



Australian Laboratory Services Pty. Ltd.

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Accreditation No: 825, Corporate Site No: 818.

CERTIFICATE MI16194132

This report is for 270 RC Drill Chip samples submitted to our lab in Mount Isa, QLD, Australia on 10-NOV-2016.

The following have access to data associated with this certificate:

GREG DUNCAN

To: **DPG RESOURCES**
ATTN: GREG DUNCAN
5 LUKE STREET
THORNLANDS QLD 4164

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.

***** See Appendix Page for comments regarding this certificate *****

Page: 1

Total # Pages: 8 (A - C)

Plus Appendix Pages

Finalized Date: 23-NOV-2016

Account: DPGRES

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-QC	Pulverizing QC Test
LEV-01	Waste Disposal Levy
LEV-02	Remote Lab Surcharge
LOG-22	Sample login - Rcd w/o BarCode
SPL-21	Split sample - riffle splitter
BAG-01	Bulk Master for Storage
PUL-32	Pulverize 1000g to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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Page: 2 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	WEI - 21 Recvd Wt. kg 0.02	PUL - QC Pass75um % 0.01	ME - ICP61 Ag ppm 0.5	ME - ICP61 Al % 0.01	ME - ICP61 As ppm 5	ME - ICP61 Ba ppm 10	ME - ICP61 Be ppm 0.5	ME - ICP61 Bi ppm 2	ME - ICP61 Ca % 0.01	ME - ICP61 Cd ppm 0.5	ME - ICP61 Co ppm 1	ME - ICP61 Cr ppm 1	ME - ICP61 Cu ppm 1	ME - ICP61 Fe % 0.01	ME - ICP61 Ga ppm 10
348151		0.84		<0.5	7.84	<5	440	2.5	<2	0.06	<0.5	7	38	28	2.73	20
348152		0.81		<0.5	7.99	6	460	2.7	<2	0.06	<0.5	8	42	31	2.39	20
348153		0.96		<0.5	8.39	9	450	3.0	<2	0.06	<0.5	9	44	33	2.60	20
348154		1.27		<0.5	8.13	10	420	2.9	<2	0.06	<0.5	9	43	29	2.47	20
348155		1.03		<0.5	8.24	5	470	3.0	2	0.06	<0.5	9	40	29	2.52	20
348156		0.88		<0.5	8.31	7	430	2.8	<2	0.07	<0.5	11	36	27	2.72	20
348157		0.97		<0.5	8.46	9	510	2.7	<2	0.06	<0.5	16	44	35	3.55	20
348158		1.03		<0.5	8.15	7	560	2.8	<2	0.06	<0.5	14	52	39	3.35	20
348159		1.49		<0.5	7.00	10	480	2.3	<2	0.05	<0.5	14	39	31	3.16	20
348160		0.72		<0.5	6.10	11	500	1.9	2	0.04	<0.5	11	45	30	2.72	10
348161		0.95		<0.5	5.43	29	470	1.9	<2	0.07	<0.5	14	30	17	4.00	10
348162		1.42		<0.5	5.37	15	410	1.7	3	0.09	<0.5	7	25	17	5.40	10
348163		0.74		<0.5	6.51	<5	490	2.3	<2	0.11	<0.5	3	20	13	3.68	10
348164		0.69		<0.5	6.53	<5	580	2.4	<2	0.09	<0.5	4	23	15	3.22	20
348165		1.32		<0.5	4.47	<5	520	1.6	<2	0.05	<0.5	11	23	12	2.87	10
348166		1.31		<0.5	4.16	10	610	1.4	<2	0.04	<0.5	18	24	10	4.40	10
348167		0.90		<0.5	6.22	9	960	2.6	<2	0.06	<0.5	15	25	19	3.22	20
348168		1.31		<0.5	4.57	6	720	1.6	<2	0.03	<0.5	13	25	10	1.61	10
348169		1.10	99.2	<0.5	5.13	63	930	1.9	<2	0.04	<0.5	67	28	10	1.87	10
348170		1.06		<0.5	4.70	73	860	1.8	<2	0.04	<0.5	52	22	22	1.59	10
348171		0.90		<0.5	9.16	27	710	4.8	<2	0.12	<0.5	36	16	62	2.18	20
348172		0.79		<0.5	6.13	40	480	2.7	<2	0.06	<0.5	40	23	15	1.38	10
348173		0.95		<0.5	4.13	33	300	1.8	<2	0.04	<0.5	34	18	16	1.11	10
348174		0.85		<0.5	2.71	27	330	0.9	<2	0.03	<0.5	28	18	12	0.93	10
348175		0.96		<0.5	2.47	21	480	1.0	<2	0.03	<0.5	16	24	14	1.34	10
348176		1.18		<0.5	3.30	5	320	1.2	<2	0.03	<0.5	8	22	11	0.78	10
348177		0.77		<0.5	4.31	6	330	1.7	<2	0.03	<0.5	17	25	13	0.85	10
348178		0.98		<0.5	4.55	21	790	2.2	<2	0.04	<0.5	59	31	17	1.61	10
348179		1.05		<0.5	4.48	19	730	2.4	<2	0.04	<0.5	60	28	22	1.22	10
348180		1.03		<0.5	4.06	22	660	1.9	<2	0.04	<0.5	53	27	15	1.55	10
348181		1.05		<0.5	4.14	21	930	2.1	3	0.04	<0.5	55	21	14	1.10	10
348182		1.04		<0.5	4.57	15	720	1.9	<2	0.04	<0.5	34	19	16	1.00	10
348183		1.34		<0.5	4.37	25	570	1.8	<2	0.04	<0.5	28	30	17	1.80	10
348184		0.99		<0.5	4.20	9	580	1.5	<2	0.03	<0.5	14	28	16	1.14	10
348185		1.32		<0.5	3.23	16	610	1.1	<2	0.03	<0.5	10	24	18	1.16	10
348186		1.44		<0.5	2.18	<5	320	0.7	<2	0.02	<0.5	10	16	18	0.94	10
348187		1.04		<0.5	2.23	5	300	0.9	<2	0.02	<0.5	11	19	11	0.78	10
348188		0.52		<0.5	6.05	28	310	2.3	<2	0.04	<0.5	39	38	19	2.35	10
348189		1.13		<0.5	5.96	32	580	2.7	2	0.04	<0.5	21	42	33	2.42	10
348190		1.51		<0.5	5.26	21	790	1.8	<2	0.03	<0.5	20	44	51	1.69	10



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Page: 2 - B
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61 K %	ME-ICP61 La ppm	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 S %	ME-ICP61 Sb ppm	ME-ICP61 Sc ppm	ME-ICP61 Sr ppm	ME-ICP61 Th ppm	ME-ICP61 Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
348151		5.03	40	1.03	462	1	0.06	14	150	5	0.08	<5	13	62	20	0.34
348152		5.14	40	1.05	192	1	0.06	16	170	6	0.12	<5	14	68	20	0.34
348153		5.27	50	1.16	150	<1	0.06	18	190	5	0.14	<5	14	76	20	0.36
348154		5.24	40	1.12	144	1	0.06	19	160	10	0.21	<5	14	64	20	0.35
348155		5.26	40	1.18	150	1	0.06	18	180	16	0.21	<5	13	67	20	0.33
348156		5.47	40	1.16	194	2	0.05	19	180	9	0.42	<5	12	61	20	0.32
348157		5.84	40	1.21	277	4	0.06	27	200	19	1.10	<5	13	65	20	0.33
348158		5.73	40	1.18	236	2	0.07	26	210	17	0.93	<5	14	73	20	0.36
348159		5.01	40	1.01	259	2	0.06	21	180	12	1.05	<5	11	60	20	0.31
348160		4.58	40	0.87	136	1	0.06	18	160	16	1.06	<5	10	59	20	0.28
348161		3.76	30	0.96	7850	2	0.05	18	200	26	0.58	<5	8	73	<20	0.24
348162		3.67	30	1.23	15600	<1	0.04	12	170	17	0.39	<5	7	57	<20	0.22
348163		4.30	30	1.37	11800	<1	0.04	8	250	7	0.12	<5	8	80	<20	0.22
348164		4.69	40	1.18	9550	1	0.04	10	280	9	0.12	<5	8	86	20	0.24
348165		3.11	30	0.85	5760	<1	0.04	12	180	14	0.14	<5	7	56	<20	0.19
348166		2.96	20	0.79	10700	1	0.04	16	220	22	0.28	<5	6	55	<20	0.18
348167		4.32	30	1.14	4820	1	0.04	17	480	16	0.18	<5	9	109	20	0.23
348168		3.15	30	0.81	441	<1	0.04	15	260	15	0.17	<5	7	58	<20	0.20
348169		3.50	30	0.92	132	1	0.04	33	360	14	0.44	<5	8	65	<20	0.23
348170		3.45	30	0.73	229	<1	0.04	26	310	7	0.42	<5	6	62	<20	0.20
348171		5.42	40	1.74	361	<1	0.03	25	350	5	0.25	<5	8	65	40	0.23
348172		3.45	30	0.85	126	1	0.04	25	220	12	0.52	<5	9	54	20	0.25
348173		1.90	20	0.55	104	1	0.02	21	140	14	0.50	<5	7	31	<20	0.18
348174		1.04	20	0.28	90	1	0.02	16	140	12	0.49	<5	5	23	<20	0.13
348175		0.78	10	0.22	70	1	0.02	16	240	24	0.80	<5	4	30	<20	0.11
348176		1.22	20	0.35	53	1	0.02	8	140	14	0.36	<5	6	24	<20	0.16
348177		1.46	30	0.42	53	1	0.02	18	170	15	0.37	<5	7	32	<20	0.20
348178		1.59	30	0.45	75	2	0.02	39	450	36	1.20	<5	8	67	<20	0.21
348179		1.67	30	0.47	65	1	0.03	43	370	13	0.77	<5	8	59	<20	0.21
348180		1.41	20	0.40	70	1	0.02	36	370	37	1.13	<5	7	57	<20	0.19
348181		1.12	20	0.35	53	2	0.02	50	480	18	0.80	<5	6	67	<20	0.18
348182		1.25	30	0.39	67	2	0.02	35	400	17	0.68	<5	7	58	<20	0.19
348183		1.49	30	0.45	71	2	0.02	43	320	24	1.43	<5	8	73	<20	0.21
348184		1.34	30	0.41	65	1	0.02	17	330	16	0.75	<5	7	72	<20	0.19
348185		1.11	20	0.33	59	1	0.02	13	310	11	0.85	<5	6	31	<20	0.17
348186		0.69	10	0.20	66	1	0.02	12	130	22	0.47	<5	4	18	<20	0.10
348187		0.76	10	0.22	54	<1	0.02	12	120	16	0.42	<5	4	19	<20	0.11
348188		1.78	40	0.54	77	2	0.03	33	170	33	1.97	6	12	34	20	0.26
348189		2.66	30	0.57	90	2	0.03	44	290	26	1.97	<5	12	82	<20	0.30
348190		4.09	30	0.33	64	8	0.04	29	320	32	1.46	<5	11	68	<20	0.33



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Page: 2 - C
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 23 - NOV - 2016
 Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		TI	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
348151		10	<10	54	<10	28
348152		<10	<10	56	<10	25
348153		10	<10	60	<10	27
348154		<10	<10	56	<10	27
348155		<10	<10	52	<10	27
348156		<10	<10	46	<10	26
348157		10	<10	55	<10	28
348158		<10	<10	58	<10	30
348159		<10	<10	49	<10	24
348160		<10	<10	44	<10	21
348161		<10	<10	39	<10	21
348162		<10	<10	31	<10	18
348163		<10	<10	29	<10	20
348164		10	<10	32	<10	18
348165		<10	<10	28	<10	21
348166		10	<10	27	<10	21
348167		<10	<10	34	<10	34
348168		<10	<10	32	<10	17
348169		10	<10	38	<10	17
348170		10	<10	31	<10	16
348171		10	<10	29	<10	21
348172		<10	<10	34	<10	22
348173		10	<10	28	<10	19
348174		<10	<10	25	<10	6
348175		<10	<10	25	<10	12
348176		<10	<10	27	<10	7
348177		<10	<10	34	<10	26
348178		10	<10	35	<10	78
348179		10	<10	32	<10	46
348180		<10	<10	32	<10	55
348181		<10	<10	26	<10	55
348182		<10	<10	28	<10	36
348183		10	<10	34	<10	78
348184		10	<10	32	<10	123
348185		<10	<10	33	<10	10
348186		<10	<10	24	<10	5
348187		<10	<10	23	<10	5
348188		<10	<10	50	<10	41
348189		10	<10	62	<10	125
348190		<10	<10	78	<10	19



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Page: 3 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
348191		1.10		<0.5	5.15	19	590	2.5	<2	0.04	<0.5	13	36	24	2.28	10
348192		1.19		<0.5	5.24	28	270	2.5	<2	0.04	<0.5	17	33	23	3.11	10
348193		1.41		<0.5	3.20	18	500	1.7	<2	0.03	<0.5	22	25	11	0.93	10
348194		1.20		<0.5	3.06	22	510	1.5	<2	0.03	<0.5	16	21	12	0.92	10
348195		1.28		<0.5	5.74	15	650	2.4	2	0.03	<0.5	17	23	12	0.70	10
348196		1.22		<0.5	2.97	<5	560	1.4	<2	0.03	<0.5	11	21	14	0.58	10
348197		1.02		<0.5	3.85	5	640	1.9	<2	0.03	<0.5	9	24	17	0.67	10
348198		1.16		<0.5	4.05	25	640	2.0	<2	0.03	<0.5	16	23	17	1.03	10
348199		1.31	99.3	<0.5	3.11	11	640	1.6	<2	0.03	<0.5	10	23	14	0.87	10
348200		1.48		<0.5	2.59	36	410	1.3	<2	0.02	<0.5	30	21	12	1.09	10
348201		1.20		<0.5	3.73	23	360	1.9	<2	0.03	<0.5	43	24	19	1.07	10
348202		1.09		<0.5	3.07	19	420	1.6	2	0.03	<0.5	12	18	24	0.59	10
348203		1.27		<0.5	3.46	13	470	2.0	<2	0.03	<0.5	18	20	17	0.64	10
348204		1.14		<0.5	4.82	<5	630	3.1	2	0.04	<0.5	17	16	23	0.61	10
348205		1.29		<0.5	3.87	14	750	2.3	<2	0.03	<0.5	15	25	15	0.80	10
348206		1.60		<0.5	2.96	39	630	1.7	<2	0.03	<0.5	18	24	11	1.33	10
348207		1.40		<0.5	2.94	15	560	1.6	<2	0.03	<0.5	13	20	12	0.76	10
348208		0.97		<0.5	2.82	45	640	1.6	<2	0.02	<0.5	17	23	13	1.02	10
348209		1.16		<0.5	3.21	49	390	1.5	<2	0.02	<0.5	17	20	18	0.77	10
348210		0.91		<0.5	2.54	<5	130	1.1	<2	0.02	<0.5	2	13	19	0.42	10
348211		0.96		<0.5	2.21	<5	120	1.1	<2	0.02	<0.5	1	13	15	0.49	10
348212		1.02		<0.5	5.92	16	190	1.6	<2	0.02	0.5	12	18	110	0.67	10
348213		1.13		<0.5	1.98	<5	110	0.8	<2	0.02	<0.5	2	16	25	0.50	10
348214		0.76		<0.5	1.85	<5	140	0.8	<2	0.02	<0.5	<1	19	16	0.40	10
348215		0.94		<0.5	1.69	<5	200	0.7	<2	0.02	<0.5	5	13	69	0.43	10
348216		0.80		<0.5	1.65	6	220	0.7	<2	0.02	<0.5	7	14	62	0.50	10
348217		0.76		<0.5	5.34	6	180	1.0	<2	0.02	<0.5	11	53	14	2.78	10
348218		1.03		<0.5	5.92	45	250	1.7	<2	0.01	<0.5	12	107	26	12.10	20
348219		1.02		<0.5	5.55	58	200	1.8	<2	0.06	<0.5	8	124	24	16.35	20
348220		0.66		<0.5	4.64	9	140	1.3	<2	0.05	<0.5	3	51	15	3.06	10
348221		0.89		<0.5	5.41	10	290	2.6	<2	0.06	<0.5	19	43	17	3.31	10
348222		1.03		<0.5	5.70	52	180	1.5	2	0.05	<0.5	10	140	22	14.70	20
348223		0.81		<0.5	3.88	8	180	1.0	<2	0.05	<0.5	4	45	11	3.07	10
348224		1.19		<0.5	4.67	35	260	1.9	<2	0.04	<0.5	11	105	19	11.70	20
348225		0.71		<0.5	6.46	<5	380	1.7	<2	0.04	<0.5	4	41	11	1.51	20
348226		1.06		<0.5	5.91	<5	780	2.2	<2	0.93	<0.5	11	42	24	4.06	20
348227		0.77		<0.5	6.98	<5	840	2.9	<2	0.04	<0.5	7	46	14	1.67	20
348228		0.85		<0.5	5.68	<5	780	2.5	<2	0.03	<0.5	12	41	17	1.84	10
348229		0.76		<0.5	6.35	5	340	2.3	2	0.03	<0.5	6	46	14	1.70	20
348230		0.69		<0.5	7.05	<5	810	2.5	2	0.03	<0.5	41	41	19	2.31	20



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Page: 3 - B
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61 K %	ME-ICP61 La ppm	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 S %	ME-ICP61 Sb ppm	ME-ICP61 Sc ppm	ME-ICP61 Sr ppm	ME-ICP61 Th ppm	ME-ICP61 Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
348191		2.69	30	0.52	83	2	0.04	19	320	26	1.85	<5	9	74	<20	0.24
348192		2.82	30	0.51	79	2	0.04	24	420	30	2.74	<5	9	83	<20	0.23
348193		1.20	20	0.33	56	1	0.02	23	250	25	0.57	<5	7	27	<20	0.16
348194		1.13	20	0.29	113	1	0.02	17	250	24	0.49	<5	6	29	<20	0.14
348195		2.98	30	0.46	56	<1	0.03	15	310	10	0.20	<5	8	66	20	0.20
348196		1.16	20	0.26	43	<1	0.02	10	250	13	0.23	<5	6	33	<20	0.13
348197		1.66	20	0.39	46	1	0.03	10	310	8	0.23	<5	6	66	<20	0.16
348198		1.93	20	0.40	55	1	0.03	15	300	16	0.60	<5	6	55	<20	0.16
348199		1.08	20	0.29	47	1	0.02	12	320	12	0.51	<5	5	51	<20	0.14
348200		0.85	20	0.24	47	1	0.02	22	200	11	0.76	<5	6	35	<20	0.13
348201		1.18	20	0.34	50	1	0.02	31	220	10	0.68	<5	7	64	<20	0.17
348202		0.88	20	0.27	44	1	0.02	12	200	13	0.23	<5	7	28	<20	0.13
348203		1.09	20	0.33	44	1	0.02	14	240	10	0.25	<5	7	31	<20	0.16
348204		1.72	30	0.55	53	<1	0.02	13	330	6	0.12	<5	8	40	<20	0.17
348205		1.99	30	0.37	42	1	0.03	14	370	13	0.45	<5	6	78	<20	0.16
348206		1.47	20	0.28	57	1	0.03	22	300	27	0.96	<5	6	69	<20	0.15
348207		1.40	20	0.27	44	1	0.02	12	240	11	0.40	<5	6	40	<20	0.14
348208		1.24	20	0.27	56	1	0.02	17	300	15	0.67	<5	5	32	<20	0.13
348209		0.85	20	0.25	35	1	0.02	15	210	17	0.51	<5	6	26	<20	0.15
348210		0.58	20	0.17	32	<1	0.02	3	50	4	0.03	<5	4	14	<20	0.11
348211		0.55	10	0.16	34	<1	0.02	3	30	2	<0.01	<5	4	12	<20	0.10
348212		0.69	30	0.21	41	<1	0.02	12	120	21	0.28	7	8	19	20	0.16
348213		0.45	20	0.12	47	1	0.02	3	40	6	0.03	<5	3	13	<20	0.11
348214		0.47	10	0.12	38	1	0.02	3	70	12	0.01	<5	4	12	<20	0.12
348215		0.36	20	0.09	39	<1	0.01	7	120	30	0.06	<5	3	16	<20	0.11
348216		0.34	20	0.09	47	<1	0.01	7	130	33	0.06	<5	3	17	<20	0.10
348217		0.16	30	0.09	488	3	0.05	16	60	14	0.03	<5	9	23	<20	0.38
348218		0.21	30	0.10	571	3	0.05	16	270	38	0.01	<5	12	26	<20	0.31
348219		0.22	20	0.11	382	3	0.13	17	250	38	0.01	<5	11	31	<20	0.26
348220		0.40	20	0.21	136	2	0.22	15	100	21	0.01	<5	9	32	<20	0.33
348221		0.43	40	0.29	455	1	0.24	18	100	19	0.01	<5	10	36	<20	0.36
348222		0.31	40	0.21	360	3	0.17	19	230	29	0.01	<5	12	34	<20	0.24
348223		0.50	20	0.19	159	1	0.11	12	100	11	0.01	<5	7	28	<20	0.24
348224		0.74	30	0.20	588	3	0.11	18	200	26	0.01	<5	9	34	<20	0.21
348225		2.44	50	0.50	134	1	0.09	10	170	10	0.01	<5	10	71	20	0.32
348226		2.28	30	0.87	222	1	0.08	17	160	16	0.02	<5	9	65	<20	0.28
348227		2.58	50	0.51	126	<1	0.07	14	390	14	0.01	<5	11	71	20	0.37
348228		2.35	30	0.38	125	1	0.07	18	140	11	0.03	<5	9	47	20	0.28
348229		2.64	30	0.45	184	1	0.05	12	150	7	0.01	<5	10	50	20	0.31
348230		2.83	40	0.48	630	1	0.05	21	360	14	0.01	<5	10	62	20	0.33



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Page: 3 - C
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 23 - NOV - 2016
 Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Ti	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		10	10	1	10	2
348191		<10	<10	47	<10	21
348192		<10	<10	44	<10	19
348193		<10	<10	28	<10	46
348194		10	<10	22	<10	7
348195		10	<10	29	<10	40
348196		<10	<10	21	<10	9
348197		10	<10	26	<10	71
348198		<10	<10	25	<10	46
348199		10	<10	21	<10	21
348200		10	<10	21	<10	20
348201		<10	<10	25	<10	68
348202		10	<10	22	<10	13
348203		<10	<10	26	<10	18
348204		<10	<10	25	<10	32
348205		10	<10	25	<10	94
348206		<10	<10	22	<10	62
348207		<10	<10	22	<10	58
348208		10	<10	22	<10	51
348209		10	<10	23	<10	137
348210		<10	<10	17	<10	15
348211		<10	<10	17	<10	8
348212		<10	<10	26	<10	37
348213		10	<10	16	<10	5
348214		<10	<10	16	<10	5
348215		<10	<10	14	<10	7
348216		<10	<10	14	<10	9
348217		10	<10	61	10	126
348218		<10	<10	255	<10	14
348219		10	<10	320	<10	13
348220		<10	<10	67	<10	20
348221		<10	<10	83	<10	14
348222		<10	<10	300	<10	16
348223		<10	<10	65	<10	10
348224		<10	<10	204	<10	27
348225		10	<10	45	<10	14
348226		<10	<10	52	<10	23
348227		<10	<10	47	<10	35
348228		<10	<10	39	<10	49
348229		10	<10	43	<10	45
348230		10	<10	41	<10	21



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Page: 4 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	WEI - 21 Recvd Wt. kg 0.02	PUL - QC Pass75um % 0.01	ME - ICP61 Ag ppm 0.5	ME - ICP61 Al % 0.01	ME - ICP61 As ppm 5	ME - ICP61 Ba ppm 10	ME - ICP61 Be ppm 0.5	ME - ICP61 Bi ppm 2	ME - ICP61 Ca % 0.01	ME - ICP61 Cd ppm 0.5	ME - ICP61 Co ppm 1	ME - ICP61 Cr ppm 1	ME - ICP61 Cu ppm 1	ME - ICP61 Fe % 0.01	ME - ICP61 Ga ppm 10
348231		0.74		<0.5	7.97	6	1200	3.1	<2	0.04	<0.5	14	49	27	1.83	20
348232		0.73	99.3	<0.5	8.32	5	570	3.2	2	0.05	<0.5	10	51	24	1.58	20
348233		0.82		<0.5	8.40	<5	580	3.0	<2	0.05	<0.5	8	39	27	1.31	20
348234		0.92		<0.5	8.03	5	400	2.7	<2	0.05	<0.5	9	42	20	1.28	20
348235		0.64		<0.5	7.40	<5	400	2.4	<2	0.04	<0.5	11	47	21	1.29	20
348236		0.82		<0.5	7.71	<5	430	2.4	<2	0.06	<0.5	9	48	20	1.32	20
348237		0.93		<0.5	7.89	10	1080	2.4	2	0.05	<0.5	11	51	24	1.31	20
348238		0.98		<0.5	7.71	5	470	2.5	<2	0.04	<0.5	9	50	26	1.35	20
348239		0.94		<0.5	6.83	<5	450	2.0	<2	0.04	<0.5	8	41	20	1.07	20
348240		1.05		<0.5	7.08	6	490	2.1	3	0.04	<0.5	16	40	22	1.24	20
348241		1.10		<0.5	7.99	<5	3100	2.4	<2	0.04	<0.5	23	34	14	1.16	20
348242		1.25		<0.5	6.82	21	480	1.9	<2	0.05	<0.5	17	30	24	2.76	10
348243		1.10		<0.5	7.17	9	570	2.0	<2	0.04	<0.5	10	43	29	1.66	20
348244		0.98		<0.5	8.46	6	430	2.6	<2	0.05	<0.5	24	39	20	1.25	20
348245		1.12		<0.5	7.54	5	390	2.5	2	0.05	<0.5	4	39	22	3.73	20
348246		1.35		<0.5	7.31	<5	450	2.2	<2	0.04	<0.5	11	41	21	2.41	20
348247		0.77		<0.5	7.49	6	530	2.2	<2	0.04	<0.5	11	40	24	1.60	20
348248		0.70		<0.5	8.09	<5	3540	2.6	<2	0.04	<0.5	14	39	24	1.77	20
348249		0.71		<0.5	8.02	<5	470	2.4	<2	0.04	<0.5	10	34	21	1.87	20
348250		1.13		<0.5	8.72	<5	410	2.7	<2	0.05	<0.5	16	34	22	2.07	20
348251		1.33		<0.5	7.99	5	520	2.5	3	0.05	<0.5	8	36	22	2.13	20
348252		1.13		<0.5	8.37	<5	450	2.8	<2	0.05	<0.5	10	38	25	2.47	20
348253		1.56		<0.5	8.55	<5	600	2.9	2	0.06	<0.5	9	44	25	2.50	20
348254		1.28		<0.5	8.06	7	560	2.9	3	0.05	<0.5	7	44	31	2.35	20
348255		1.35		<0.5	8.36	6	610	3.1	5	0.06	<0.5	9	45	32	2.75	20
348256		1.15		<0.5	8.18	6	740	2.9	3	0.06	<0.5	11	46	50	2.80	20
348257		1.03		<0.5	8.06	8	660	3.0	<2	0.06	<0.5	11	41	29	2.67	20
348258		1.10		<0.5	7.25	7	610	2.6	<2	0.05	<0.5	11	42	28	2.76	20
348259		1.55		<0.5	7.36	11	740	2.6	2	0.05	<0.5	14	42	29	3.19	20
348260		1.48		<0.5	7.50	16	670	2.7	3	0.05	<0.5	18	48	32	3.81	20
348261		1.40		<0.5	7.33	15	540	2.9	2	0.06	<0.5	12	40	39	3.11	20
348262		1.26		<0.5	5.97	12	550	2.2	7	0.04	<0.5	10	42	30	2.56	10
348263		0.91		<0.5	5.81	27	700	2.4	5	0.08	<0.5	15	32	14	4.92	20
348264		1.83		<0.5	5.47	11	560	2.0	2	0.12	<0.5	7	22	24	4.82	10
348265		1.09		<0.5	6.12	10	580	2.5	3	0.10	<0.5	6	23	11	3.41	10
348266		1.18		<0.5	4.89	<5	560	2.0	5	0.22	<0.5	3	18	15	8.14	20
348267		1.24		<0.5	4.70	18	480	1.7	2	0.11	<0.5	8	27	8	5.19	10
348268		1.32	99.2	<0.5	3.80	8	430	1.4	4	0.07	<0.5	17	32	11	4.08	10
348269		1.15		<0.5	5.61	<5	590	2.3	<2	0.07	<0.5	10	31	12	2.55	10
348270		1.08		<0.5	6.68	<5	520	2.7	<2	0.09	<0.5	10	28	21	4.03	20



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Page: 4 - B
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
348231		3.28	50	0.60	148	1	0.05	18	560	11	0.01	<5	13	95	20
348232		3.62	50	0.65	112	1	0.06	17	270	11	0.01	<5	14	73	20
348233		3.86	40	0.72	62	<1	0.05	17	290	12	0.01	<5	12	71	20
348234		3.81	40	0.69	67	1	0.06	17	170	15	0.01	<5	12	63	20
348235		3.84	40	0.62	63	2	0.06	18	160	8	0.01	<5	12	60	20
348236		3.87	40	0.63	69	1	0.06	16	150	9	0.01	<5	12	65	20
348237		3.96	50	0.62	71	1	0.06	19	380	13	0.02	<5	13	94	20
348238		4.20	40	0.65	66	1	0.06	16	180	16	0.03	<5	13	69	20
348239		3.78	40	0.50	54	1	0.06	14	150	14	0.05	<5	10	61	20
348240		4.13	40	0.59	72	1	0.06	19	180	14	0.11	<5	11	69	20
348241		4.98	50	0.71	63	1	0.06	22	160	10	0.16	<5	10	65	20
348242		3.87	40	0.58	80	2	0.04	17	160	11	0.28	9	8	55	20
348243		4.26	40	0.53	65	<1	0.05	11	160	12	0.07	<5	11	67	20
348244		5.07	40	0.74	66	2	0.06	20	140	11	0.12	<5	13	65	20
348245		4.33	40	0.62	84	1	0.05	11	150	9	0.06	<5	11	63	20
348246		4.42	40	0.60	73	<1	0.05	14	170	8	0.09	<5	12	68	20
348247		4.66	40	0.67	77	1	0.06	12	200	10	0.11	<5	12	75	20
348248		4.99	30	0.88	98	1	0.05	19	160	6	0.18	<5	13	66	20
348249		5.17	40	0.88	105	<1	0.06	15	170	9	0.10	<5	11	67	20
348250		5.48	40	1.02	112	1	0.05	17	180	8	0.08	<5	11	67	20
348251		5.33	40	0.96	107	1	0.06	14	250	7	0.08	<5	11	77	20
348252		5.09	40	1.12	123	1	0.06	14	220	8	0.06	<5	14	74	20
348253		5.42	40	1.14	129	1	0.06	15	280	9	0.04	<5	14	90	20
348254		5.14	40	1.07	135	1	0.06	17	270	7	0.15	<5	13	85	20
348255		5.45	30	1.22	151	1	0.06	18	330	3	0.15	<5	14	84	20
348256		5.37	40	1.18	155	2	0.06	20	410	10	0.27	<5	14	94	20
348257		5.45	50	1.17	154	2	0.06	19	370	8	0.31	<5	12	92	20
348258		5.08	40	1.04	160	2	0.06	19	290	7	0.45	<5	11	74	20
348259		5.06	40	1.06	391	3	0.06	22	380	14	0.91	<5	11	88	20
348260		5.26	40	1.12	180	2	0.07	26	300	19	1.46	<5	13	71	20
348261		5.04	40	1.10	574	3	0.06	19	240	10	0.92	<5	12	67	20
348262		4.70	40	0.80	139	1	0.06	19	210	12	0.95	<5	9	56	20
348263		4.09	40	1.04	13250	2	0.05	17	350	34	0.46	9	9	84	20
348264		3.90	30	1.18	22800	<1	0.04	13	260	16	0.28	<5	7	59	<20
348265		4.51	30	1.10	12550	1	0.04	10	290	8	0.13	<5	7	55	<20
348266		3.32	30	1.59	49500	1	0.04	9	320	16	0.11	<5	6	43	<20
348267		3.02	30	1.21	25300	1	0.04	12	220	11	0.20	<5	7	46	<20
348268		2.47	20	0.84	17950	2	0.05	16	170	30	0.29	<5	7	41	<20
348269		3.80	30	0.95	7350	1	0.05	14	280	21	0.19	<5	8	59	<20
348270		4.23	40	1.31	13350	1	0.05	14	250	11	0.09	<5	9	54	20



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Page: 4 - C
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 23 - NOV - 2016
 Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		TI	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
348231		<10	<10	57	<10	20
348232		<10	<10	56	<10	22
348233		<10	<10	47	<10	18
348234		10	<10	47	<10	16
348235		<10	<10	50	<10	18
348236		<10	<10	52	<10	16
348237		<10	<10	60	<10	18
348238		10	<10	55	<10	20
348239		10	<10	45	<10	14
348240		<10	<10	46	<10	13
348241		10	<10	39	<10	11
348242		10	<10	27	<10	15
348243		10	<10	47	<10	15
348244		<10	<10	48	<10	15
348245		10	<10	41	<10	23
348246		10	<10	49	<10	16
348247		10	<10	53	<10	15
348248		<10	<10	51	<10	19
348249		<10	<10	43	<10	18
348250		<10	<10	45	<10	23
348251		<10	<10	43	<10	19
348252		<10	<10	55	<10	22
348253		<10	<10	58	<10	26
348254		<10	<10	57	<10	24
348255		<10	<10	58	<10	28
348256		<10	<10	60	<10	27
348257		<10	<10	50	<10	44
348258		<10	<10	47	<10	22
348259		<10	<10	51	<10	24
348260		<10	<10	55	<10	25
348261		10	<10	54	<10	22
348262		<10	<10	42	<10	19
348263		<10	<10	38	<10	22
348264		<10	<10	31	<10	17
348265		10	<10	28	<10	16
348266		<10	<10	27	<10	16
348267		<10	<10	28	<10	17
348268		<10	<10	28	<10	29
348269		<10	<10	35	<10	28
348270		<10	<10	35	<10	21



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Page: 5 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	WEI - 21 Recvd Wt. kg 0.02	PUL - QC Pass75um % 0.01	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
348271		1.18		<0.5	5.14	7	430	1.9	2	0.04	<0.5	7	34	13	1.59	10
348272		1.21		<0.5	5.27	9	500	2.0	<2	0.04	<0.5	16	30	10	1.77	10
348273		1.28		<0.5	5.22	6	400	2.0	3	0.04	<0.5	3	30	22	1.33	10
348274		0.80		<0.5	7.31	<5	650	3.9	4	0.10	<0.5	7	23	47	3.96	20
348275		1.19		<0.5	5.29	8	390	2.6	4	0.05	<0.5	8	29	6	1.66	10
348276		1.08		<0.5	5.73	8	430	2.8	<2	0.05	<0.5	8	30	9	1.59	10
348277		0.65		<0.5	3.28	6	270	1.5	<2	0.04	<0.5	4	20	10	0.75	10
348278		0.74		<0.5	4.87	18	260	1.9	5	0.04	<0.5	14	34	15	1.79	10
348279		1.02		<0.5	2.68	12	310	1.3	<2	0.03	<0.5	7	25	14	1.76	10
348280		0.89		<0.5	4.31	6	270	2.0	3	0.04	<0.5	3	27	29	0.92	10
348281		0.72		<0.5	4.97	7	330	2.2	3	0.04	<0.5	11	31	15	1.26	10
348282		1.09		<0.5	4.48	34	420	2.3	2	0.04	<0.5	16	33	23	2.47	10
348283		0.98		<0.5	4.80	19	490	2.5	2	0.04	<0.5	8	29	16	1.97	10
348284		1.13		<0.5	4.46	128	340	2.2	3	0.04	<0.5	5	28	18	2.05	10
348285		0.85		<0.5	4.60	14	350	1.8	<2	0.04	<0.5	8	24	15	1.84	10
348286		0.82	98.4	<0.5	6.03	13	450	2.3	2	0.05	<0.5	5	21	30	1.41	10
348287		1.20		<0.5	4.73	17	410	2.4	2	0.04	<0.5	9	32	16	2.01	10
348288		0.94		<0.5	4.93	19	450	2.7	4	0.04	<0.5	9	33	18	1.96	10
348289		0.94		<0.5	4.13	5	300	2.1	<2	0.04	<0.5	6	30	19	1.22	10
348290		0.69		<0.5	2.69	12	220	1.4	<2	0.03	<0.5	3	22	13	1.20	10
348291		1.15		<0.5	3.13	11	240	1.5	<2	0.03	<0.5	6	23	18	1.16	10
348292		1.08		<0.5	6.00	11	460	3.2	<2	0.05	<0.5	8	35	18	2.10	10
348293		0.81		<0.5	5.48	16	520	3.0	<2	0.04	<0.5	10	38	38	2.55	10
348294		0.76		<0.5	6.58	37	680	2.6	3	0.04	<0.5	13	51	56	3.85	10
348295		1.11		<0.5	5.29	30	590	2.4	2	0.05	<0.5	12	42	40	3.73	10
348296		0.73		<0.5	4.85	40	550	2.7	2	0.11	<0.5	9	31	21	6.42	10
348297		0.88		<0.5	4.87	28	550	2.5	<2	0.27	<0.5	8	29	23	5.09	10
348298		0.99		<0.5	3.25	12	340	1.8	<2	0.27	<0.5	7	26	10	5.93	10
348299		0.79		<0.5	3.58	24	350	1.8	<2	0.29	<0.5	8	23	10	5.15	10
348300		0.96		<0.5	5.69	13	440	2.3	2	0.22	<0.5	6	22	10	4.05	10
348301		0.96		<0.5	3.97	17	330	1.9	3	0.15	<0.5	7	22	17	2.66	10
348302		1.17		<0.5	4.15	20	410	1.8	<2	0.18	<0.5	10	25	12	2.91	10
348303		1.07		<0.5	4.18	28	400	1.9	2	0.21	<0.5	6	22	12	4.23	10
348304		1.30		<0.5	4.55	18	480	1.9	2	0.24	<0.5	8	28	13	4.71	10
348305		1.19		<0.5	4.26	21	430	2.1	<2	0.14	<0.5	7	29	16	2.70	10
348306		1.74		<0.5	4.99	16	490	1.7	<2	0.17	<0.5	7	20	11	4.36	10
348307		1.08		<0.5	3.29	7	320	1.6	<2	0.16	<0.5	6	19	11	1.43	10
348308		1.21		<0.5	3.76	7	340	1.7	<2	0.21	<0.5	4	22	14	3.30	10
348309		1.31		<0.5	5.28	6	450	2.5	<2	0.15	<0.5	5	21	12	1.90	10
348310		1.48		<0.5	4.03	13	440	1.9	<2	0.21	<0.5	9	25	12	4.93	10



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Page: 5 - B
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23-NOV-2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61 K %	ME-ICP61 La ppm	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 S %	ME-ICP61 Sb ppm	ME-ICP61 Sc ppm	ME-ICP61 Sr ppm	ME-ICP61 Th ppm	ME-ICP61 Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
348271		3.27	30	0.72	385	<1	0.05	12	180	12	0.12	<5	9	40	<20	0.25
348272		3.28	30	0.83	238	1	0.04	17	220	26	0.29	<5	8	50	<20	0.25
348273		3.59	30	0.71	285	1	0.05	7	130	5	0.04	<5	8	37	<20	0.24
348274		4.63	40	1.56	11850	<1	0.04	12	430	8	0.08	<5	8	101	20	0.23
348275		3.58	40	0.88	739	1	0.04	13	130	8	0.34	<5	8	37	<20	0.24
348276		3.60	40	0.86	287	1	0.04	14	190	16	0.40	7	9	47	<20	0.26
348277		1.55	20	0.36	215	1	0.03	7	110	5	0.26	<5	7	30	<20	0.15
348278		2.23	30	0.47	110	2	0.03	19	100	22	1.10	<5	9	26	<20	0.21
348279		1.18	20	0.28	542	2	0.03	10	140	19	1.04	<5	6	29	<20	0.12
348280		2.28	20	0.50	68	<1	0.04	6	80	5	0.13	<5	10	24	<20	0.20
348281		2.78	30	0.64	84	1	0.04	12	90	14	0.38	<5	10	28	<20	0.24
348282		2.52	20	0.73	109	1	0.04	22	180	37	1.41	<5	9	43	<20	0.21
348283		3.27	30	0.96	106	1	0.04	16	190	22	0.60	<5	7	48	<20	0.22
348284		3.01	30	0.81	101	1	0.04	10	90	9	0.93	<5	7	28	<20	0.21
348285		3.14	20	0.69	387	2	0.03	13	140	16	0.69	<5	7	33	<20	0.19
348286		5.10	40	0.71	81	1	0.04	10	210	11	0.61	<5	8	42	<20	0.23
348287		3.03	30	0.62	86	2	0.04	15	140	18	1.31	<5	8	35	<20	0.22
348288		3.17	30	0.60	93	2	0.04	14	180	16	1.29	<5	8	44	<20	0.22
348289		2.04	20	0.48	82	1	0.03	12	120	13	0.72	<5	7	32	<20	0.19
348290		1.18	20	0.30	99	1	0.03	9	100	7	0.49	<5	5	24	<20	0.13
348291		1.42	20	0.34	148	1	0.03	11	80	15	0.64	<5	6	23	<20	0.14
348292		4.11	40	0.73	104	2	0.04	14	170	20	1.40	<5	10	43	20	0.24
348293		4.01	30	0.80	128	2	0.05	18	180	21	1.50	8	10	44	<20	0.26
348294		6.41	30	0.85	472	5	0.06	26	140	27	2.33	<5	13	40	<20	0.37
348295		4.50	30	0.83	2110	8	0.05	23	160	27	1.62	<5	11	38	<20	0.31
348296		3.81	30	0.84	6590	1	0.05	19	250	25	2.56	<5	8	38	<20	0.22
348297		3.91	20	0.90	6390	1	0.05	14	1060	18	1.27	<5	8	30	<20	0.21
348298		2.35	20	0.86	11450	1	0.03	11	870	20	0.58	<5	6	22	<20	0.14
348299		2.68	20	0.97	9540	1	0.04	14	1010	25	0.50	5	6	22	<20	0.14
348300		5.00	30	1.23	7780	<1	0.04	11	790	10	0.23	<5	8	22	<20	0.19
348301		2.82	20	1.11	2780	<1	0.03	12	550	7	0.26	<5	6	20	<20	0.15
348302		3.32	20	0.91	4720	1	0.04	18	690	22	0.54	<5	7	20	<20	0.16
348303		3.59	20	0.80	7250	1	0.04	12	690	14	0.42	<5	6	20	<20	0.15
348304		4.24	30	0.69	7560	1	0.04	15	770	15	0.74	<5	7	23	<20	0.18
348305		3.65	20	0.72	2710	2	0.04	13	510	10	0.64	<5	6	21	<20	0.17
348306		5.43	20	0.51	6700	1	0.04	12	510	7	0.53	<5	6	19	<20	0.14
348307		2.76	20	0.65	477	1	0.04	9	640	7	0.21	<5	5	19	<20	0.13
348308		3.18	20	0.82	4730	<1	0.03	8	740	6	0.15	<5	6	20	<20	0.14
348309		4.65	30	0.94	1620	<1	0.04	9	520	2	0.09	<5	7	20	<20	0.17
348310		3.60	20	0.74	8640	1	0.04	12	600	10	0.51	<5	7	21	<20	0.16



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Page: 5 - C
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 23 - NOV - 2016
 Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		TI	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
348271		<10	<10	40	<10	18
348272		<10	<10	40	<10	17
348273		<10	<10	38	<10	15
348274		10	<10	30	<10	20
348275		<10	<10	38	<10	19
348276		<10	<10	40	<10	24
348277		<10	<10	25	<10	7
348278		<10	<10	40	<10	11
348279		<10	<10	24	<10	8
348280		<10	<10	34	<10	9
348281		<10	<10	40	<10	11
348282		<10	<10	38	<10	19
348283		<10	<10	31	<10	25
348284		<10	<10	31	<10	16
348285		<10	<10	29	<10	17
348286		<10	<10	31	<10	15
348287		<10	<10	37	<10	16
348288		<10	<10	36	<10	13
348289		<10	<10	34	<10	19
348290		<10	<10	25	<10	14
348291		<10	<10	26	<10	17
348292		<10	<10	41	<10	15
348293		<10	<10	50	<10	25
348294		<10	<10	90	<10	19
348295		<10	<10	73	<10	18
348296		10	<10	40	<10	18
348297		<10	<10	39	<10	17
348298		<10	<10	25	<10	17
348299		<10	<10	24	<10	14
348300		<10	<10	33	<10	13
348301		<10	<10	30	<10	28
348302		<10	<10	29	<10	15
348303		<10	<10	26	<10	15
348304		<10	<10	26	<10	18
348305		10	<10	29	<10	16
348306		<10	<10	22	<10	12
348307		<10	<10	23	<10	12
348308		<10	<10	24	<10	24
348309		<10	<10	28	<10	11
348310		<10	<10	28	<10	15



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Page: 6 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	WEI - 21 Recvd Wt. kg 0.02	PUL - QC Pass75um % 0.01	ME - ICP61 Ag ppm 0.5	ME - ICP61 Al % 0.01	ME - ICP61 As ppm 5	ME - ICP61 Ba ppm 10	ME - ICP61 Be ppm 0.5	ME - ICP61 Bi ppm 2	ME - ICP61 Ca % 0.01	ME - ICP61 Cd ppm 0.5	ME - ICP61 Co ppm 1	ME - ICP61 Cr ppm 1	ME - ICP61 Cu ppm 1	ME - ICP61 Fe % 0.01	ME - ICP61 Ga ppm 10
348311		1.23		<0.5	3.47	29	390	1.6	<2	0.18	<0.5	13	29	10	4.39	10
348312		1.41		<0.5	4.31	7	460	1.8	<2	0.22	<0.5	9	25	12	3.40	10
348313		1.06		<0.5	3.47	7	370	1.6	<2	0.21	<0.5	8	23	15	1.66	10
348314		1.04	99.4	<0.5	2.98	16	330	1.3	5	0.28	<0.5	9	22	15	3.02	10
348315		0.74		<0.5	3.47	<5	370	1.2	2	0.15	<0.5	10	18	8	1.47	10
348316		0.82		<0.5	5.85	13	420	1.6	3	0.09	<0.5	11	17	10	2.30	10
348317		0.70		<0.5	2.58	5	280	1.4	2	0.31	<0.5	7	22	17	4.84	10
348318		1.05		<0.5	3.51	20	360	1.5	2	0.21	<0.5	14	26	12	3.40	10
348319		1.23		<0.5	3.18	<5	360	1.3	<2	0.45	<0.5	8	22	9	2.70	10
348320		1.19		<0.5	3.63	15	390	1.1	2	0.49	<0.5	12	21	10	4.16	10
348321		1.02		<0.5	2.76	28	330	0.9	3	0.37	<0.5	14	22	14	2.01	10
348322		0.83		<0.5	5.12	9	630	0.7	2	0.19	<0.5	9	15	11	1.05	10
348323		1.03		<0.5	3.33	13	390	1.0	3	0.28	<0.5	10	20	11	4.09	10
348324		0.89		<0.5	3.67	14	450	0.9	<2	0.21	<0.5	9	21	16	1.07	10
348325		1.10		<0.5	4.04	12	500	1.0	<2	0.18	<0.5	9	22	13	1.66	10
348326		0.83		<0.5	2.88	12	510	0.7	2	0.66	<0.5	9	18	18	1.08	10
348327		1.19		<0.5	4.34	18	520	1.1	2	0.19	<0.5	14	26	15	1.41	10
348328		1.11		<0.5	3.74	11	490	1.0	<2	0.25	<0.5	10	24	21	1.23	10
348329		1.08		<0.5	3.83	13	520	1.0	4	0.19	<0.5	9	26	17	1.33	10
348330		0.95		<0.5	3.85	18	430	1.0	2	0.14	<0.5	11	27	12	1.32	10
348331		1.10		<0.5	3.53	9	460	1.1	4	0.21	<0.5	7	22	16	1.06	10
348332		0.99		<0.5	3.76	7	460	0.9	<2	0.34	<0.5	13	20	15	0.89	10
348333		0.74		<0.5	4.66	<5	690	1.5	2	0.18	<0.5	7	23	57	1.16	10
348334		1.19		0.9	3.22	41	70	0.8	<2	0.02	<0.5	13	46	33	20.1	10
348335		1.07		0.5	4.95	57	50	1.1	<2	0.01	<0.5	9	75	37	27.0	10
348336		1.12		<0.5	6.34	58	60	1.0	3	0.01	<0.5	5	91	41	21.2	20
348337		0.84		1.5	5.28	45	100	0.8	<2	0.01	<0.5	3	54	33	11.95	10
348338		0.96		1.5	5.13	38	160	0.8	<2	0.01	<0.5	1	34	14	3.63	10
348339		1.19		1.8	3.84	40	160	0.7	<2	0.02	<0.5	1	30	12	3.03	10
348340		1.06		1.6	3.60	24	190	0.8	2	0.01	<0.5	1	28	10	3.24	10
348341		1.33		1.1	5.27	77	300	1.2	<2	0.02	<0.5	2	39	28	5.58	10
348342		0.88		1.6	3.55	23	280	1.1	<2	0.03	<0.5	1	34	12	2.23	10
348343		1.06		1.4	3.10	27	190	1.5	<2	0.03	<0.5	2	29	21	2.39	10
348344		1.39		1.2	3.79	12	200	1.4	<2	0.02	<0.5	1	31	16	1.60	10
348345		0.88		0.8	2.43	7	140	0.8	<2	0.02	<0.5	1	22	12	1.11	10
348346		0.99		1.0	5.10	40	630	1.8	<2	0.01	<0.5	27	37	40	3.11	10
348347		0.89		2.6	4.62	105	1330	3.5	<2	0.01	<0.5	82	39	86	10.80	10
348348		0.98		2.2	3.02	113	4350	4.2	<2	0.02	1.1	301	21	178	17.20	10
348349		1.17		2.5	3.29	42	300	1.4	2	0.02	<0.5	20	22	39	4.34	10
348350		1.01		4.9	3.13	37	460	1.6	2	0.02	<0.5	34	21	63	4.29	10



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Page: 6 - B
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
348311		3.00	20	0.63	6090	1	0.04	18	600	21	0.84	<5	6	22	<20
348312		4.04	20	0.71	5100	<1	0.04	12	770	8	0.26	<5	6	23	<20
348313		2.94	20	0.64	876	1	0.04	11	880	11	0.32	<5	5	22	<20
348314		2.65	20	0.47	4170	1	0.03	13	1090	12	0.46	<5	5	21	<20
348315		3.42	20	0.48	1360	<1	0.03	12	610	4	0.11	<5	4	18	<20
348316		6.63	30	0.48	2420	1	0.04	14	320	10	0.44	<5	6	16	20
348317		2.41	20	0.45	8940	1	0.03	9	1130	8	0.43	<5	5	20	<20
348318		3.31	20	0.52	4030	1	0.04	15	810	26	0.47	<5	6	22	<20
348319		3.17	20	0.43	3210	<1	0.04	7	1910	12	0.40	<5	5	26	<20
348320		4.14	30	0.30	6380	1	0.03	10	2030	21	0.53	<5	5	24	<20
348321		2.85	20	0.32	1395	2	0.04	17	1620	34	0.66	<5	4	22	<20
348322		6.15	30	0.23	236	2	0.04	11	860	19	0.43	<5	5	17	20
348323		3.91	20	0.22	7570	1	0.03	12	1090	24	0.43	<5	4	18	<20
348324		3.95	20	0.28	368	1	0.04	10	920	14	0.43	<5	4	20	<20
348325		4.25	20	0.36	1475	1	0.04	11	740	15	0.47	<5	5	20	<20
348326		3.24	20	0.15	653	1	0.04	11	2930	12	0.46	<5	4	30	<20
348327		4.34	30	0.56	207	1	0.04	14	850	19	0.71	<5	5	22	<20
348328		4.02	20	0.35	210	2	0.04	10	1090	16	0.57	<5	4	19	<20
348329		4.20	20	0.35	808	2	0.04	11	840	15	0.54	<5	5	19	<20
348330		3.84	20	0.49	80	1	0.04	14	630	16	0.64	6	4	19	<20
348331		3.73	20	0.31	69	2	0.04	9	910	12	0.61	<5	4	20	<20
348332		4.46	20	0.19	463	1	0.04	17	1520	5	0.23	5	4	25	<20
348333		5.08	30	0.34	1100	<1	0.04	9	750	4	0.14	<5	5	20	<20
348334		0.15	10	0.09	1495	3	0.01	16	330	18	0.02	<5	6	10	<20
348335		0.15	10	0.11	1240	3	0.01	15	390	25	0.01	<5	10	12	<20
348336		0.19	20	0.09	651	4	0.02	12	340	35	0.02	<5	12	17	<20
348337		0.28	30	0.09	376	3	0.02	11	300	35	0.01	6	8	21	<20
348338		0.44	30	0.09	68	1	0.02	6	330	37	0.02	<5	7	25	<20
348339		0.34	20	0.07	52	2	0.02	10	290	48	0.02	<5	7	26	<20
348340		0.41	30	0.08	69	1	0.02	4	310	50	0.01	<5	6	36	<20
348341		0.44	90	0.09	44	2	0.02	9	830	65	0.03	5	8	71	<20
348342		0.49	50	0.11	57	1	0.02	2	710	74	0.03	5	7	59	<20
348343		0.33	20	0.07	227	2	0.01	3	650	51	0.02	<5	6	33	<20
348344		0.55	30	0.12	74	1	0.02	3	520	45	0.02	<5	7	45	<20
348345		0.31	20	0.07	182	1	0.01	1	350	30	0.01	<5	5	28	<20
348346		0.66	30	0.13	2550	3	0.02	5	620	56	0.01	<5	7	23	<20
348347		0.69	30	0.15	6830	6	0.01	22	1060	63	0.04	<5	8	22	<20
348348		0.33	20	0.13	29300	22	0.04	70	1580	83	0.03	<5	6	22	<20
348349		0.47	20	0.08	1120	3	0.02	23	630	85	0.02	<5	5	35	<20
348350		0.43	20	0.08	1730	3	0.02	31	590	79	0.02	<5	5	32	<20



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Page: 6 - C
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 23 - NOV - 2016
 Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Ti	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		10	10	1	10	2
348311		<10	<10	25	<10	13
348312		<10	<10	26	<10	13
348313		<10	<10	27	<10	12
348314		<10	<10	22	<10	18
348315		<10	<10	21	<10	13
348316		<10	<10	22	<10	10
348317		<10	<10	21	<10	12
348318		<10	<10	24	<10	14
348319		<10	<10	22	<10	11
348320		<10	<10	17	<10	10
348321		<10	<10	18	<10	10
348322		<10	<10	16	<10	7
348323		<10	<10	15	<10	9
348324		<10	<10	20	<10	13
348325		<10	<10	25	<10	11
348326		<10	<10	16	<10	20
348327		<10	<10	32	<10	12
348328		<10	<10	24	<10	11
348329		<10	<10	31	<10	9
348330		10	<10	29	<10	10
348331		<10	<10	23	<10	15
348332		<10	<10	16	<10	40
348333		<10	<10	25	<10	11
348334		<10	<10	72	<10	26
348335		<10	<10	119	<10	16
348336		<10	<10	160	<10	14
348337		<10	<10	81	<10	15
348338		<10	<10	49	<10	6
348339		<10	<10	38	<10	6
348340		<10	<10	32	<10	11
348341		<10	<10	44	<10	8
348342		<10	<10	29	<10	4
348343		<10	<10	29	<10	8
348344		<10	<10	32	<10	5
348345		<10	<10	18	<10	5
348346		10	<10	45	<10	13
348347		30	<10	58	<10	55
348348		90	<10	61	<10	187
348349		<10	<10	39	<10	47
348350		10	10	52	<10	47



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Page: 7 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	WEI - 21 Recvd Wt. kg 0.02	PUL - QC Pass75um % 0.01	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
348351		1.82		3.8	4.10	39	550	1.7	2	0.03	<0.5	37	22	61	4.44	10
348352		1.34		3.2	5.63	28	1400	2.2	<2	0.09	<0.5	62	31	59	4.21	10
348353		1.00	99.4	2.3	6.61	16	370	2.3	<2	0.02	<0.5	17	41	72	2.87	20
348354		1.30		2.8	2.98	<5	470	1.0	2	0.03	<0.5	69	15	33	0.93	<10
348355		0.90		2.4	5.13	14	440	2.1	3	0.02	<0.5	35	30	51	2.62	10
348356		1.22		2.4	5.93	22	430	2.4	4	0.03	<0.5	34	40	69	3.58	10
348357		0.97		2.6	5.67	40	600	7.1	3	0.04	<0.5	51	43	99	5.79	10
348358		1.15		2.8	5.98	59	1430	9.7	3	0.05	<0.5	41	46	101	6.42	10
348359		1.12		1.0	7.32	15	920	4.6	<2	0.05	<0.5	18	52	149	3.69	20
348360		0.86		1.0	7.51	9	1040	4.2	<2	0.05	<0.5	15	55	43	3.83	20
348361		0.72		0.9	5.57	15	690	4.0	2	0.09	<0.5	20	46	44	4.09	10
348362		0.82		1.0	6.95	6	670	5.1	<2	0.05	<0.5	16	52	67	2.75	20
348363		0.71		1.2	4.93	19	1070	6.5	3	0.04	<0.5	17	39	50	4.49	10
348364		1.02		0.8	5.99	16	970	3.3	3	0.17	<0.5	21	52	79	4.30	10
348365		0.89		0.7	5.98	8	770	2.7	<2	1.95	<0.5	16	52	33	3.73	20
348366		1.34		0.7	5.60	<5	870	2.5	3	4.19	<0.5	11	43	31	3.84	10
348367		1.28		0.7	5.82	9	1320	2.5	<2	1.83	<0.5	20	50	36	7.00	10
348368		0.94		0.5	6.20	11	1040	2.2	<2	3.90	<0.5	18	56	35	5.07	20
348369		1.14		0.5	6.72	6	570	1.9	<2	3.30	<0.5	15	63	33	3.62	20
348370		1.01		0.5	7.24	8	840	2.8	4	2.03	<0.5	18	62	29	4.57	20
348371		1.25		<0.5	8.03	18	460	2.9	<2	0.98	<0.5	15	68	46	3.22	20
348372		1.15		<0.5	3.78	32	390	1.0	3	8.72	<0.5	11	31	21	4.86	10
348373		0.98		0.5	7.13	10	370	2.3	2	1.60	<0.5	12	65	31	2.62	20
348374		1.10		<0.5	6.86	8	950	2.3	<2	1.52	<0.5	10	60	28	2.51	20
348375		1.06		<0.5	2.58	<5	190	0.9	<2	11.85	<0.5	4	20	12	3.95	10
348376		0.94		0.5	4.50	<5	270	2.0	<2	6.23	<0.5	4	34	12	3.32	10
348377		0.90		<0.5	6.47	5	330	2.9	<2	3.53	<0.5	11	56	16	3.57	20
348378		1.03	99.2	<0.5	7.81	<5	360	4.0	<2	2.60	<0.5	21	54	14	2.72	20
348379		0.99		0.7	4.29	12	2200	1.1	<2	5.06	<0.5	9	36	35	6.59	10
348380		1.01		0.9	5.73	16	880	2.0	<2	3.39	<0.5	17	51	202	2.33	10
348381		1.10		0.6	6.16	11	3440	3.3	3	1.06	<0.5	18	54	33	2.82	20
348382		0.97		0.7	5.12	12	1340	3.0	2	2.51	<0.5	12	43	33	3.66	10
348383		0.70		0.9	7.33	10	770	6.2	<2	0.42	<0.5	18	63	37	4.19	20
348384		1.07		<0.5	3.00	<5	4330	2.1	<2	0.33	<0.5	4	35	13	8.24	10
348385		1.16		<0.5	4.51	5	440	4.2	<2	0.38	<0.5	8	40	22	7.49	10
348386		1.34		0.6	1.41	25	450	1.0	<2	0.41	<0.5	16	23	19	11.30	<10
348387		1.60		0.5	0.75	13	240	0.6	<2	0.22	<0.5	10	17	14	13.65	<10
348388		1.19		<0.5	0.88	14	90	0.8	2	0.17	<0.5	9	22	13	12.00	<10
348389		1.21		<0.5	0.87	<5	410	0.9	<2	0.12	<0.5	3	20	16	4.32	<10
348390		1.04		0.6	2.64	18	720	2.1	<2	0.20	<0.5	11	33	19	5.15	10



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Page: 7 - B
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61 K %	ME-ICP61 La ppm	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 S %	ME-ICP61 Sb ppm	ME-ICP61 Sc ppm	ME-ICP61 Sr ppm	ME-ICP61 Th ppm	ME-ICP61 Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
348351		0.52	20	0.09	1755	3	0.02	33	770	84	0.06	<5	6	71	<20	0.21
348352		0.89	30	0.15	3200	2	0.02	30	1720	101	0.25	<5	10	294	20	0.26
348353		1.13	40	0.23	843	2	0.02	22	550	120	0.02	<5	10	79	<20	0.33
348354		0.41	20	0.09	1575	2	0.01	14	210	85	0.01	<5	4	35	<20	0.18
348355		0.82	40	0.17	1440	2	0.02	19	430	89	0.02	<5	7	56	<20	0.26
348356		0.96	40	0.20	1365	2	0.02	27	550	121	0.02	<5	9	68	20	0.29
348357		2.52	40	0.38	2010	4	0.03	68	780	92	0.01	<5	9	59	<20	0.25
348358		4.07	30	0.48	5880	8	0.04	76	870	110	0.01	<5	10	58	<20	0.27
348359		5.83	40	0.83	1885	1	0.05	35	480	59	0.01	<5	12	64	<20	0.32
348360		6.23	30	0.85	2200	2	0.05	30	480	41	0.01	<5	12	64	<20	0.33
348361		4.45	30	0.73	1815	2	0.04	30	430	42	0.10	<5	9	49	<20	0.26
348362		5.53	40	0.84	1180	1	0.05	24	350	44	0.01	<5	11	58	<20	0.30
348363		4.38	30	0.48	2990	3	0.04	28	440	63	0.01	<5	8	42	<20	0.22
348364		5.60	30	0.59	2550	2	0.05	31	890	61	0.01	<5	11	53	<20	0.28
348365		5.24	30	1.61	1945	2	0.04	24	750	32	0.01	<5	11	57	<20	0.27
348366		4.69	30	2.86	2700	1	0.04	21	750	30	0.01	<5	10	65	<20	0.25
348367		4.80	30	1.54	3850	2	0.04	27	1000	36	0.01	<5	10	53	<20	0.26
348368		5.37	30	2.72	3260	2	0.05	22	880	30	0.01	<5	12	66	<20	0.28
348369		6.21	30	2.33	1560	1	0.05	22	1010	34	0.01	<5	12	62	<20	0.29
348370		6.11	40	1.84	2120	2	0.05	24	900	34	0.01	<5	12	63	<20	0.31
348371		6.68	40	1.41	601	1	0.06	25	1130	31	0.01	<5	14	70	20	0.35
348372		3.73	20	4.91	2190	1	0.04	18	590	25	0.03	<5	7	60	<20	0.17
348373		6.35	30	1.50	462	1	0.06	28	890	25	0.06	<5	12	68	<20	0.34
348374		5.65	30	1.39	382	1	0.06	24	1030	28	0.06	<5	10	68	<20	0.34
348375		2.55	20	6.58	2770	1	0.03	12	360	23	0.16	<5	5	74	<20	0.12
348376		3.96	30	3.72	1755	1	0.05	14	550	15	0.11	<5	8	65	<20	0.21
348377		5.67	40	2.65	1575	2	0.05	20	860	20	0.30	<5	12	69	<20	0.30
348378		6.37	40	2.24	672	1	0.06	27	860	16	0.17	<5	13	74	20	0.34
348379		4.67	20	3.33	3490	3	0.04	20	910	30	0.49	<5	7	44	<20	0.20
348380		5.89	40	1.99	781	3	0.05	27	1060	54	0.76	<5	9	63	<20	0.26
348381		5.93	40	0.90	896	2	0.05	23	2380	30	0.55	<5	11	60	<20	0.29
348382		4.73	30	1.73	1430	4	0.05	18	850	39	0.75	<5	9	57	<20	0.25
348383		6.04	40	1.14	1385	3	0.06	24	1100	51	0.50	<5	12	69	20	0.33
348384		2.92	20	2.79	3190	3	0.03	12	630	15	0.24	<5	5	92	<20	0.16
348385		4.01	30	2.13	3320	3	0.04	13	810	23	0.17	<5	7	51	<20	0.23
348386		1.39	10	2.37	3990	7	0.02	16	1370	27	0.73	<5	2	16	<20	0.07
348387		0.72	10	2.91	5000	4	0.02	11	600	15	0.45	<5	1	7	<20	0.04
348388		0.78	20	2.46	4220	6	0.02	12	500	9	0.52	<5	2	13	<20	0.05
348389		0.76	10	0.72	1500	3	0.01	8	340	4	0.16	<5	2	9	<20	0.05
348390		2.54	20	0.88	1515	6	0.03	13	800	18	0.87	<5	5	21	<20	0.14



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Page: 7 - C
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 23 - NOV - 2016
 Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Ti	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
348351		<10	10	55	<10	54
348352		10	20	72	<10	50
348353		<10	<10	88	<10	59
348354		<10	<10	23	<10	13
348355		<10	<10	53	<10	56
348356		<10	10	72	<10	58
348357		<10	<10	77	<10	34
348358		10	10	87	<10	37
348359		<10	<10	82	<10	26
348360		<10	<10	84	<10	27
348361		<10	<10	66	<10	25
348362		<10	<10	76	<10	23
348363		<10	<10	60	<10	21
348364		10	<10	80	<10	20
348365		<10	<10	75	<10	20
348366		10	<10	71	<10	22
348367		<10	<10	77	<10	29
348368		<10	<10	82	<10	26
348369		<10	<10	90	<10	19
348370		<10	<10	93	<10	24
348371		<10	<10	100	<10	32
348372		<10	<10	58	<10	20
348373		<10	<10	91	<10	24
348374		<10	<10	92	<10	23
348375		<10	<10	44	<10	17
348376		<10	<10	63	<10	20
348377		10	<10	84	<10	27
348378		10	<10	89	<10	35
348379		<10	<10	56	<10	25
348380		10	<10	75	<10	22
348381		<10	<10	84	<10	23
348382		10	<10	62	<10	17
348383		10	<10	89	<10	21
348384		<10	<10	43	<10	36
348385		<10	<10	65	<10	14
348386		<10	<10	23	<10	10
348387		<10	<10	14	<10	7
348388		<10	<10	12	<10	7
348389		<10	<10	11	<10	5
348390		<10	<10	29	10	7



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Page: 8 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	WEI - 21 Recvd Wt. kg 0.02	PUL - QC Pass75um % 0.01	ME - ICP61 Ag ppm 0.5	ME - ICP61 Al % 0.01	ME - ICP61 As ppm 5	ME - ICP61 Ba ppm 10	ME - ICP61 Be ppm 0.5	ME - ICP61 Bi ppm 2	ME - ICP61 Ca % 0.01	ME - ICP61 Cd ppm 0.5	ME - ICP61 Co ppm 1	ME - ICP61 Cr ppm 1	ME - ICP61 Cu ppm 1	ME - ICP61 Fe % 0.01	ME - ICP61 Ga ppm 10
348391		1.40		0.5	3.07	14	570	2.2	<2	0.16	<0.5	9	27	17	2.83	10
348392		1.00		<0.5	0.47	14	70	0.5	<2	0.21	<0.5	7	24	16	3.58	<10
348393		0.94		<0.5	1.83	11	390	1.5	<2	0.09	<0.5	7	28	15	5.20	<10
348394		0.99		<0.5	0.26	<5	60	<0.5	<2	0.03	<0.5	2	14	10	1.54	<10
348395		1.04		<0.5	4.00	12	710	2.3	2	0.05	<0.5	6	29	9	1.42	10
348396		1.34		0.6	2.33	23	300	1.9	<2	0.20	<0.5	14	25	19	3.47	10
348397		1.20		<0.5	1.64	17	160	1.9	<2	0.13	<0.5	9	30	15	1.89	<10
348398		1.22		<0.5	0.49	10	80	0.7	3	0.19	<0.5	4	29	12	4.76	<10
348399		1.02		<0.5	0.58	21	140	0.6	<2	0.17	<0.5	5	13	10	6.88	<10
348400		0.94		<0.5	0.90	10	170	0.8	<2	0.08	<0.5	10	24	13	3.29	<10
348401		0.87		1.1	3.93	26	610	3.8	<2	0.13	<0.5	18	32	43	3.33	10
348402		1.07		<0.5	3.31	8	370	2.3	<2	0.15	<0.5	16	36	20	3.68	10
348403		1.27		<0.5	5.11	11	430	5.0	2	0.18	<0.5	14	40	63	4.22	10
348404		0.97		0.6	2.72	13	220	2.0	2	0.31	<0.5	11	25	24	2.34	10
348405		0.71		0.8	4.52	11	320	2.6	2	0.19	<0.5	12	30	34	2.71	10
348406		0.77		0.8	3.64	11	370	2.2	2	0.24	<0.5	23	31	34	3.28	10
348407		1.12		1.2	2.64	19	500	2.2	<2	0.49	<0.5	45	22	41	14.20	10
348408		1.36		1.0	3.16	12	490	3.3	<2	8.54	<0.5	31	22	30	5.21	10
348409		0.88	99.5	<0.5	3.95	12	260	4.0	<2	5.79	<0.5	7	26	31	5.17	10
348410		0.94		<0.5	4.14	6	390	3.2	2	0.27	<0.5	10	33	20	3.66	10
348411		0.88		<0.5	1.77	7	1500	2.0	<2	0.35	<0.5	8	15	16	8.54	10
348412		0.89		0.8	2.82	22	550	3.6	<2	0.23	<0.5	40	25	33	7.75	10
348413		0.96		0.7	2.99	19	260	3.3	<2	0.24	<0.5	17	23	24	10.95	10
348414		1.07		<0.5	2.06	9	250	2.0	2	0.27	<0.5	13	22	24	4.53	10
348415		0.73		<0.5	3.88	14	220	3.0	<2	0.11	<0.5	7	33	16	3.00	10
348416		0.89		<0.5	3.68	17	220	2.2	<2	0.11	<0.5	4	29	13	2.63	10
348417		0.67		0.5	4.09	17	210	4.0	<2	0.22	<0.5	6	32	17	9.13	10
348418		0.82		<0.5	1.61	9	300	1.4	2	0.09	<0.5	25	17	24	1.86	<10
348419		0.88		0.6	3.72	17	1160	2.4	<2	0.17	<0.5	15	28	19	4.28	10
348420		1.06		0.6	4.75	41	940	3.6	<2	0.18	<0.5	15	38	30	5.55	10



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Page: 8 - B
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
348391		2.89	20	0.47	710	3	0.03	10	520	17	0.91	<5	4	20	<20
348392		0.41	10	0.53	1200	4	0.01	9	790	9	0.53	<5	1	6	<20
348393		1.65	20	0.88	1690	4	0.02	12	320	14	0.59	<5	3	15	<20
348394		0.24	10	0.16	421	1	0.01	4	80	2	0.12	<5	1	4	<20
348395		4.11	20	0.26	223	2	0.04	6	240	11	0.58	<5	5	25	<20
348396		2.20	10	0.52	899	3	0.03	15	840	18	0.95	<5	4	18	<20
348397		1.38	30	0.34	391	4	0.02	9	560	18	0.36	<5	3	25	<20
348398		0.45	10	0.89	1725	4	0.02	8	610	7	0.18	<5	1	8	<20
348399		0.53	10	1.50	2540	5	0.01	7	290	15	0.42	<5	1	8	<20
348400		0.78	10	0.58	1265	5	0.01	11	180	12	0.28	<5	2	8	<20
348401		3.28	20	0.45	1855	4	0.03	30	530	46	0.47	<5	6	33	<20
348402		2.83	20	0.76	1605	3	0.03	13	270	20	0.38	<5	5	29	<20
348403		4.48	30	1.08	1835	2	0.05	11	430	14	0.67	<5	9	57	<20
348404		2.74	20	0.43	388	3	0.03	12	1160	16	1.14	<5	4	36	<20
348405		4.60	30	0.67	694	2	0.05	11	580	19	0.99	<5	7	46	<20
348406		3.66	20	0.85	1395	3	0.04	16	630	28	0.71	<5	5	39	<20
348407		2.47	20	5.81	6770	5	0.03	23	570	46	0.55	<5	5	28	<20
348408		2.64	20	5.90	3160	3	0.03	20	370	39	0.42	<5	5	70	<20
348409		3.35	20	4.52	2310	1	0.04	13	350	30	0.35	<5	6	54	<20
348410		3.83	30	1.33	992	2	0.04	13	550	23	0.26	<5	6	52	<20
348411		1.72	20	2.96	3000	1	0.03	8	1290	15	0.31	<5	3	31	<20
348412		2.25	20	2.80	3970	2	0.03	18	590	35	0.37	<5	5	35	<20
348413		2.48	20	4.38	3760	3	0.03	16	550	33	0.57	<5	5	34	<20
348414		1.77	20	1.44	1730	2	0.03	10	900	17	0.25	<5	3	26	<20
348415		3.54	20	0.79	688	2	0.04	10	440	17	0.82	5	6	42	<20
348416		3.53	20	0.64	604	1	0.04	8	410	10	0.60	<5	5	39	<20
348417		3.41	20	2.51	4130	<1	0.04	14	350	25	0.66	<5	7	42	<20
348418		1.42	10	0.35	1225	1	0.02	8	320	13	0.16	<5	2	19	<20
348419		3.62	20	0.83	1725	1	0.04	11	630	22	0.87	<5	5	44	<20
348420		4.36	30	0.89	1725	1	0.05	20	740	37	1.89	<5	7	55	<20



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Page: 8 - C
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 23 - NOV - 2016
 Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Ti	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
348391		<10	<10	33	<10	15
348392		<10	<10	9	<10	7
348393		<10	<10	23	10	8
348394		<10	<10	4	<10	3
348395		<10	<10	36	10	7
348396		<10	<10	27	<10	8
348397		<10	<10	33	10	21
348398		<10	<10	14	10	18
348399		<10	<10	11	<10	10
348400		<10	<10	12	10	9
348401		<10	<10	46	10	24
348402		<10	<10	34	<10	14
348403		<10	<10	48	<10	19
348404		<10	<10	30	<10	8
348405		10	<10	47	<10	11
348406		<10	<10	45	<10	11
348407		10	<10	39	<10	15
348408		10	<10	35	<10	21
348409		<10	<10	42	<10	26
348410		<10	<10	48	<10	12
348411		<10	<10	36	<10	12
348412		10	<10	41	<10	14
348413		<10	<10	41	<10	15
348414		<10	<10	28	<10	9
348415		<10	<10	37	<10	9
348416		<10	<10	30	<10	8
348417		<10	<10	43	<10	18
348418		10	<10	17	<10	5
348419		<10	<10	34	<10	9
348420		10	<10	42	<10	10



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Accreditation No: 825, Corporate Site No: 818.

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 23 - NOV - 2016
Account: DPGRES

CERTIFICATE OF ANALYSIS MI16194132

CERTIFICATE COMMENTS

ACCREDITATION COMMENTS

Applies to Method:

NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is Samantha Profke, ICPAES Supervising Chemist
ME-ICP61

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Mount Isa located at Unit 4, 16 Enterprise Rd, Mount Isa, QLD, Australia.

BAG-01

LEV-01

LEV-02

LOG-22

PUL-32

PUL-QC

SPL-21

WEI-21

Applies to Method:

Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. NATA Accreditation does not cover the performance of ALS Brisbane Sample Preparation which is processed at 116 Delta Street, Geebung, QLD 4034, Australia
ME-ICP61