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Finalized Date: 22-DEC-2010
This copy reported on 23-DEC-2010
Account: NATRESNT

CERTIFICATE BR10183409

Project: Litho package & CO3

P.O. No.:

This report is for 8 Drill Core samples submitted to our lab in Brisbane, QLD, Australia on 8-DEC-2010.

The following have access to data associated with this certificate:

SIMON FELL-SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
PUL-32	Pulverize 1000g to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61r	48 element four acid ICP-MS + REEs	
C-CAL15	Inorganic carbon by difference	
C-IR17	Organic carbon by LECO	LECO
ME-XRF12s	Silicates by Fusion XRF	XRF
ME-GRA05	H2O/LOI by TGA furnace	TGA
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO

To: DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENT,
THE
ATTN: SIMON FELL-SMITH
WATER RESOURCES BRANCH
PO BOX 496
PALMERSTON NT 0831

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 *****

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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Sample Description	Method Analyte Units LOR	ME-XRF12s	ME-XRF12s	ME-XRF12s	ME-XRF12s	ME-XRF12s	ME-XRF12s	ME-XRF12s	ME-XRF12s	ME-XRF12s	ME-XRF12s	ME-XRF12s	ME-XRF12s	ME-XRF12s	ME-XRF12s	ME-GRA05
		Al2O3	BaO	CaO	Cr2O3	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SiO2	SrO	TiO2	Total	LOI
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
KDG-001		0.76	<0.01	28.4	<0.01	0.47	0.30	19.85	<0.01	<0.01	0.02	5.85	<0.01	0.04	99.99	43.83
KDG-002		1.88	<0.01	27.1	<0.01	1.28	0.60	18.15	0.02	0.28	0.01	8.81	<0.01	0.07	99.98	41.76
KDG-003		0.03	<0.01	27.9	<0.01	0.38	<0.01	19.05	0.06	<0.01	0.01	9.60	<0.01	<0.01	99.99	42.95
KDG-004		0.12	<0.01	30.1	<0.01	0.11	0.04	21.2	0.02	<0.01	0.04	1.41	<0.01	0.01	99.95	46.88
KDG-005		0.65	<0.01	29.5	<0.01	0.75	0.20	20.9	0.02	<0.01	0.01	1.60	<0.01	0.03	100.05	46.04
KDG-006		3.30	<0.01	25.1	<0.01	4.41	1.07	15.20	0.16	0.26	0.01	11.60	0.04	0.12	99.92	38.64
KDG-007		0.42	<0.01	28.5	<0.01	0.40	0.15	19.70	0.03	<0.01	<0.01	6.54	0.01	0.02	100.00	44.21
KDG-008		0.61	<0.01	28.7	<0.01	0.50	0.34	19.75	<0.01	<0.01	0.02	5.31	0.01	0.03	100.05	44.35



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CERTIFICATE OF ANALYSIS BR10183409

Sample Description	Method Analyte Units LOR	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		As	Bi	Hg	Sb	Se	Te	Ag	Al	Ba	Be	Bi	Ca	Cd	Ce	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.01	0.005	0.05	0.2	0.01	0.01	0.01	10	0.05	0.01	0.01	0.02	0.01	0.1
KDG-001		0.9	0.18	0.016	0.09	<0.2	0.03	0.03	0.48	20	0.19	0.20	20.3	0.06	4.44	2.2
KDG-002		<0.1	0.01	0.005	<0.05	<0.2	0.01	0.02	1.12	60	0.23	0.03	18.65	0.05	7.71	2.8
KDG-003		1.7	0.01	0.032	56.5	<0.2	0.01	0.02	0.03	10	<0.05	0.07	19.35	0.04	0.93	1.1
KDG-004		<0.1	0.01	0.022	16.70	<0.2	0.01	0.02	0.08	10	0.07	0.03	21.2	0.03	0.71	1.2
KDG-005		2.7	0.02	0.069	78.8	<0.2	0.01	0.04	0.42	20	0.12	0.03	21.2	0.02	4.15	1.9
KDG-006		5.8	0.10	0.154	249	<0.2	0.01	0.07	1.99	100	0.53	0.12	17.90	0.03	16.50	6.2
KDG-007		<0.1	0.05	0.005	1.24	<0.2	0.01	<0.01	0.27	30	0.08	0.06	19.85	0.03	2.91	1.5
KDG-008		2.3	0.02	0.022	9.56	0.2	0.02	0.04	0.38	30	0.11	0.03	19.90	0.04	3.37	2.1



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Sample Description	Method Analyte Units LOR	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01
KDG-001		9	0.37	6.3	0.37	1.31	0.16	0.2	0.015	0.28	2.3	2.8	12.35	77	1.27	0.03
KDG-002		7	0.50	4.6	0.89	2.58	0.09	0.7	0.006	0.52	4.0	10.0	11.00	186	0.27	0.23
KDG-003		7	<0.05	5.1	0.28	0.23	0.26	<0.1	<0.005	0.01	0.5	1.4	11.65	460	0.47	0.01
KDG-004		1	<0.05	1.5	0.08	0.34	0.34	<0.1	<0.005	0.04	<0.5	2.2	12.85	189	0.12	0.01
KDG-005		<1	0.25	2.8	0.56	1.12	0.17	0.1	<0.005	0.20	2.1	6.3	12.80	150	0.17	0.02
KDG-006		12	0.74	4.3	3.16	4.90	0.12	0.5	0.011	0.96	8.1	11.3	9.67	1260	0.21	0.22
KDG-007		2	0.07	1.5	0.29	0.79	0.23	0.1	<0.005	0.14	1.3	2.1	12.15	233	0.27	0.01
KDG-008		4	0.22	4.2	0.36	0.99	0.24	0.3	<0.005	0.32	1.6	2.7	12.25	74	1.10	0.01



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KDG-001		0.7	2.1	120	4.0	8.0	0.003	0.21	1.1	0.5	42.0	0.06	0.8	0.022	0.08	2.7
KDG-002		1.2	2.0	60	4.2	16.8	0.002	<0.01	1.7	0.4	64.7	0.10	1.4	0.034	0.07	0.4
KDG-003		0.2	<0.2	70	2.5	0.6	0.002	<0.01	0.2	0.2	50.0	<0.05	<0.2	<0.005	<0.02	0.1
KDG-004		0.2	<0.2	180	1.5	1.3	0.002	<0.01	0.3	0.2	27.7	<0.05	<0.2	<0.005	<0.02	4.0
KDG-005		0.5	0.9	50	2.6	5.4	0.002	0.15	0.8	0.3	28.5	<0.05	0.6	0.011	0.04	1.3
KDG-006		1.6	5.9	60	18.3	28.5	0.002	<0.01	3.5	0.6	403	0.10	2.4	0.061	0.08	1.8
KDG-007		0.4	0.6	40	1.0	3.9	0.002	<0.01	0.5	0.8	77.8	<0.05	0.3	0.008	0.02	0.4
KDG-008		0.5	2.1	90	2.6	6.2	0.005	0.18	0.9	0.3	86.8	0.05	0.7	0.015	0.10	1.7



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KDG-001		6	0.9	2.3	15	6.7	0.32	0.19	0.09	0.42	0.06	0.02	2.1	0.51	0.41	0.06
KDG-002		7	0.2	2.9	20	27.2	0.44	0.25	0.15	0.63	0.09	0.03	3.2	0.82	0.62	0.08
KDG-003		1	0.9	0.8	30	0.6	0.08	0.05	<0.03	0.11	0.02	<0.01	0.5	0.13	0.10	0.01
KDG-004		8	0.4	0.8	3	1.6	0.06	0.05	<0.03	0.07	0.01	<0.01	0.3	0.08	0.06	0.01
KDG-005		4	0.6	2.2	5	3.5	0.28	0.17	0.07	0.36	0.06	0.02	1.7	0.45	0.34	0.05
KDG-006		22	5.9	6.4	35	17.6	1.17	0.55	0.34	1.49	0.21	0.06	6.9	1.76	1.30	0.22
KDG-007		4	0.4	0.8	3	3.2	0.13	0.08	0.04	0.22	0.02	0.01	1.2	0.31	0.22	0.02
KDG-008		10	0.3	1.2	11	11.2	0.22	0.12	0.06	0.30	0.04	0.02	1.5	0.37	0.29	0.04



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Sample Description	Method Analyte Units LOR	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03	C-IR07 C % 0.01	S-IR08 S % 0.01	C-CAL15 C inorga % 0.02	C-IR17 C organi % 0.02
KDG-001		0.02	0.16	11.60	0.14	11.55	0.06
KDG-002		0.03	0.22	11.15	<0.01	11.15	0.02
KDG-003		0.01	0.04	11.30	<0.01	11.30	0.02
KDG-004		<0.01	0.04	12.70	<0.01	12.70	0.03
KDG-005		0.02	0.15	11.75	0.06	11.70	0.02
KDG-006		0.07	0.43	9.97	<0.01	9.94	0.03
KDG-007		0.01	0.06	11.50	<0.01	11.50	0.02
KDG-008		0.02	0.11	11.80	0.10	11.75	0.05



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Method	CERTIFICATE COMMENTS
ME-MS61r	REE's may not be totally soluble in this method.