

RESPONSE TO SUBMISSIONS

Report No.752/42

Appendix 1

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

Knight Piésold
CONSULTING



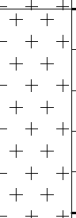


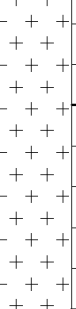
 Knight Piesold Pty Limited
 A.B.N. 67 001 040 419
 Level 3, 46 Ventnor Avenue
 WEST PERTH WA 6005
 Australia

 Dargues Reef Gold Project
 Cortona Resources Ltd
 Tailings Storage Facility
 New South Wales

HOLE: DRTSF2

Sheet 1 of 6

JOB: PE801-00139

TOTAL RECOVERY (%)	SOLID CORE RECOVERY (%)	ROCK QUALITY DESIGNATION (%)	FRACTURE FREQUENCY	GRAPHIC LOG	DEPTH (m)	MATERIAL DESCRIPTION	STRENGTH/CONSISTENCY	WEATHERING	DEFECTS/ADDITIONAL COMMENTS	WATER STRIKES AND SAMPLING
-	-	-	-		0m	SILT/SAND, with clay and gravel, low plasticity, fine, light grey, dry, medium dense. TOPSOIL				
-	-	-	-		0.4m	GRANITE, light cream, orange, brown, extremely weathered, recovered as clay, sandy gravelly with cobbles, trace boulders, low plasticity.				
33	0	NI	NI		1m	GRANITE, light brown, cream and orange, extremely weathered, recovered as sand and gravel. Occasionally clayey or consolidated, low plasticity.	EL	XW	1.0-16.4 m - where visible sub-horizontal to sub-vertical joints, undulating rough and open (probably drilling induced).	
					2m	Poor recovery to 13.65 m.				
					3m	Poor recovery	EL	XW		
20	0	NI	NI		4m					

NOTES:

- Hole advanced by auger to 1.0 m.
- Advanced using water flush drilling technique below 1.0 m.
- Packer tests attempted at 3-6 m, 10-15 m and 20-30 m.
- NI - Non intact.

 CONTRACTOR: Terratest
 MACHINE: Edson Truck Mounted Rig

DATE STARTED: 21/05/2010

NORTHING: 6063183

INCLINATION: -90

 LOGGED BY: SW
 CHECKED BY:

DATE FINISHED: 26/05/2010

EASTING: 749187

DRTSF2

HOLE SIZE: 100 mm

ELEVATION: 692.464

KP BH3 PE801.00139 BHI CCS GP I KP BH1 GDT 30/8/10

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TOTAL RECOVERY (%)	SOLID CORE RECOVERY (%)	ROCK QUALITY DESIGNATION (%)	FRACTURE FREQUENCY	GRAPHIC LOG	DEPTH (m)	MATERIAL DESCRIPTION	STRENGTH/CONSISTENCY	WEATHERING	DEFECTS/ADDITIONAL COMMENTS	WATER STRIKES AND SAMPLING
100	88	80	4	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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KP_PRR_PERTH_00139_BHLOGS_GBL_KP_BHLOGT_308410

KP BH3 PE801.00139 BHI QCS GP I KP BH1 GDT 30/8/10

RESPONSE TO SUBMISSIONS

Report No.752/42

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Dargues Gold Mine

Knight Piésold
CONSULTING

Knight Piésold Pty Limited
A.B.N. 67 001 040 419
Level 3, 46 Ventnor Avenue
WEST PERTH WA 6005
Australia

Dargues Reef Gold Project
Cortona Resources Ltd
Tailings Storage Facility
New South Wales

HOLE: BHTSF3

Sheet 1 of 6

JOB: PE801-00139

TOTAL RECOVERY (%)	SOLID CORE RECOVERY (%)	ROCK QUALITY DESIGNATION (%)	FRACTURE FREQUENCY	GRAPHIC LOG	DEPTH (m)	MATERIAL DESCRIPTION	STRENGTH/CONSISTENCY	WEATHERING	DEFECTS/ADDITIONAL COMMENTS	WATER STRIKES AND SAMPLING
-	-	-	-		0m	CLAY, sandy, gravelly, medium plasticity, grey, dry, with root materials.	L	RS		
					0.2m	TOPSOIL				
					0.5m	SAND, with gravel, non plastic, light brown, dry, loose.				
						ALLUVIUM				
					1	CLAY, sandy, trace gravel, high plasticity, moulded, light orange, grey brown, moist, soil, lensed.				
						ALLUVIUM				
18	0	0	NI		1.5m	CLAY SAND, trace gravel, medium plasticity, light cream, brown, slightly moist, soil, pockets.				
					2					
					2.5m	GRANITE, light brown, cream and orange, extremely weathered, recovered as sand and gravel. Occasionally clayey or consolidated, low plasticity.	MD	XW		
					3					
					3.2m					
					4	Poor recovery to 13.65 m.	EII	SW		
						No recovery (Assessed as weathered granite).				
0	0	0	NR							

NOTES:

- Hole advanced by auger to 1.0 m.
- Advanced from 1.0 m using water flush technique.
- Difficulties drilling due to hole collapse and variable ground.
- Packer tests attempted between 2-6 m, 10-15 m and 20-30 m.
- NI - Non intact.
- NR - No recovery.

CONTRACTOR: Terratest
MACHINE: Edson Truck Mounted Rig

DATE STARTED: 17/05/2010

NORTHING: 6063334

INCLINATION: -90

LOGGED BY: SW
CHECKED BY:

DATE FINISHED: 20/05/2010

EASTING: 749434

HOLE SIZE: 100 mm

ELEVATION: 694.595

BHTSF3

Knight Piesold CONSULTING Knight Piesold Pty Limited A.B.N. 67 001 040 419 Level 3, 46 Ventnor Avenue WEST PERTH WA 6005 Australia							Dargues Reef Gold Project Cortona Resources Ltd Tailings Storage Facility New South Wales		HOLE: BHTSF3 Sheet 2 of 6 JOB: PE801-00139	
TOTAL RECOVERY (%)	SOLID CORE RECOVERY (%)	ROCK QUALITY DESIGNATION (%)	FRACTURE FREQUENCY	GRAPHIC LOG	DEPTH (m)	MATERIAL DESCRIPTION	STRENGTH/CONSISTENCY	WEATHERING	DEFECTS/ADDITIONAL COMMENTS	WATER STRIKES AND SAMPLING
9	7	7	1		6.84m 6.88m	non intact - Gravel GRANITE , coarse grained, crystalline, massive, black grey pink and white with various zones of xenolith alteration.	EII	SW	6.88-7.84 m - sub-vertical joints, 70-90°, undulating, tight, calcite cemented, 120 mm long	
53	26	26	2				EII	SW	7.84-8.07 m - horizontal joints, undulating, smooth, open fresh 8.07-8.32 m - sub-vertical joints, 65°, planar, smooth, open oxidised with weathered granite gravel infill (up to 150 mm) 8.32-8.6 m - sub-vertical joints, 45°, undulating, smooth, open, calcite coated 8.6-8.9 m - sub-horizontal joints, 12°, planar, smooth, open, calcite coated, oxidised with weathered granite infill up to 40 mm	
63	44	23	7				EII	SW	8.9-9.54 m - sub-horizontal joints, 45°, planar, smooth, open, calcite coated 9.54-9.62 m - sub-horizontal joints, 20°, undulating, smooth, open, calcite coated 9.62-9.75 m - sub-horizontal joints, 20°, undulating, smooth, open, silty, infilled with weathered granite gravel up to 130 mm 9.75-9.92 m - Parallel, sub-vertical joints, 75-90°, undulating, tight 9.92-10.21 m - sub-horizontal joints, 15°, undulating, stepped, rough, silty 10.21-10.23 m - Brown,	
81	55	55	4				EII	SW		

KP_BH3_PES01-00139_BH1_QCS_GELI_KP_BH1_GDI_306410

Knight Piesold CONSULTING Knight Piesold Pty Limited A.B.N. 67 001 040 419 Level 3, 46 Ventnor Avenue WEST PERTH WA 6005 Australia					Dargues Reef Gold Project Cortona Resources Ltd Tailings Storage Facility New South Wales			HOLE: BHTSF3 Sheet 3 of 6 JOB: PE801-00139		
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38	23	9	3		11.5m	No recovery - Possible sands and gravels. (Fault)	EII	SW	extremely weathered granite 10.23-10.25 m - sub-horizontal joints, 20°, planar, smooth, open, oxidised with calcite 10.25-10.82 m - sub-horizontal joints, 20°, undulating, smooth, open, fresh 10.82-11.1 m - sub-horizontal joints, 10°, undulating, smooth, open, silty, infilled with weathered granite infill up to 270 mm 11.1-11.2 m - sub-vertical joints, 70°, undulating, smooth, open silty 11.2-13.4 m - sub-horizontal joints, 45°, stepped, smooth, open silty	
					12					
					13					
					13.4m	non intact				
100	92	83	5		13.7m	GRANITE, coarse grained, crystalline, massive, predominantly orange pink. Extremely weathered	VL	XW	13.7-13.74 m - sub-horizontal joints, 10°, undulating, smooth, open, silty 13.74-13.84 m - sub-vertical joints, 50°, planar, smooth, tight, oxidised	
					14					
					14.12m	non intact				
					14.3m	GRANITE, coarse grained, crystalline, massive, black grey pink and white with various zones of xenolith alteration.	EII	SW	13.84-14.12 m - sub-vertical joints, 50°, planar, stepped, tight, oxidised 14.45-14.75 m - sub-horizontal joints, 35°, undulating, smooth, open, calcite coated with weathered granite infill up to 140 mm 14.75-14.81 m - sub-vertical joints, 80°, undulating, smooth, open, oxidised, 240 mm long 14.81-15.02 m - sub-horizontal joints, 40°, planar, smooth, open, oxidised	
100	86	78	7		15		EII	SW	15.02-15.46 m - sub-horizontal joints, 40°, undulating, smooth, open, oxidised, calcite coated 15.46-15.56 m - sub-vertical joints, 60°, planar, smooth, open, oxidised, calcite 15.56-15.81 m - sub-vertical joints, 80°, undulating, smooth, open, oxidised, calcite up to 2 mm, 220 mm long. 15.81-15.87 m - sub-vertical joints, 35°, undulating, tight, oxidised 15.87-16.16 m - sub-vertical joints, 70°, undulating, smooth,	
					16					

PE801-00139 BHTSF3 GEL MP_BHT3.GDT 30/8/10

KP_RR_PEM_00139_BHTSF3_GRL_KP_BHT_GNT_308410

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100	91	78	10	+	18		EII	SW	open, oxidised, calcite, 350 mm long		
				+			VII	DW	16.16-16.31 m - sub-horizontal joints, 20°, planar, smooth, open, slight oxidation		
				+			EII	SW	16.31-16.41 m - sub-horizontal joints, 5°, undulating, smooth, slightly oxidised		
100	93	78	5	+	19	18.79m non intact 19m			16.41-17.0 m - sub-vertical fractures, 70-90°, undulating, tight, cemented		
				+					17.0-17.13 m - sub-vertical fractures, 50°, planar, stepped, smooth, open, oxidised silty		
				+			II	SW	17.13-17.27 m - sub-vertical fractures, 50°, planar, smooth, tight, cemented		
100	91	73	8	+	20				17.27-17.4 m - sub-vertical joints, 60°, planar, smooth, open, oxidised		
				+			EII	SW	17.4-17.43 m - sub-horizontal joints, 60°, planar, smooth, open, oxidised		
				+					17.43-17.51 m - horizontal joints, undulating, smooth, oxidised		
100	91	73	8	+	21				17.51-17.58 m - sub-horizontal joints, 35°, planar, smooth, open, calcite coated, up to 2 mm		
				+					17.58-17.72 m - sub-vertical joints, 55°, undulating, smooth, open, silty		
				+					17.72-17.79 m - sub-vertical joints, 70°, planar, smooth, open, oxidised		
100	91	73	8	+	22				17.79-18.0 m - sub-horizontal joints, 35°, undulating, smooth, open, oxidised		
				+					18.0-18.06 m - sub-horizontal fractures, 30°, undulating, tight		
				+			EII	SW	18.06-18.19 m - sub-horizontal joints, 30°, undulating, smooth, oxidised		
100	91	73	8	+					18.19-18.38 m - sub-vertical fractures, 45°, undulating, smooth, tight		
				+					18.38-18.55 m - sub-vertical joints, 45°, planar, smooth, open, oxidised		
				+					18.55-18.79 m - Multiple multi strike micro fractures		
100	91	73	8	+					19.18-19.45 m - sub-horizontal joints, 10°, undulating, smooth, open, fresh		
				+					19.45-19.74 m - sub-vertical joints, 45°, smooth, planar, open, silty		
				+			EII	SW	19.74-21.18 m - sub-horizontal joints, 5-20°, undulating, stepped, tight, silty		
100	91	73	8	+					21.18-21.36 m - horizontal joints, 5°, planar, rough, open,		
				+							
				+							

CP-BH3-PE801-00139-BH1LOGS-CELL-MP-BH1-GDT-308410

KP_BH3_PES01-00139_BH1_QCS_GELI_KP_BH1_GDI_30/8/10

Appendix 1

Dargues Gold Mine

KP RH3 PE801-00139 RH1 OGS GP.I KP RH1 GDT 30/8/10

KP BH3 PE801.00139 BHI CCS GP I KP BH1 GDT 30/8/10

DARGUES REEF GOLD PROJECT
GEOTECHNICAL INVESTIGATION
TAILINGS STORAGE FACILITY



Plate 1: Borehole DRTSF1 Box 1 (GL – 5.9 m).



Plate 2: Borehole DRTSF1 Box 2 (5.9 – 10.7 m).

DARGUES REEF GOLD PROJECT
GEOTECHNICAL INVESTIGATION
TAILINGS STORAGE FACILITY



Plate 3: Borehole DRTSF1 Box 3 (10.7 – 22.0 m).



Plate 4: Borehole DRTSF1 Box 4 (22.0 – 27.3 m).

DARGUES REEF GOLD PROJECT
GEOTECHNICAL INVESTIGATION
TAILINGS STORAGE FACILITY



Plate 5: Borehole DRTSF2 Box 1 (GL – 17.4 m).



Plate 6: Borehole DRTSF2 Box 2 (17.4 – 21.0 m).

DARGUES REEF GOLD PROJECT
GEOTECHNICAL INVESTIGATION
TAILINGS STORAGE FACILITY



Plate 7: Borehole DRTSF2 Box 3 (21.0 – 24.5 m).



Plate 8: Borehole DRTSF2 Box 4 (24.5 – 27.95 m).

DARGUES REEF GOLD PROJECT
GEOTECHNICAL INVESTIGATION
TAILINGS STORAGE FACILITY



Plate 9: Borehole DRTSF2 Box 5 (27.95 – 29.8 m).

DARGUES REEF GOLD PROJECT
GEOTECHNICAL INVESTIGATION
TAILINGS STORAGE FACILITY



Plate 10: Borehole DRTSF3 Box 1 (GL – 11.4 m).



Plate 11: Borehole DRTSF3 Box 2 (11.4 – 16.8 m).

DARGUES REEF GOLD PROJECT
GEOTECHNICAL INVESTIGATION
TAILINGS STORAGE FACILITY



Plate 12: Borehole DRTSF3 Box 3 (16.8 – 20.4 m).



Plate 13: Borehole DRTSF3 Box 4 (20.4 – 23.8 m).

DARGUES REEF GOLD PROJECT
GEOTECHNICAL INVESTIGATION
TAILINGS STORAGE FACILITY



Plate 14: Borehole DRTSF3 Box 5 (23.8 – 27.5 m).



Plate 15: Borehole DRTSF3 Box 6 (27.5 – 29.6 m).

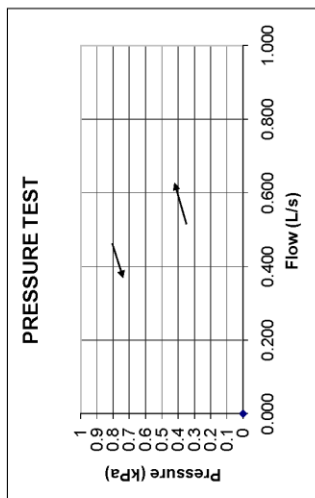
APPENDIX F

Packer Testing Results and Interpretation

Knight Piésold
CONSULTING

Hole No	DRTSF1
Start Interval	2.00
Finish Interval	6.00
Total Length	4.00
Pressure Units	kPa
Volume units	L
Depth to groundwater	10.00
Pressure Gauge height	0.50
Hole dia	100

Pressure kPa	Volume L	Time Interval min	Flow L/s	Permeability m/s
0	0.00	5	0.0000	0.00E+00
0	0.00	5	0.0000	0.00E+00
0	0.00	5	0.0000	0.00E+00
0	0.00	5	0.0000	0.00E+00
0	0.00	5	0.0000	0.00E+00



Test Section Geological Description: Residual Saprolite

interpretation of flow characteristics: No flow

Interpreted insitu permeability (m/s): 0.00E+00

Project: Compass Reef		Borehole no.: DRTSF-1	
Job No: PE801-00139		Ground level: N/A	
Date: 14/07/10	Contractor: Terradot	Test no.: 1	
Operator: SWW		Sheet no.: 1	
Packer type: Singel		Time: 0:00	
Minimum packer pressure: 1440 kPa		Weather: Overcast, cool	
Actual packer pressure: N/A			
Actual borehole diameter: 100 mm			
Type of rock:			

19.00	(metres)
6.00	(metres)
10.00	(metres)
2.00	(metres)
4.00	(metres)
6.00	(metres)
4.00	(metres)
0.50	(metres)

Packer or Lugeon test.

- Depth below ground level to:
 - bottom of casing;
 - bottom of hole at time of test;
 - initial ground water level;
 - top of test section;
 - length of test section
- bottom of test section;
- centre of test section;
- gauge height above ground;

Test record

1st period		Time(min)	0	5	10	15	20	Average flow (l/5 mins)	Water loss (l/min/h)
Sauge pressure	Flowmeter reading (l)								
	Flowmeter intake (l)								
	Water intake (l)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 kPa									
Actual									
2nd period									
Sauge pressure	Flowmeter reading (l)		0	5	10	15	20	Average flow (l/5 mins)	Water loss (l/min/h)
	Flowmeter intake (l)								
	Water intake (l)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
40 kPa									
Actual									
3rd period									
Sauge pressure	Flowmeter reading (l)		0	5	10	15	20	Average flow (l/5 mins)	Water loss (l/min/h)
	Flowmeter intake (l)								
	Water intake (l)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 kPa									
Actual									
4th period									
Sauge pressure	Flowmeter reading (l)		0	5	10	15	20	Average flow (l/5 mins)	Water loss (l/min/h)
	Flowmeter intake (l)								
	Water intake (l)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
40 kPa									
Actual									
5th period									
Sauge pressure	Flowmeter reading (l)		0	5	10	15	20	Average flow (l/5 mins)	Water loss (l/min/h)
	Flowmeter intake (l)								
	Water intake (l)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 kPa									
Actual									

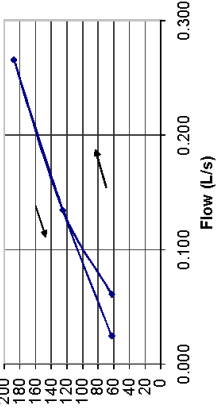
Remarks:

- 1 Test abandoned, packers damaged

Hole No.	DRTSFI
Start interval	1000
End interval	500
Pressure units	kPa
Volume units	L
Depth to groundwater	0.00
Pressure Gauge height	0.50
Hole dia	100

Pressure	Volume	Time interval	Flow	Permeability
kPa	L	min	L/s	m/s
62.5	7.33	5	0.0244	5.21E-07
125	40.33	5	0.1344	1.48E-06
187.5	79.67	5	0.2666	1.98E-06
125	40.33	5	0.1344	1.48E-06
62.5	15.53	5	0.0511	1.26E-06

PRESSURE TEST



Test Section Geological Description: Residual Saprolite

Interpretation of flow characteristics: No flow
Interpreted in situ permeability (m/s): 1.36E-06

Project: Dargues Reef

Job No: P531 00139

Date	15/5/10
Core length	1.00
Operator	SWA
Sheet no.	1
Time	0.00
Weather	Clear dry cold

Borehole no.	DRTSFI
Ground level	N/A
Pressure	1558 kPa
Depth to groundwater	0.00
Pressure Gauge height	0.50
Hole dia	100

9.00 (metres)
15.00 (metres)
10.00 (metres)
5.00 (metres)
15.00 (metres)
12.50 (metres)
0.50 (metres)

Packer or Lugon test.

- Depth below ground level to
- bottom of casing
- top of test section
- length of test section
- bottom of test section
- centre of test section
- gauge height above ground

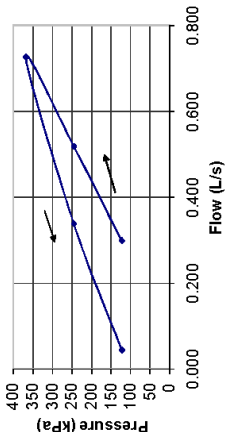
Test record

1st period	Time (min)	0	5	10	15	20	Average flow (0.6 m/s)	Water loss (mm/min)
Gauge pressure	Flowmeter reading (l)	23136.0	23143.0	23151.0	23158.0	7.0	-23158.0	0.3
Actual	Water intake (l)	7.0	8.0	7.0	7.0	7.0	-23158.0	0.3
2nd period	Time (min)	0	5	10	15	20	Average flow (0.6 m/s)	Water loss (mm/min)
Gauge pressure	Flowmeter reading (l)	23256.0	23263.0	23271.0	23278.0	40.3	-23278.0	1.6
Actual	Water intake (l)	42.0	39.0	40.0	40.0	40.3	-23278.0	1.6
3rd period	Time (min)	0	5	10	15	20	Average flow (0.6 m/s)	Water loss (mm/min)
Gauge pressure	Flowmeter reading (l)	23529.0	23536.0	23544.0	23551.0	79.7	-23551.0	3.2
Actual	Water intake (l)	84.0	79.0	76.0	76.0	79.7	-23551.0	3.2
4th period	Time (min)	0	5	10	15	20	Average flow (0.6 m/s)	Water loss (mm/min)
Gauge pressure	Flowmeter reading (l)	23766.0	23773.0	23781.0	23788.0	40.3	-23788.0	1.6
Actual	Water intake (l)	42.0	41.0	38.0	38.0	40.3	-23788.0	1.6
5th period	Time (min)	0	5	10	15	20	Average flow (0.6 m/s)	Water loss (mm/min)
Gauge pressure	Flowmeter reading (l)	23915.0	23922.0	23930.0	23937.0	18.3	-23937.0	0.7
Actual	Water intake (l)	19.0	18.0	18.0	18.0	18.3	-23937.0	0.7

Remarks:
1 Packer leaking water at start of test so packer pressure increased to 2200kPa
2 Water pump failure during 2nd period. Test started again from 23255 litres.

3
4

Pressure hPa	Volume L	Time Interval min	Flow L/s	Permeability m/s
122.5	13.33	5	0.0444	5.02E-07
245	101.67	5	0.3389	1.95E-06
367.5	218.00	5	0.7267	2.81E-06
245	155.67	5	0.5189	2.99E-06
122.5	89.67	5	0.2989	3.37E-06



Interpreted in situ permeability (m/s): 2.32E-06

Borehole no.:	ORTSF1
Ground level	N/A
Test no.	1
Sheet no.	1
Time:	0:00
Weather	Clear, dry, cold

Remarks:	1 2 3 4 5 6 7 8
1 Packer leaking water at start of test so packer pressure increased to 2200kPa	
2	
3	
4	

Remarks:

¹ Packer leaking water at start of test so packer pressure increased to 2200kPa

20

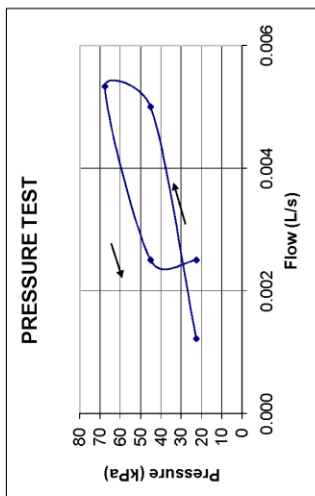
7

Appendix 1

Dargues Gold Mine

Borehole no.:	DRTSF2
Ground level:	N/A
Test no.	1
Sheet no.	1
Time:	0:00
Weather:	Overcast, damp

Pressure kPa	Volume L	Time Interval min	Flow L/s	Permeability m/s
22.5	0.37	5	0.0012	9.50E-08
45	1.50	5	0.0050	2.13E-07
67.5	1.60	5	0.0063	1.57E-07
45	0.75	5	0.0025	1.07E-07
22.5	0.75	5	0.0025	9.94E-07



West Section Geological Description: Residual Saprolite

Interpretation of flow characteristics: No flow

Interpreted insitu permeability (m/s): 1.53E-07

Project:	Camurus Reef
Job No:	FE201-00139
Depth below ground level to:	1.00 (metres)
bottom of casing:	6.00 (metres)
bottom of hole at time of test:	0.00 (metres)
initial ground water level:	0.00 (metres)
top of test section:	3.00 (metres)
bottom of test section:	6.00 (metres)
centre of test section:	4.50 (metres)
gauge height above ground:	0.50 (metres)
Contractor:	Terratec
Operator:	SUVV
Packer type:	Sarge
Minimum packer pressure:	2000 kPa
Actual packer pressure:	2200 kPa
Diameter of hole:	100 mm
Type of rock:	

Test record

[illegible]

Remarks:

12

4 3

Packer or Lugon test.

Depth below ground level to:
..bottom of casing:
..bottom of hole at time of test:
..initial ground water level:
..top of test section:
..length of test section:
..bottom of test section:
..bottom of hole at time of test:
..gauge height above ground:

Project: **Dargues Reef**
Job No: **P501-00759**

Date: **18/05/10**
Contractor: **Teranga**
Operator: **SWM**
Packer type: **Shim**
Minimum packer pressure: **1595** kPa
Actual packer pressure: **N/A**
Diameter of packer: **100** mm
Type of rock: **100**

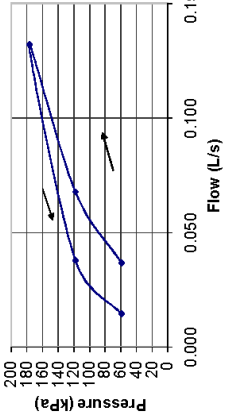
Flowmeter reading (l): **13.00** (metres)
Water intake (l): **14.30** (metres)
Flowmeter reading (l): **9.30** (metres)
Water intake (l): **5.00** (metres)
Flowmeter reading (l): **11.80** (metres)
Water intake (l): **11.80** (metres)
Flowmeter reading (l): **0.50** (metres)
Water intake (l): **0.50** (metres)

1st period	Time (min)	5	10	15	20	Average flow (l/s)	Water loss (mm/min)
Gauge pressure	Flowmeter reading (l)	25934.0	26003.0	26007.0	26007.0	4.3	0.2
Actual	Water intake (l)	5.0	4.0	4.0	26007.0		
2nd period	Time (min)	5	10	15	20	Average flow (l/s)	Water loss (mm/min)
Gauge pressure	Flowmeter reading (l)	26017.0	26040.0	26051.0	26051.0	11.3	0.5
Actual	Water intake (l)	12.0	11.0	11.0	26051.0		
3rd period	Time (min)	5	10	15	20	Average flow (l/s)	Water loss (mm/min)
Gauge pressure	Flowmeter reading (l)	26100.0	26140.0	26160.0	26160.0	33.7	1.6
Actual	Water intake (l)	39.0	40.0	40.0	26160.0		
4th period	Time (min)	5	10	15	20	Average flow (l/s)	Water loss (mm/min)
Gauge pressure	Flowmeter reading (l)	26195.0	26219.0	26233.0	26233.0	20.3	0.8
Actual	Water intake (l)	24.0	14.0	23.0	26233.0		
5th period	Time (min)	5	10	15	20	Average flow (l/s)	Water loss (mm/min)
Gauge pressure	Flowmeter reading (l)	26269.0	26290.0	26290.0	26290.0	11.0	0.4
Actual	Water intake (l)	11.0	11.0	11.0	26291.0		
Remarks:	1 2 3 4						

Hole No.	DRFS3
Start interval	9.30
Finish interval	14.30
Total length	5.00
Pressure units	kPa
Volume units	L
Depth to groundwater	3.00
Pressure gauge height	0.50
Hole dia	100

Pressure	Volume	Time interval	Flow	Permeability
59	L	min	L/s	m/s
59	4.33	5	0.0144	2.29E-07
118	11.33	5	0.0278	3.92E-07
118	20.33	5	0.0521	6.05E-07
118	20.33	5	0.0528	6.05E-07
59	11.00	5	0.0367	5.65E-07

PRESSURE TEST



Test Section Geological Description: Residual Saprolite

Interpretation of flow characteristics: No flow
Interpreted test permeability (m/s): 5.37E-07

Appendix 1

Dargues Gold Mine

Borehole no.:	DRTSF3
Ground level:	N/A
Test no.	1
Sheet no.	1
Time:	0:00
Weather:	Misty, dry, 0°

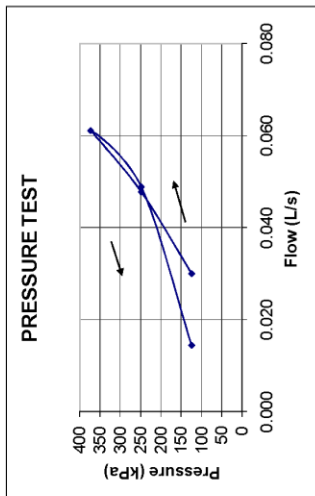
Project:	Dargues Reef
Job No:	PE801-001139
Date:	20/6/10
Contractor:	Terratec
Operator:	SJW
Jack type:	Single
pr pressure:	18.12 kPa
pr pressure:	2200 kPa
meter of hole:	mm
type of rock:	100

19.00	(metres)
29.60	(metres)
3.00	(metres)
20.00	(metres)
29.60	(metres)
24.80	(metres)
22.40	(metres)
0.50	(metres)

Packer or Lugeon test.

- Depth below ground level to:
 - .bottom of casing;
 - .bottom of hole at time of test;
 - .initial ground water level;
 - .top of test section;
 - .length of test section
 - .bottom of test section;
 - .centre of test section;
 - .gauge height above ground;

Pressure kPa	Volume L	Time Interval min	Flow L/s	Permeability m/s
124	4.33	5	0.0144	1.35E-07
248	14.67	5	0.0489	2.57E-07
372	18.33	5	0.0611	2.23E-07
248	14.33	5	0.0478	2.51E-07
124	9.00	5	0.0300	2.81E-07



Test Section Geological Description: Residual Saprolite

interpretation of flow characteristics: No flow

Interpreted insitu permeability (m/s): 2.30E-07

Test record									
1st period	Time(min)	0	5	10	15	20	Average flow (l/s mins)	Water loss (l/min/m)	
	Flowmeter reading (l)	26302.0	26307.0	26311.0	26315.0			4.3	0.2
	Water intake (l)		5.0	4.0		-26315.0			
2nd period	Time(min)	0	5	10	15	20	Average flow (l/s mins)	Water loss (l/min/m)	
	Flowmeter reading (l)	26330.0	26345.0	26360.0	26374.0			14.7	0.6
	Water intake (l)		15.0		14.0	-26374.0			
3rd period	Time(min)	0	5	10	15	20	Average flow (l/s mins)	Water loss (l/min/m)	
	Flowmeter reading (l)	26370.0	26397.0	26415.0	26434.0			18.3	0.8
	Water intake (l)		18.0	18.0	19.0	-26434.0			
4th period	Time(min)	0	5	10	15	20	Average flow (l/s mins)	Water loss (l/min/m)	
	Flowmeter reading (l)	26438.0	26463.0	26467.0	26481.0			14.3	0.6
	Water intake (l)		15.0	14.0	14.0	-26481.0			
5th period	Time(min)	0	5	10	15	20	Average flow (l/s mins)	Water loss (l/min/m)	
	Flowmeter reading (l)	26485.0	26494.0	26503.0	26512.0			9.0	0.4
	Water intake (l)		9.0	9.0	9.0	-26512.0			
Remarks:									

APPENDIX G

Test Pit Logs and Photographs

Knight Piésold
CONSULTING

RESPONSE TO SUBMISSIONS

Report No.752/42

Appendix 1

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

Knight Piesold
CONSULTING

Knight Piesold Pty Limited
A.C.N. 001 040 419
Level 3, 46 Ventnor Avenue
WEST PERTH WA 6005
Australia

Dargues Reef Gold Project
Cortona Resources Ltd
Tailings Storage Facility
New South Wales

TEST PIT NO.: **KPTP01**

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	ML		SAND , silty, gravelly, trace clay, low plasticity, light, grey brown, <u>dry</u> , medium dense, sand is fine. TOPSOIL	
0.5	GM		0.4m SAND and GRAVEL , with cobbles, trace clay, low plasticity, light cream orange brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Sand is fine/coarse. Gravel is fine. Becoming non plastic after 2.0 m.	
1.0				
1.5				BULK
2.0				
2.5				
3.0				BULK
3.5				
4.0				
4.5				BULK
5.0				
5.5			5.5m Test pit KPTP01 end of machine reach at 5.5 m.	
NOTES: 1. No seepage. 2. Large samples taken at 0.5 to 2.0 m, 2.0 to 4.0 m and 4.0 to 5.5 m.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 4/05/2010 NORTHING: 6063350 m MACHINE: SH200 DATE PROFILED: 4/05/2010 EASTING: 749131 m LOGGED BY: SW EXCAVATION SIZE: 1.2 x 1 x 5.5 ELEVATION: m CHECKED BY:				

<div>Knight Piésold CONSULTING <i>Knight Piesold Pty Limited</i> <i>A.C.N. 001 040 419</i> <i>Level 3, 46 Ventnor Avenue</i> <i>WEST PERTH WA 6005</i> <i>Australia</i></div>			<div>Dargues Reef Gold Project Cortona Resources Ltd Tailings Storage Facility New South Wales</div>		<div>TEST PIT NO.: KPTP02 <i>Sheet 1 of 1</i></div>	
					<div>JOB: PE801-00139</div>	
DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION			SAMPLE TYPE
0.0	ML		SAND, silty, with gravel, trace clay, low plasticity, light grey brown, <u>dry</u> , medium dense. TOPSOIL Sand is fine.			
0.5	SC		SAND, gravelly, with clay and cobbles, low plasticity, light cream orange brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Sand is fine / coarse. Gravel is fine. Becoming non plastic with trace clay from 3.0 m.			
1.0						
1.5						
2.0						
2.5						
3.0			SAND / GRAVEL, with cobbles, cream orange brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock)			BULK
3.5						
4.0						
4.5						
5.0						BULK
5.5			Test pit KPTP02 end of machine reach at 5.5 m.			
<div>NOTES: 1. No seepage. 2. Large samples taken at 0.5 to 2.0 m, 2.0 to 4.0 m and 4.0 to 5.5 m. 3. Vertical clay vein noted in centre of pit 0.0 to 5.5 m (200 mm thick).</div>						
CONTRACTOR: Braidwood Earthmoving MACHINE: SH200		DATE EXCAVATED: 4/05/2010 DATE PROFILED: 4/05/2010 EXCAVATION SIZE: 1.2 x 1 x 5.5		NORTHING: 6063303 m EASTING: 749114 m ELEVATION: m		
LOGGED BY: SW CHECKED BY:						

KP_TP_PE801-00139_TP_LOGS.GPJ KP_TP_GDT 30/8/10

RESPONSE TO SUBMISSIONS

Report No.752/42

Appendix 1

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

Knight Piesold
CONSULTING


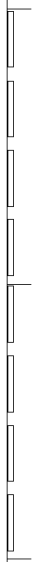
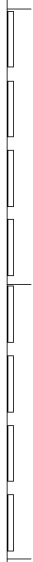
Knight Piesold Pty Limited
A.C.N. 001 040 419
Level 3, 46 Ventnor Avenue
WEST PERTH WA 6005
Australia

Dargues Reef Gold Project
Cortona Resources Ltd
Tailings Storage Facility
New South Wales

TEST PIT NO.: **KPTP03**

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	ML		SAND , silty, with gravel, trace clay, low plasticity, light grey brown, <u>dry</u> , medium dense. TOPSOIL Sand is fine.	
0.5	SW		SAND , gravelly, with cobbles, trace clay and boulders, low plasticity, light cream brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Sand is fine / coarse. Becoming very dense from 3.0 m.	
1.0				
1.5				
2.0				
2.5				
3.0				
3.5			Test pit KPTP03 refusal at 3.5 m.	
4.0				
4.5				
5.0				
5.5				
NOTES: 1. No seepage. 2. Large samples at 0.5 to 2.0 m and 2.0 to 3.5 m.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 6/05/2010 NORTHING: 6063253 m MACHINE: SH200 DATE PROFILED: 6/05/2010 EASTING: 479110 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 3.5 ELEVATION: m CHECKED BY:				

KP_TP_PES01-00139_TP_LOGS.GPJ KP_TP_GDT 30/8/10

<i>Knight Piésold</i> CONSULTING <small>Knight Piesold Pty Limited A.C.N. 001 040 419 Level 3, 46 Ventnor Avenue WEST PERTH WA 6005 Australia</small>			Dargues Reef Gold Project Cortona Resources Ltd Tailings Storage Facility New South Wales		TEST PIT NO.: KPTP04 <i>Sheet 1 of 1</i>																								
JOB: PE801-00139																													
DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE																									
0.0	ML		0.5m SAND , silty, with gravel, trace clay, low plasticity, light grey brown, <u>dry</u> , medium dense. TOPSOIL Sand is fine.	BULK																									
0.5	GM					CLAY SAND , gravelly, with cobbles, trace boulders, low plasticity, light orange grey brown, <u>dry</u> , very stiff, lensed. GRANITE (Extremely weathered rock) Sand is fine / coarse. Gravel is fine.																							
1.0																													
1.5																													
2.0																													
2.5				BULK																									
3.0																													
3.5																													
4.0																													
4.5			4.5m Test pit KPTP04 end of machine reach at 4.5 m.																										
5.0																													
5.5																													
NOTES: 1. No seepage. 2. Large samples taken at 0.5 to 2.0 m and 2.0 to 4.5 m.																													
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">CONTRACTOR:</td> <td style="width: 20%;">Braidwood Earthmoving</td> <td style="width: 20%;">DATE EXCAVATED:</td> <td style="width: 20%;">5/05/2010</td> <td style="width: 20%;">NORTHING:</td> <td style="width: 20%;">6063215 m</td> </tr> <tr> <td>MACHINE:</td> <td>SH200</td> <td>DATE PROFILED:</td> <td>5/05/2010</td> <td>EASTING:</td> <td>749122 m</td> </tr> <tr> <td>LOGGED BY:</td> <td>SW</td> <td>EXCAVATION SIZE:</td> <td>4 x 1 x 4.5</td> <td>ELEVATION:</td> <td>m</td> </tr> <tr> <td>CHECKED BY:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	5/05/2010	NORTHING:	6063215 m	MACHINE:	SH200	DATE PROFILED:	5/05/2010	EASTING:	749122 m	LOGGED BY:	SW	EXCAVATION SIZE:	4 x 1 x 4.5	ELEVATION:	m	CHECKED BY:					
CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	5/05/2010	NORTHING:	6063215 m																								
MACHINE:	SH200	DATE PROFILED:	5/05/2010	EASTING:	749122 m																								
LOGGED BY:	SW	EXCAVATION SIZE:	4 x 1 x 4.5	ELEVATION:	m																								
CHECKED BY:																													

KP_TP_PE801-00139_TP LOGS.GPJ_KP_TP_GDT_30/8/10

RESPONSE TO SUBMISSIONS

Report No.752/42

Appendix 1

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

Knight Piésold
CONSULTING

Knight Piésold Pty Limited
A.C.N. 001 040 419
Level 3, 46 Ventnor Avenue
WEST PERTH WA 6005
Australia

Dargues Reef Gold Project
Cortona Resources Ltd
Tailings Storage Facility
New South Wales

TEST PIT NO.: KPTP05

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	ML		SAND , with clay and gravel, low plasticity, light grey, <u>dry</u> , medium dense. TOPSOIL Sand is fine.	BULK
0.5	CL		CLAY , sandy gravelly, with cobbles, trace boulders, low plasticity, light cream orange brown, stiff. GRANITE (Extremely weathered rock)	
1.0	GW		SAND GRAVEL , cobbly, trace boulders, non plastic, light cream brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Becoming very dense from 2.5 m.	
1.5				BULK
2.0				
2.5			2.6m Test pit KPTP05 refusal at 2.6 m.	
3.0				
3.5				
4.0				
4.5				
5.0				
5.5				
NOTES: 1. No seepage. 2. Large samples at 0.4 to 1.2 m and 1.2 to 2.2 m.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 7/05/2010 NORTHING: 6063180 m MACHINE: SH200 DATE PROFILED: 8/05/2010 EASTING: 749101 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 2.6 ELEVATION: m CHECKED BY:				

KP_TP_PES01-00139_TP_LOGS.GPJ KP_TP_GDT 30/8/10

<i>Knight Piésold</i> CONSULTING <small>Knight Piesold Pty Limited A.C.N. 001 040 419 Level 3, 46 Ventnor Avenue WEST PERTH WA 6005 Australia</small>			Dargues Reef Gold Project Cortona Resources Ltd Tailings Storage Facility New South Wales		TEST PIT NO.: KPTP06 <i>Sheet 1 of 1</i> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> JOB: PE801-00139 </div>																								
DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION		SAMPLE TYPE																								
0.0	ML		SAND , silty gravelly, trace clay, low plasticity, light grey brown, <u>dry</u> , medium dense. TOPSOIL Sand is fine.		BULK																								
0.5	CL		0.4m CLAY SAND , gravelly, with cobbles, trace clay and boulders, low plasticity, light yellow brown, <u>dry</u> , stiff, lensed. GRANITE (Extremely weathered rock) Grey glei fissures noted with root material.																										
1.0	SW		0.9m SAND GRAVEL , trace clay, low plasticity, light cream brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Sand is fine / coarse. Becoming very dense from 2.5 m.																										
1.5					BULK																								
2.0																													
2.5					BULK																								
3.0			3m Test pit KPTP06 refusal at 3.0 m.																										
3.5																													
4.0																													
4.5																													
5.0																													
5.5																													
NOTES: 1. No seepage. 2. Large samples at 0.3 to 0.9 m, 0.9 to 2.0 m and 2.0 to 3.0 m.																													
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">CONTRACTOR:</td> <td style="width: 20%;">Braidwood Earthmoving</td> <td style="width: 20%;">DATE EXCAVATED:</td> <td style="width: 20%;">6/05/2010</td> <td style="width: 20%;">NORTHING:</td> <td style="width: 20%;">6063137 m</td> </tr> <tr> <td>MACHINE:</td> <td>SH200</td> <td>DATE PROFILED:</td> <td>7/05/2010</td> <td>EASTING:</td> <td>749201 m</td> </tr> <tr> <td>LOGGED BY:</td> <td>SW</td> <td>EXCAVATION SIZE:</td> <td>3 x 1 x 3</td> <td>ELEVATION:</td> <td>m</td> </tr> <tr> <td>CHECKED BY:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	6/05/2010	NORTHING:	6063137 m	MACHINE:	SH200	DATE PROFILED:	7/05/2010	EASTING:	749201 m	LOGGED BY:	SW	EXCAVATION SIZE:	3 x 1 x 3	ELEVATION:	m	CHECKED BY:					
CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	6/05/2010	NORTHING:	6063137 m																								
MACHINE:	SH200	DATE PROFILED:	7/05/2010	EASTING:	749201 m																								
LOGGED BY:	SW	EXCAVATION SIZE:	3 x 1 x 3	ELEVATION:	m																								
CHECKED BY:																													

KP_TP_PE801-00139_TP_LOGS.GPJ KP_TP_GDT 30/8/10

RESPONSE TO SUBMISSIONS

Report No.752/42

Appendix 1

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

Knight Piesold
CONSULTING

Knight Piesold Pty Limited
A.C.N. 001 040 419
Level 3, 46 Ventnor Avenue
WEST PERTH WA 6005
Australia

Dargues Reef Gold Project
Cortona Resources Ltd
Tailings Storage Facility
New South Wales

TEST PIT NO.: **KPTP07**

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	ML		SAND , silty gravelly, trace clay, low plasticity, light grey brown, <u>dry</u> , medium dense. TOPSOIL Sand is fine.	
0.5	CL		0.4m CLAY SAND , gravelly, with cobbles, trace boulders, low plasticity, light yellow brown, <u>dry</u> , stiff, lensed. GRANITE (Extremely weathered rock) Grey glei fissures noted with root material.	BULK
1.0	SW		0.9m SAND GRAVEL , trace clay, low plasticity, light cream brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Sand is fine / coarse. Becoming very dense from 2.5 m.	BULK
1.5				BULK
2.0				BULK
2.5				BULK
3.0			3m Test pit KPTP07 refusal at 3.0 m.	
3.5				
4.0				
4.5				
5.0				
5.5				
NOTES: 1. No seepage. 2. Large samples at 0.3 to 0.9 m, 0.9 to 2.0 m and 2.0 to 3.0 m.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 6/05/2010 NORTHING: 6063135 m MACHINE: SH200 DATE PROFILED: 6/05/2010 EASTING: 749251 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 3 ELEVATION: m CHECKED BY:				

KP_TP_PES01-00139_TP_LOGS.GPJ KP_TP_GDT 30/8/10

Knight Piésold CONSULTING Knight Piésold Pty Limited A.C.N. 001 040 419 Level 3, 46 Ventnor Avenue WEST PERTH WA 6005 Australia		Dargues Reef Gold Project Cortona Resources Ltd Tailings Storage Facility New South Wales		TEST PIT NO.: KPTP08 Sheet 1 of 1
				JOB: PE801-00139
DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	ML		SAND , silty gravelly, trace clay, low plasticity, light grey brown, <u>dry</u> , medium dense. TOPSOIL Sand is fine.	BULK
0.5	CL		CLAY SAND , gravelly, low plasticity, light yellow brown, <u>slightly moist</u> , stiff, lensed. GRANITE (Extremely weathered rock) Grey glei fissures with root material noted.	
1.0	SW		SAND , gravelly, with cobbles, trace clay and boulders, low plasticity, light cream brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Sand is fine / coarse. Becoming very dense from 3.0 m.	BULK
1.5				BULK
2.0				
2.5				BULK
3.0				
3.3			Test pit KPTP08 refusal at 3.3 m.	
3.5				
4.0				
4.5				
5.0				
5.5				
NOTES: 1. No seepage. 2. Large samples at 0.3 to 1.0 m, 1.0 to 2.0 m and 2.0 to 3.0 m.				
CONTRACTOR: Braidwood Earthmoving MACHINE: SH200		DATE EXCAVATED: 6/05/2010 DATE PROFILED: 6/05/2010		NORTHING: 6063137 m EASTING: 749301 m
LOGGED BY: SW CHECKED BY:		EXCAVATION SIZE: 3 x 1 x 3.3		ELEVATION: m

KP_TP_PE801-00139_TP LOGS.GPJ KP_TP_GDT 30/8/10

RESPONSE TO SUBMISSIONS

Report No.752/42

Appendix 1

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

Knight Piesold
CONSULTING

Knight Piesold Pty Limited
A.C.N. 001 040 419
Level 3, 46 Ventnor Avenue
WEST PERTH WA 6005
Australia

Dargues Reef Gold Project
Cortona Resources Ltd
Tailings Storage Facility
New South Wales

TEST PIT NO.: **KPTP09**

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	ML		SAND , silty, with gravel, trace clay, low plasticity, light grey brown, <u>dry</u> , medium dense. TOPSOIL Sand is fine.	
0.5	CL		CLAY , sandy gravelly, with cobbles, trace boulders, low plasticity, dark cream yellow, <u>slightly moist</u> , stiff. GRANITE (Extremely weathered rock, very sandy)	
1.0	SW		SAND GRAVEL , with cobbles, trace clay and boulders, low plasticity, light cream brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Sand is fine / coarse. Becoming non plastic and very dense from 2.8 m.	
1.5				BULK
2.0				
2.5				BULK
3.0			Test pit KPTP09 refusal at 3.0 m.	
3.5				
4.0				
4.5				
5.0				
5.5				
NOTES: 1. No seepage. 2. Large samples at 0.3 to 0.7 m, 0.7 to 2.0 m and 2.0 to 3.0 m.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 7/05/2010 NORTHING: 6063155 m MACHINE: SH200 DATE PROFILED: 7/05/2010 EASTING: 749357 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 3 ELEVATION: m CHECKED BY:				

KP_TP_PES01-00139_TP_LOGS.GPJ KP_TP_GDT 30/8/10

<i>Knight Piésold</i> CONSULTING <small>Knight Piesold Pty Limited A.C.N. 001 040 419 Level 3, 46 Ventnor Avenue WEST PERTH WA 6005 Australia</small>			Dargues Reef Gold Project Cortona Resources Ltd Tailings Storage Facility New South Wales		TEST PIT NO.: KPTP10 <i>Sheet 1 of 1</i> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> JOB: PE801-00139 </div>																								
DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION		SAMPLE TYPE																								
0.0	ML		SAND , silty, with gravel, trace clay, low plasticity, light grey brown, medium dense. TOPSOIL Sand is fine.																										
0.5	CL		0.4m	CLAY SAND , gravelly, with cobbles, trace boulders, low plasticity, mottled cream orange brown, <u>dry</u> , stiff, lensed. GRANITE (Extremely weathered rock) Grey glei fissures noted with root material.	BULK																								
1.0	SW		0.6m	SAND , gravelly, with cobbles, trace clay and boulders, low plasticity, light cream brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Sand is fine / coarse. Becoming very dense from 2.7 m.	BULK																								
1.5																													
2.0																													
2.5					BULK																								
3.0		3m	Test pit KPTP10 refusal at 3.0 m.																										
3.5																													
4.0																													
4.5																													
5.0																													
5.5																													
NOTES: 1. No seepage. 2. Large samples at 0.4 to 0.6 m, 0.6 to 2.0 m and 2.0 to 3.0 m.																													
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">CONTRACTOR:</td> <td style="width: 20%;">Braidwood Earthmoving</td> <td style="width: 20%;">DATE EXCAVATED:</td> <td style="width: 20%;">7/05/2010</td> <td style="width: 20%;">NORTHING:</td> <td style="width: 20%;">6063191 m</td> </tr> <tr> <td>MACHINE:</td> <td>SH200</td> <td>DATE PROFILED:</td> <td>7/05/2010</td> <td>EASTING:</td> <td>749425 m</td> </tr> <tr> <td>LOGGED BY:</td> <td>SW</td> <td>EXCAVATION SIZE:</td> <td>3 x 1 x 3</td> <td>ELEVATION:</td> <td>m</td> </tr> <tr> <td>CHECKED BY:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	7/05/2010	NORTHING:	6063191 m	MACHINE:	SH200	DATE PROFILED:	7/05/2010	EASTING:	749425 m	LOGGED BY:	SW	EXCAVATION SIZE:	3 x 1 x 3	ELEVATION:	m	CHECKED BY:					
CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	7/05/2010	NORTHING:	6063191 m																								
MACHINE:	SH200	DATE PROFILED:	7/05/2010	EASTING:	749425 m																								
LOGGED BY:	SW	EXCAVATION SIZE:	3 x 1 x 3	ELEVATION:	m																								
CHECKED BY:																													

KP_TP_PE801-00139_TP LOGS.GPJ KP_TP_GDT 30/8/10

RESPONSE TO SUBMISSIONS

Report No.752/42

Appendix 1

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

Knight Piésold
CONSULTING

Knight Piésold Pty Limited
A.C.N. 001 040 419
Level 3, 46 Ventnor Avenue
WEST PERTH WA 6005
Australia

Dargues Reef Gold Project
Cortona Resources Ltd
Tailings Storage Facility
New South Wales

TEST PIT NO.: KPTP11

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	ML		SAND , silty gravelly, trace clay, low plasticity, light grey brown, <u>dry</u> , medium dense. TOPSOIL Sand is fine.	BULK
0.5	SM		SAND , gravelly, with silt, non plastic, light yellow brown, <u>dry</u> , medium dense. MADE GROUND (Possible fill material) Sand is fine / coarse.	
1.0				
1.5	CL		CLAY , sandy, with silt, low plasticity, mottled orange grey brown, <u>dry</u> , very stiff. ALLUVIUM / COLLUVIUM	BULK
2.0	CI		CLAY , sandy, with silt, trace gravel, medium plasticity, dark grey, <u>dry</u> , stiff. ALLUVIUM	BULK
2.5				
3.0				
3.5			Test pit KPTP11 end of machine reach at 3.4 m.	
4.0				
4.5				
5.0				
5.5				
NOTES: 1. No seepage. 2. Large samples at 0.4 to 1.4 m, 1.4 to 2.1 m and 2.1 to 3.4 m.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 5/05/2010 NORTHING: 6063139 m MACHINE: SH200 DATE PROFILED: 5/05/2010 EASTING: 749081 m LOGGED BY: SW EXCAVATION SIZE: 4 x 1 x 3.4 ELEVATION: m CHECKED BY:				

KP_TP_PES01-00139_TP_LOGS.GPJ KP_TP_GDT 30/8/10

Knight Piesold CONSULTING Knight Piesold Pty Limited A.C.N. 001 040 419 Level 3, 46 Ventnor Avenue WEST PERTH WA 6005 Australia					
Dargues Reef Gold Project Cortona Resources Ltd Tailings Storage Facility New South Wales					
TEST PIT NO.: KPTP12 Sheet 1 of 1					
JOB: PE801-00139					
DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	
0.0	ML		SAND , silty, trace gravel, non plastic, light grey brown, <u>dry</u> , medium dense. TOPSOIL Sand is fine.		
0.3	CL		CLAY SAND , silty, with gravel, trace cobbles and boulders, low plasticity, light mottled orange grey brown, <u>dry</u> , stiff, lensed. GRANITE (Extremely weathered rock) Becoming very stiff from 2.5 m.	BULK	
0.5					
1.0					
1.5					
2.0					
2.5				BULK	
3.0					
3.5					
4.0				BULK	
4.1			Test pit KPTP12 end of machine reach at 4.1 m.		
4.5					
5.0					
5.5					
NOTES: 1. No seepage. 2. Large samples at 0.3 to 1.4 m, 1.4 to 3.0 m and 3.5 to 4.5 m.					
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 5/05/2010 NORTHING: 6063295 m MACHINE: SH200 DATE PROFILED: 5/05/2010 EASTING: 749258 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 4.1 ELEVATION: m CHECKED BY:					

RESPONSE TO SUBMISSIONS

Report No.752/42

Appendix 1

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

Knight Piesold
CONSULTING


Knight Piesold Pty Limited
A.C.N. 001 040 419
Level 3, 46 Ventnor Avenue
WEST PERTH WA 6005
Australia

Dargues Reef Gold Project
Cortona Resources Ltd
Tailings Storage Facility
New South Wales

TEST PIT NO.: KPTP13

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	SC		SAND , clayey gravelly, trace silt, low plasticity, dark cream orange grey brown, <u>moist</u> , loose, lensed. ALLUVIUM Many thick roots to 1.5 m.	BULK
0.5				
1.0	SC		1m CLAY SAND , silty, trace gravel, medium plasticity, dark grey, <u>wet</u> , loose, lensed. ALLUVIUM Many thin roots to 2.0 m.	BULK
1.5				
2.0	SW		2m SAND , gravelly, trace clay and cobbles, low plasticity, dark cream brown, <u>very moist</u> , dense. COLLUVIUM / GRANITE Possible colluvial / weathered rock zone. Becoming very dense from 2.2 m. Test pit KPTP13 refusal at 2.5 m.	BULK
2.5			2.5m	
3.0				
3.5				
4.0				
4.5				
5.0				
5.5				
NOTES: 1. Water ingress at 2.0 m steady inflow. 2. Large samples at 0.0 to 1.0 m, 1.0 to 2.0 m and 2.0 to 2.5 m.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 10/05/2010 NORTHING: 6063244 m MACHINE: SH200 DATE PROFILED: 10/05/2010 EASTING: 749216 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 2.5 ELEVATION: m CHECKED BY:				

KP_TP_PEB01-00139_TP_LOGS.GPJ KP_TP_GDT 30/8/10

<i>Knight Piésold</i> CONSULTING <small>Knight Piésold Pty Limited A.C.N. 001 040 419 Level 3, 46 Ventnor Avenue WEST PERTH WA 6005 Australia</small>			Dargues Reef Gold Project Cortona Resources Ltd Tailings Storage Facility New South Wales		TEST PIT NO.: KPTP14 <i>Sheet 1 of 1</i>																								
<div style="border: 1px solid black; display: inline-block; padding: 2px 10px;"> JOB: PE801-00139 </div>																													
DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION		SAMPLE TYPE																								
0.0	ML		0.3m SAND , silty gravelly, trace clay, low plasticity, light grey brown, <u>dry</u> , medium dense. TOPSOIL Sand is fine. CLAY , sandy gravelly, with cobbles, trace boulders, low plasticity, light yellow brown, <u>slightly moist</u> , stiff. GRANITE (Extremely weathered rock) Grey glei fissures with root material noted.	0.3m	BULK																								
0.5	CL																												
1.0	SW			1m																									
1.5			SAND GRAVEL , with cobbles, trace clay and boulders, low plasticity, light cream brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Sand and gravel is fine / coarse. Becoming very dense from 3.0 m.	1.5	BULK																								
2.0		2.0																											
2.5		2.5																											
3.0		3.0																											
3.3		3.3m																											
3.5			Test pit KPTP14 refusal at 3.3 m.																										
4.0				4.0																									
4.5				4.5																									
5.0				5.0																									
5.5				5.5																									
NOTES: 1. No seepage. 2. Large samples at 0.3 to 1.0 m and 1.0 to 3.0 m.																													
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">CONTRACTOR:</td> <td style="width: 20%;">Braidwood Earthmoving</td> <td style="width: 20%;">DATE EXCAVATED:</td> <td style="width: 20%;">6/05/2010</td> <td style="width: 20%;">NORTHING:</td> <td style="width: 20%;">6063191 m</td> </tr> <tr> <td>MACHINE:</td> <td>SH200</td> <td>DATE PROFILED:</td> <td>6/05/2010</td> <td>EASTING:</td> <td>749258 m</td> </tr> <tr> <td>LOGGED BY:</td> <td>SW</td> <td>EXCAVATION SIZE:</td> <td>3 x 1 x 3.3</td> <td>ELEVATION:</td> <td>m</td> </tr> <tr> <td>CHECKED BY:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	6/05/2010	NORTHING:	6063191 m	MACHINE:	SH200	DATE PROFILED:	6/05/2010	EASTING:	749258 m	LOGGED BY:	SW	EXCAVATION SIZE:	3 x 1 x 3.3	ELEVATION:	m	CHECKED BY:					
CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	6/05/2010	NORTHING:	6063191 m																								
MACHINE:	SH200	DATE PROFILED:	6/05/2010	EASTING:	749258 m																								
LOGGED BY:	SW	EXCAVATION SIZE:	3 x 1 x 3.3	ELEVATION:	m																								
CHECKED BY:																													

KP_TP_PE801-00139_TP_LOGS.GPJ_KP_TP_GDT_30/8/10

RESPONSE TO SUBMISSIONS

Report No.752/42

Appendix 1

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

Knight Piésold
CONSULTING

Knight Piésold Pty Limited
A.C.N. 001 040 419
Level 3, 46 Ventnor Avenue
WEST PERTH WA 6005
Australia

Dargues Reef Gold Project
Cortona Resources Ltd
Tailings Storage Facility
New South Wales

TEST PIT NO.: KPTP15

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	SC		CLAY SAND , silty, with gravel, medium plasticity, dark grey, <u>moist</u> , loose. TOPSOIL	BULK
0.5	SC		SAND , gravelly, with clay and cobbles, low plasticity, light yellow brown, <u>very moist</u> , loose, lensed. COLLUVIUM	
1.0				
1.5				
2.0	SP		BOULDERS , sandy gravelly, with clay, trace silt, low plasticity, dark grey brown, <u>wet</u> , very dense, lensed. COLLUVIUM Collapse noted from 2.0 to 3.0 m (maximum size boulder 1 x 1.5 x 1.5).	BULK
2.5				
3.0			Test pit KPTP15 refusal at 3.0 m.	
3.5				
4.0				
4.5				
5.0				
5.5				
NOTES: 1. No seepage. 2. Large samples at 0.5 to 2.0 m and 2.0 to 3.0 m.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 7/05/2010 NORTHING: 6063323 m MACHINE: SH200 DATE PROFILED: 8/05/2010 EASTING: 749281 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 3 ELEVATION: m CHECKED BY:				

KP_TP_PEB01-00139_TP_LOGS.GPJ KP_TP_GDT 30/8/10

Knight Piésold
CONSULTING

Knight Piesold Pty Limited
A.C.N. 001 040 419
Level 3, 46 Ventnor Avenue
WEST PERTH WA 6005
Australia

Dargues Reef Gold Project
Cortona Resources Ltd
Tailings Storage Facility
New South Wales

TEST PIT NO.: KPTP16

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	ML		CLAY SAND , silty, gravelly, medium plasticity, light grey, <u>dry</u> , dense.	
	SW		TOPSOIL Sand is fine.	
0.2				BULK
0.5	CI		SAND , gravelly, trace clay, non plastic, dark yellow grey brown, <u>slightly moist</u> , medium dense.	
0.6			ALLUVIUM Gravel is fine and rounded.	
1.0			CLAY , silty sandy gravelly, high plasticity, dark cream orange grey, <u>moist</u> , soft, lensed.	
1.5			SAPROLITE Interbedded with clayey sand (Glei fissures noted).	
2.0				BULK
2.5				
2.7	GW		GRAVEL , sandy, with clay, low plasticity, light cream orange grey brown, <u>very moist to wet</u> , dense.	
3.0			GRANITE (Extremely weathered rock)	BULK
3.3			Test pit KPTP16 refusal at 3.3 m.	
3.5				
4.0				
4.5				
5.0				
5.5				
NOTES: 1. Seepage at 2.7 m depth with 3.3 m inflow. 2. Large samples at 0.2 to 0.6 m, 0.6 to 2.7 m and 2.7 to 3.3 m.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 6/05/2010 NORTHING: 6063271 m MACHINE: SH200 DATE PROFILED: 7/05/2010 EASTING: 749322 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 3.3 ELEVATION: m CHECKED BY:				

KP_TP_PE801-00139_TP LOGS.GPJ KP_TP_GDT 30/8/10

RESPONSE TO SUBMISSIONS

Report No.752/42

Appendix 1

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

Knight Piésold
CONSULTING


Knight Piésold Pty Limited
A.C.N. 001 040 419
Level 3, 46 Ventnor Avenue
WEST PERTH WA 6005
Australia

Dargues Reef Gold Project
Cortona Resources Ltd
Tailings Storage Facility
New South Wales

TEST PIT NO.: KPTP17

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	ML		SAND , silty gravelly, trace clay, low plasticity, light grey brown, <u>dry</u> , medium dense. TOPSOIL Sand is fine.	BULK
0.3	CI		CLAY SAND , gravelly, with cobbles, trace boulders, low plasticity, light yellow brown, <u>slightly moist</u> , stiff, lensed. GRANITE Extremely weathered rock. Grey glei fissures with root material noted.	
1.1	SW		SAND , gravelly, with cobbles, trace clay and boulders, low plasticity, light cream brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Sand is fine / coarse. Becoming very dense from 2.8 m.	BULK
3.2			Test pit KPTP17 refusal at 3.2 m.	
5.5				
NOTES: 1. No seepage. 2. Large samples at 0.3 to 1.1 m and 1.1 to 3.0 m.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 6/05/2010 NORTHING: 6063222 m MACHINE: SH200 DATE PROFILED: 6/05/2010 EASTING: 749361 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 3.2 ELEVATION: m CHECKED BY:				

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<i>Knight Piésold</i> CONSULTING <small>Knight Piesold Pty Limited A.C.N. 001 040 419 Level 3, 46 Ventnor Avenue WEST PERTH WA 6005 Australia</small>			Dargues Reef Gold Project Cortona Resources Ltd Tailings Storage Facility New South Wales		TEST PIT NO.: KPTP18 <i>Sheet 1 of 1</i> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> JOB: PE801-00139 </div>																								
DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION		SAMPLE TYPE																								
0.0	SC		SAND , with clay and gravel, low plasticity, light grey, <u>dry</u> , loose. TOPSOIL Sand is fine.																										
0.5	SC		0.5m CLAY SAND , gravelly, with cobbles, trace boulders, low plasticity, light mottled cream orange brown, <u>dry</u> , dense, lensed. GRANITE (Extremely weathered rock)	BULK																									
1.0	SW		1.1m SAND GRAVEL , cobbly, trace clay, low plasticity, light mottled cream orange, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Becoming very dense, from 3.0 m.	BULK																									
1.5					BULK																								
2.0																													
2.5					BULK																								
3.0																													
3.2			3.2m Test pit KPTP18 refusal at 3.2 m.																										
3.5																													
4.0																													
4.5																													
5.0																													
5.5																													
NOTES: 1. No seepage. 2. Large samples at 0.5 to 1.1 m, 1.1 to 2.2 m and 2.2 to 3.2 m.																													
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">CONTRACTOR:</td> <td style="width: 20%;">Braidwood Earthmoving</td> <td style="width: 20%;">DATE EXCAVATED:</td> <td style="width: 20%;">7/05/2010</td> <td style="width: 20%;">NORTHING:</td> <td style="width: 20%;">6063372 m</td> </tr> <tr> <td>MACHINE:</td> <td>SH200</td> <td>DATE PROFILED:</td> <td>8/05/2010</td> <td>EASTING:</td> <td>749370 m</td> </tr> <tr> <td>LOGGED BY:</td> <td>SW</td> <td>EXCAVATION SIZE:</td> <td>3 x 1 x 3.2</td> <td>ELEVATION:</td> <td>m</td> </tr> <tr> <td>CHECKED BY:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	7/05/2010	NORTHING:	6063372 m	MACHINE:	SH200	DATE PROFILED:	8/05/2010	EASTING:	749370 m	LOGGED BY:	SW	EXCAVATION SIZE:	3 x 1 x 3.2	ELEVATION:	m	CHECKED BY:					
CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	7/05/2010	NORTHING:	6063372 m																								
MACHINE:	SH200	DATE PROFILED:	8/05/2010	EASTING:	749370 m																								
LOGGED BY:	SW	EXCAVATION SIZE:	3 x 1 x 3.2	ELEVATION:	m																								
CHECKED BY:																													

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RESPONSE TO SUBMISSIONS

Report No.752/42

Appendix 1

BIG ISLAND MINING PTY LTD

Dargues Gold Mine

Knight Piesold
CONSULTING

Knight Piesold Pty Limited
A.C.N. 001 040 419
Level 3, 46 Ventnor Avenue
WEST PERTH WA 6005
Australia

Dargues Reef Gold Project
Cortona Resources Ltd
Tailings Storage Facility
New South Wales

TEST PIT NO.: **KPTP19**

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	GM		CLAY SAND GRAVEL , low plasticity, light brown, <u>very moist</u> , medium dense. ALLUVIUM Collapse noted to 1.8 m.	
0.5				
1.0				BULK
1.5				
2.0				BULK
2.5				
▼				
3.0	SW		2.9m SAND GRAVEL , with clay, low plasticity, light cream orange brown, <u>very moist</u> , medium dense. GRANITE (Extremely weathered rock) Water fills pit to 3.2 m overnight. Becoming very dense from 3.3 m.	BULK
3.5			3.5m Test pit KPTP19 refusal at 3.5 m.	
4.0				
4.5				
5.0				
5.5				
NOTES: 1. Seepage at 2.9 m depth with trickle inflow. 2. Large sampels at 0.5 to 1.5 m, 1.5 to 2.5 m and 2.5 to 3.5 m.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 7/05/2010 NORTHING: 6063320 m MACHINE: SH200 DATE PROFILED: 8/05/2010 EASTING: 749411 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 3.5 ELEVATION: m CHECKED BY:				

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<i>Knight Piésold</i> CONSULTING <small>Knight Piesold Pty Limited A.C.N. 001 040 419 Level 3, 46 Ventnor Avenue WEST PERTH WA 6005 Australia</small>			Dargues Reef Gold Project Cortona Resources Ltd Tailings Storage Facility New South Wales		TEST PIT NO.: KPTP20 <i>Sheet 1 of 1</i> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> JOB: PE801-00139 </div>																									
DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE																										
0.0	ML		SAND , clayey, gravelly, low plasticity, light grey, medium dense. TOPSOIL Sand is fine.	0.3m	BULK																									
0.5	CL		CLAY , sandy gravelly, with cobbles, low plasticity, light mottled cream orange brown, <u>dry</u> , stiff. GRANITE (Extremely weathered rock) Sand is fine / coarse.																											
1.0	SW		SAND , gravelly cobbly, trace clay, non plastic, light cream brown, <u>dry</u> , dense. GRANITE (Extremely weathered rock) Becoming very dense from 2.5 m.	1m	BULK																									
1.5																														
2.0																														
2.5																														
2.7			Test pit KPTP20 refusal at 2.7 m.																											
3.0																														
3.5																														
4.0																														
4.5																														
5.0																														
5.5																														
NOTES: 1. No seepage. 2. Large samples at 0.3 to 1.0 m and 1.0 to 2.5 m.																														
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">CONTRACTOR:</td> <td style="width: 20%;">Braidwood Earthmoving</td> <td style="width: 20%;">DATE EXCAVATED:</td> <td style="width: 20%;">10/05/2010</td> <td style="width: 20%;">NORTHING:</td> <td style="width: 20%;">6063160 m</td> </tr> <tr> <td>MACHINE:</td> <td>SH200</td> <td>DATE PROFILED:</td> <td>10/05/2010</td> <td>EASTING:</td> <td>749417 m</td> </tr> <tr> <td>LOGGED BY:</td> <td>SW</td> <td>EXCAVATION SIZE:</td> <td>3 x 1 x 2.7</td> <td>ELEVATION:</td> <td>m</td> </tr> <tr> <td>CHECKED BY:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	10/05/2010	NORTHING:	6063160 m	MACHINE:	SH200	DATE PROFILED:	10/05/2010	EASTING:	749417 m	LOGGED BY:	SW	EXCAVATION SIZE:	3 x 1 x 2.7	ELEVATION:	m	CHECKED BY:					
CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	10/05/2010	NORTHING:	6063160 m																									
MACHINE:	SH200	DATE PROFILED:	10/05/2010	EASTING:	749417 m																									
LOGGED BY:	SW	EXCAVATION SIZE:	3 x 1 x 2.7	ELEVATION:	m																									
CHECKED BY:																														

KP_TP_PE801-00139_TP_LOGS.GPJ_KP_TP_GDT_30/8/10

Knight Piesold CONSULTING Knight Piesold Pty Limited A.C.N. 001 040 419 Level 3, 46 Ventnor Avenue WEST PERTH WA 6005 Australia		Dargues Reef Gold Project Cortona Resources Ltd Tailings Storage Facility New South Wales		TEST PIT NO.: KPTP21 Sheet 1 of 1
				JOB: PE801-00139
DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	SM		SAND , clayey, with silt, trace gravel, medium plasticity, dark grey, <u>dry</u> , loose. TOPSOIL Sand is fine	BULK
0.3	SW		SAND , non plastic, light brown, <u>slightly moist</u> , loose. ALLUVIUM Some root material noted. Sand is fine to coarse.	
0.8	SM		CLAY SAND , trace gravel, medium plasticity, light brown, <u>very moist</u> , loose. ALLUVIUM	BULK
1.0	CI		CLAY , sandy, trace gravel, medium plasticity, dark grey brown, <u>wet</u> , soft, lensed. COLLUVIUM	BULK
2.3	SM		CLAY SAND , trace gravel, medium plasticity, dark brown, <u>wet</u> , loose. COLLUVIUM	
3.0	SW		SAND GRAVEL , cobbly, trace clay, low plasticity, light cream orange brown, <u>moist</u> , dense. GRANITE (Possible extremely weathered rock)	BULK
4.3			Test pit KPTP21a stopped at 4.3 m.	
NOTES: 1. Seepage at 2.5 m depth with steady inflow. 2. Large samples at 0.3 to 0.8 m, 0.8 to 1.0 m, 1.0 to 2.3 m, 2.3 to 3.0 m and 3.0 to 4.0 m. 3. Continuous collapse from base to surface. 4. Terminated due to continuous collapse.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 13/05/2010 NORTHING: 6063382 m MACHINE: SH200 DATE PROFILED: 13/05/2010 EASTING: 749521 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 4.3 ELEVATION: m CHECKED BY:				