7 of 13

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Scheme	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q
Units	PPM	PPM	PPM	PPM	PPM	PPM
Detection Limit	0.1	0.1	2	1	0.05	0.1
Upper Limit	1000	1000	2000	2000	1000	1000
	Mo	Nb	Ni	Pb	Rb	Sb
M15PD 9-12	1.2	6.2	34	357	33.3	0.6
M15PD 33-36	4.4	2.4	67	425	27.5	0.5
MQ3 10-11	1.2	4.7	31	36	8.88	0.1
MQ3 23-24	3.5	2.9	31	65	10.7	0.2
MQ15 13-14	5.5	4.1	103	287	44.3	2.4
MQ15 16-17	18.9	4.1	219	499	28.3	1.8
MQ16 6-7	3.0	13.1	99	996	130	1.1
M5P 15-18	1.8	7.3	68	110	79.6	1.0
M10P 109-112	0.9	3.3	17	13	36.1	0.2
M10P 121-124	0.8	4.2	16	10	52.1	0.2
M12P 6-9	2.9	2.0	50	174	26.8	0.4
M12P 30-33	1.2	2.0	31	332	14.8	0.2
MQ11 9-10	2.2	4.3	27	65	41.3	0.8
MQ11 14-15	1.9	2.4	40	37	60.3	0.5
D - M10P 109-112	-	-	-	-	-	-

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 Client Ref **1901014WM**
 Project *
 Reported 08/02/19
 Status Final
 Page Page 8 of 13

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Scheme	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q
Units	PPM	PPM	PPM	PPM	PPM	PPM
Detection Limit	0.2	2	0.3	0.1	0.05	0.05
Upper Limit	1000	1000	1000	1000	1000	1000
	Sc	Se	Sn	Sr	Ta	Tb
M15PD 9-12	4.9	<2	1.5	174	6.54	1.30
M15PD 33-36	1.9	<2	0.6	67.7	2.41	0.27
MQ3 10-11	3.0	<2	0.4	72.3	5.19	0.32
MQ3 23-24	1.9	<2	0.4	96.6	2.80	0.18
MQ15 13-14	12.9	8	1.4	861	3.70	10.3
MQ15 16-17	5.8	2	1.0	233	3.21	1.76
MQ16 6-7	12.2	<2	3.2	170	2.33	1.53
M5P 15-18	6.7	<2	2.0	445	1.53	1.36
M10P 109-112	4.0	<2	4.7	>1000	1.30	0.30
M10P 121-124	4.8	<2	1.2	>1000	2.78	0.30
M12P 6-9	3.7	<2	0.6	336	0.74	1.23
M12P 30-33	1.5	<2	0.4	654	1.47	0.41
MQ11 9-10	9.0	2	1.5	289	0.70	3.50
MQ11 14-15	8.5	<2	1.5	435	0.25	1.32
D - M10P 109-112	-	-	-	-	-	-

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 Client Ref **1901014WM**
 Project *
 Reported 08/02/19
 Status Final
 Page Page 9 of 13

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Scheme	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q
Units	PPM	PPM	PPM	PPM	PPM	PPM
Detection Limit	0.1	0.1	0.1	0.05	0.1	0.5
Upper Limit	1000	1000	1000	1000	1000	1000
	Te	Ti	W	Y	Yb	Zr
M15PD 9-12	<0.1	0.3	0.8	78.8	4.0	27.9
M15PD 33-36	<0.1	1.7	1.3	13.6	0.9	5.0
MQ3 10-11	<0.1	0.2	1.0	10.0	0.8	12.6
MQ3 23-24	<0.1	0.3	0.4	6.94	0.5	11.7
MQ15 13-14	<0.1	0.5	0.8	705	30.5	27.3
MQ15 16-17	<0.1	3.9	1.1	127	5.5	29.9
MQ16 6-7	<0.1	1.0	2.6	81.0	4.5	160
M5P 15-18	<0.1	1.1	1.7	108	6.4	80.7
M10P 109-112	<0.1	0.2	0.9	10.4	0.9	28.8
M10P 121-124	<0.1	0.2	310	12.5	1.0	50.0
M12P 6-9	<0.1	1.0	19.7	90.9	4.0	13.4
M12P 30-33	<0.1	0.2	2.3	26.7	1.2	14.8
MQ11 9-10	<0.1	0.8	2.6	107	6.9	64.0
MQ11 14-15	<0.1	0.5	2.1	77.7	4.7	63.0
D - M10P 109-112	-	-	-	-	-	-

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 Client Ref **1901014WM**
 Project *
 Reported 08/02/19
 Status Final
 Page Page 10 of 13

ANALYTICAL REPORT

Scheme	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q
Units	PPM	PPM	PPM	PPM	PPM	PPM
Detection Limit	0.1	0.1	0.05	0.1	0.05	0.1
Upper Limit	1000	1000	500	1000	500	1000
	Dy	Er	Eu	Gd	Ho	Nd
M15PD 9-12	7.7	5.0	1.71	8.5	1.68	37.4
M15PD 33-36	1.6	1.0	0.43	1.9	0.35	8.4
MQ3 10-11	1.8	1.0	0.41	2.1	0.35	7.3
MQ3 23-24	1.1	0.6	0.22	1.1	0.22	4.0
MQ15 13-14	64.3	42.1	13.7	69.0	14.3	243
MQ15 16-17	10.5	7.0	2.43	12.0	2.36	47.4
MQ16 6-7	9.0	5.5	1.93	10.3	1.90	48.0
M5P 15-18	8.6	6.5	1.89	9.2	2.07	35.5
M10P 109-112	1.7	1.0	0.40	1.9	0.34	9.3
M10P 121-124	1.8	1.1	0.40	2.0	0.37	9.7
M12P 6-9	7.7	5.1	1.53	8.1	1.72	31.2
M12P 30-33	2.5	1.6	0.52	2.6	0.55	10.5
MQ11 9-10	18.7	9.4	4.61	23.2	3.63	93.0
MQ11 14-15	7.9	5.3	1.72	8.8	1.75	39.4
D - M10P 109-112	-	-	-	-	-	-

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 Client Ref **1901014WM**
 Project *
 Reported 08/02/19
 Status Final
 Page Page 11 of 13

ANALYTICAL REPORT

Scheme	IMS40Q	IMS40Q	IMS40Q	IMS40Q	IMS40Q	XRF78S
Units	PPM	PPM	PPM	PPM	PPM	%
Detection Limit	0.05	0.1	0.05	0.05	0.05	0.01
Upper Limit	1000	1000	500	1000	1000	100
	Pr	Sm	Tm	Th	U	Ca
M15PD 9-12	8.66	7.6	0.66	5.78	63.0	28.3
M15PD 33-36	2.03	1.7	0.14	2.88	12.7	-
MQ3 10-11	1.63	1.7	0.14	1.23	1.19	-
MQ3 23-24	0.95	0.9	0.09	1.10	1.17	-
MQ15 13-14	51.8	53.9	5.41	20.4	59.5	25.3
MQ15 16-17	10.7	9.9	0.92	6.56	36.7	-
MQ16 6-7	11.5	9.9	0.74	17.4	30.2	-
M5P 15-18	8.21	7.5	0.97	8.35	14.4	-
M10P 109-112	2.29	1.9	0.14	3.75	1.74	27.9
M10P 121-124	2.44	1.9	0.17	4.72	1.99	-
M12P 6-9	7.01	6.5	0.66	4.03	13.1	-
M12P 30-33	2.35	2.2	0.21	1.76	3.89	29.8
MQ11 9-10	20.5	20.6	1.18	10.2	10.5	-
MQ11 14-15	9.41	8.2	0.76	11.0	14.3	-
D - M10P 109-112	-	-	-	-	-	-

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Lab Ref WM190615
Client Ref **1901014WM**
Project *
Reported 08/02/19
Status Final
Page Page 12 of 13

ANALYTICAL REPORT

Scheme	XRF78S
Units	%
Detection Limit	0.005
Upper Limit	100
	P
M15PD 9-12	12.5
M15PD 33-36	-
MQ3 10-11	-
MQ3 23-24	-
MQ15 13-14	11.1
MQ15 16-17	-
MQ16 6-7	-
M5P 15-18	-
M10P 109-112	-
M10P 121-124	-
M12P 6-9	-
M12P 30-33	-
MQ11 9-10	-
MQ11 14-15	-
D - M10P 109-112	-

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Reported 08/02/19
Status Final
Page Page 13 of 13

DESCRIPTION

ADM01 : Administration Fee
DIG40Q : Four Acid Digest, 0.2g-20ml
DRY10 : Sample Drying, 105°C, <3.5kg
ENV01 : Environmental Levy
ICP40Q : ICPAES after DIG40Q
IMS40Q : ICPMS after DIG40Q
PUL57 : Pulverise, Agate/Ceramic Mortar & Pestle, <100g
SRT01 : Sorting of samples prior to preparation
WGH79 : Sample Weight
XRF78S : XRF, Fusion, Whole Rock