

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.: KPTP22 Sheet 1 of 1 JOB: PE801-00139
DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	CI		CLAY , sandy gravelly, with gravel, low plasticity, light grey, <u>dry</u> , medium dense. TOPSOIL	
0.3	CL		CLAY , sandy gravelly, with cobbles, trace boulders, low plasticity, light mottled cream orange brown, <u>dry</u> , stiff, lensed. COLLUVIUM	
2.3	SW		SAND , gravelly, with clay and gravel, low plasticity, light mottled orange brown, dense, lensed. COLLUVIUM	BULK
2.7			CLAY SAND , gravelly, with silt, low plasticity, light mottled orange brown, <u>moist</u> , medium dense, lensed. COLLUVIUM Becoming very dense from 3.3 m.	BULK
3.5			Test pit KPTP21 end of machine reach at 3.5 m.	BULK
4.0				
4.5				
5.0				
5.5				
NOTES: 1. No seepage. 2. Large samples at 0.3 to 2.3 m, 2.3 to 2.7 m and 2.7 to 3.5 m.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 7/05/2010 NORTHING: 6063414 m MACHINE: SH200 DATE PROFILED: 8/05/2010 EASTING: 749578 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 3.5 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.: KPTP23A

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	ML		SAND , silty, with clay and gravel, low plasticity, dark grey, <u>dry</u> , loose.	
	ML		TOPSOIL Thickens to 400 mm at base.	
0.5			CLAY SAND , silty, with gravel, trace cobbles, low plasticity, dark grey brown, <u>dry</u> , medium dense.	
	CL		COLLUVIUM Tapered from 100 mm at top to 500 mm at base.	
1.0			CLAY SAND , gravelly, with cobbles, low plasticity, light orange brown, <u>dry</u> , stiff.	
			GRANITE (Possible weathered rock)	
1.5				
2.0				
2.5	SW		SAND GRAVEL , cobbly, trace clay, low plasticity, light orange brown, <u>dry</u> , dense.	
			GRANITE (Probably weathered rock).	
2.7			Test pit KPTP23A stopped at 2.7 m.	
3.0				
3.5				
4.0				
4.5				
5.0				
5.5				
NOTES: 1. No seepage. 2. No samples. 3. Horizontal exavation.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 11/05/2010 NORTHING: 6063308 m MACHINE: SH200 DATE PROFILED: 11/05/2010 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

<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.: KPTP23B <i>Sheet 1 of 1</i> <div style="border: 1px solid black; padding: 2px; margin-top: 10px;"> JOB: PE801-00139 </div>																								
DEPTH (m)	USC	GRAPHIC LOG		MATERIAL DESCRIPTION	SAMPLE TYPE																								
0.0	ML			SAND , silty, with clay and gravel, low plasticity, dark grey, <u>dry</u> , loose. TOPSOIL Tapers to 0.4 m thick at base.																									
	ML		0.3m	CLAY SAND , silty, with gravel, trace cobbles, low plasticity, dark grey brown, <u>dry</u> , medium dense. COLLUVIUM Tapers from 0.0 at top to 400 mm at base.																									
0.5																													
	SC		0.7m	CLAY SAND , gravelly, with cobbles, low plasticity, dark orange brown, <u>dry</u> , stiff, lensed. COLLUVIUM Tapers from 100 mm at top.																									
1.0																													
1.5	SW		1.5m	SAND GRAVEL , clayey, with cobbles, low plasticity, light cream brown, <u>dry</u> , dense. GRANITE (Possible extremely weathered rock)																									
			1.7m	Test pit KPTP23B stopped at 1.7 m.																									
2.0																													
2.5																													
3.0																													
3.5																													
4.0																													
4.5																													
5.0																													
5.5																													
NOTES: 1. No seepage. 2. No samples. 3. Horizontal excavation.																													
<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%;">11/05/2010</td> <td style="width: 20%;">NORTHING:</td> <td style="width: 20%;">6063301 m</td> </tr> <tr> <td>MACHINE:</td> <td>SH200</td> <td>DATE PROFILED:</td> <td>11/05/2010</td> <td>EASTING:</td> <td>749262 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:	11/05/2010	NORTHING:	6063301 m	MACHINE:	SH200	DATE PROFILED:	11/05/2010	EASTING:	749262 m	LOGGED BY:	SW	EXCAVATION SIZE:	3 x 1 x 3	ELEVATION:	m	CHECKED BY:					
CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	11/05/2010	NORTHING:	6063301 m																								
MACHINE:	SH200	DATE PROFILED:	11/05/2010	EASTING:	749262 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

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WEST PERTH WA 6005
Australia

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

TEST PIT NO.: KPTP23C

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	ML		SAND , silty, with clay and gravel, low plasticity, dark grey, <u>dry</u> .	
0.3	ML		CLAY SAND , silty, with gravel, low plasticity, dark orange brown, <u>dry</u> , dense. COLLUVIUM Tapers from 0.5 m at top.	
0.8	SC		SAND GRAVEL , clayey, trace cobbles, low plasticity, dark orange brown, <u>dry</u> , dense, lensed. GRANITE (Possible extremely weathered rock). Tapers from 0.0 m at top.	
1.5			1.5m Test pit KPTP23C stopped at 1.5 m.	
2.0				
2.5				
3.0				
3.5				
4.0				
4.5				
5.0				
5.5				
NOTES: 1. No seepage. 2. No samples. 3. Horizontal excavation.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 11/05/2010 NORTHING: 606267 m MACHINE: SH200 DATE PROFILED: 11/05/2010 EASTING: 749259 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

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
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A.C.N. 001 040 419
Level 3, 46 Ventnor Avenue
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Australia

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

TEST PIT NO.: **KPTP24**

Sheet 1 of 1

JOB: PE801-00139

DEPTH (m)	USC	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE
0.0	CI		CLAY SAND , silty, low plasticity, light to dark yellow orange grey and brown, <u>moist</u> , soft, layered. ALLUVIUM Much root material noted.	
0.5	GC	0.6m	CLAY SAND , cobbly, low plasticity, dark grey, <u>wet</u> , loose, pockets. ALLUVIUM	
1.0				
1.5	GW	1.6m	SAND GRAVEL , trace cobbles, non plastic, light cream yellow and brown, <u>wet</u> , dense. GRANITE (Possible extremely weathered granite).	
2.0		2m	Test pit KPTP24 refusal at 2.0 m.	
2.5			Pit walls continually collapsing.	
3.0				
3.5				
4.0				
4.5				
5.0				
5.5				
NOTES: 1. Seepage at 1.6 m depth with continuous pit fills to 1.6 m. 2. No sampels.				
CONTRACTOR: Braidwood Earthmoving DATE EXCAVATED: 12/05/2010 NORTHING: 6063124 m MACHINE: SH200 DATE PROFILED: 12/05/2010 EASTING: 749095 m LOGGED BY: SW EXCAVATION SIZE: 3 x 1 x 2 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.: KPTP25 <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	SP		SAND , with gravel, non plastic, light brown, <u>dry</u> , loose. ALLUVIUM Sand is fine, gravel is fine/medium. Some fine roots.																											
0.5	CH		0.5m CLAY , sandy, trace gravel, high plasticity, light to mottled orange grey and brown, <u>moist</u> , soft, lensed. ALLUVIUM																											
1.0																														
1.5	GM		1.5m CLAY SAND , trace gravel, medium plasticity, light cream brown, <u>slightly moist</u> , soft, pockets. COLLUVIUM																											
2.0																														
2.5	GM	2.5m SAND , clayey, with gravel, low plasticity, light cream brown, <u>slightly moist</u> , pockets. GRANITE (Possible extremely weathered granite).																												
3.0		3m Test pit KPTP25 stopped at 3.0 m.																												
3.5																														
4.0																														
4.5																														
5.0																														
5.5																														
NOTES: 1. No seepage. 2. No samples.																														
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CONTRACTOR:	Braidwood Earthmoving	DATE EXCAVATED:	11/05/2010	NORTHING:	6063336 m																									
MACHINE:	SH200	DATE PROFILED:	11/05/2010	EASTING:	749433 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

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 1: KPTP01.



Plate 2: KPTP01 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 3: KPTP02.



Plate 4: KPTP02 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 5: KPTP02 Clay Vein (fault).

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 6: KPTP03.



Plate 7: KPTP03 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 8: KPTP04.



Plate 9: KPTP04 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 10: KPTP05.

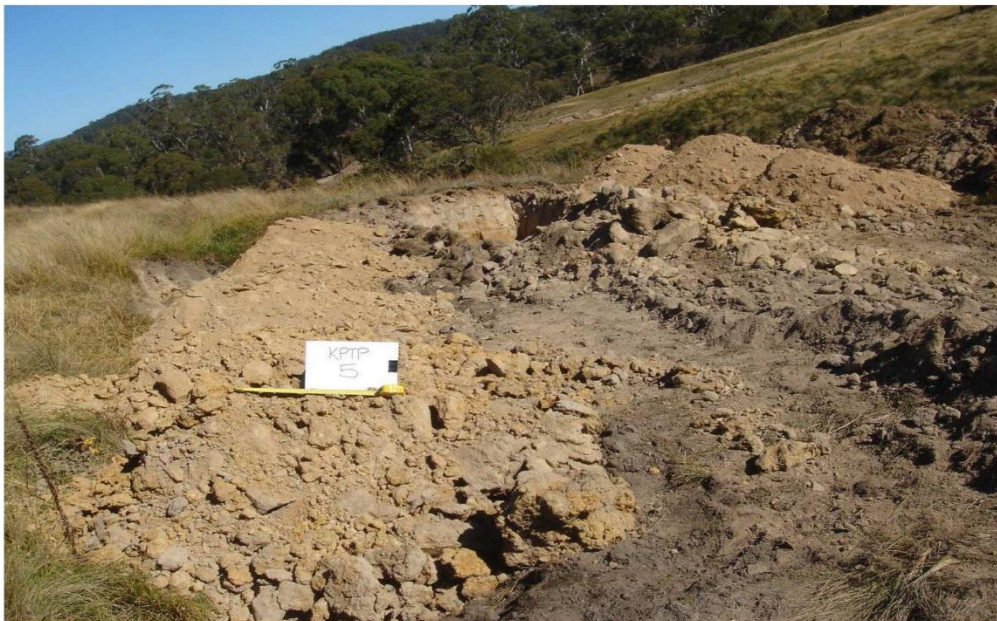


Plate 11: KPTP05 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 12: KPTP06.



Plate 13: KPTP06 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 14: KPTP07.



Plate 15: KPTP07 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 16: KTP08.



Plate 17: KTP08 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 18: KTP09.



Plate 19: KTP09 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 20: KPTP10.



Plate 21: KPTP10 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 22: KPTP11.



Plate 23: KPTP11 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 24: KTP12.



Plate 25: KTP12 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 26: KPTP13.



Plate 27: KPTP13 Spoil.

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TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 28: KPTP14.



Plate 29: KPTP14 Spoil.

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TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 30: KTP15.



Plate 31: KTP15 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 32: KTP16.



Plate 33: KTP16 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 34: KTP18



Plate 35: KTP18 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 36: KPTP19.



Plate 37: KPTP19 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 38: KPTP20.



Plate 39: KPTP20 Spoil

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 40: KPTP21.



Plate 41: KPTP21 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 42: KTP22.



Plate 42: KTP22 Spoil.

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 43: KPTP23A



Plate 44: KPTP23B

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 45: KPTP23C



Plate 47: KPTP23C

**DARGUES REEF GOLD PROJECT
TAILINGS STORAGE FACILITY
TEST PIT PHOTOGRAPHS**



Plate 46: KPTP24.



Plate 47: KPTP24 Spoil.

APPENDIX H

Laboratory Test Reports

Knight Piésold
CONSULTING



PARKES Laboratory
PARKES Laboratory
K & H Geotechnical Services Pty Ltd
ABN 115408476
19a May Street
PARKES NSW 2870

Phone: (02) 6862 5554

Fax: (02) 02 6862 5501

Material Test Report

Report No: MAT:S10 / 1201

Issue No: 2

This issue replaces all previous issues of MAT:S10 / 1201.

Client: Knight Piesold Pty Ltd
Level 3, 46 Ventnor Ave
West Perth WA 6005

Project: Material Evaluation - DARGUES REEF GOLD PROJECT



5813

This document is issued in accordance with NATA
accreditation requirements
Accredited for compliance with ISO/IEC 17025

(Signature)

Approved Signatory: John Kennedy (Laboratory
Manager)

Date of Issue: 28/07/2010

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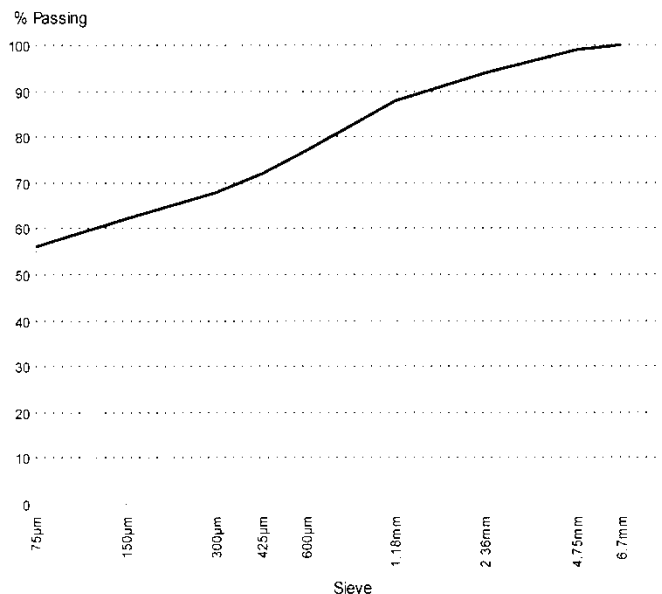
Sample Details

Sample ID: S10 / 1201
Client Sample: TP 12
Date Sampled: N/A
Source: Insitu Sample
Material: Residual Soil
Specification: Material Evaluation 3
Sampling Method: Backhoe

Other Test Results

Description	Method	Result	Limits
Sample History	AS 1289.1.1	Oven-dried	N/A
Preparation	AS 1289.1.1	Dry Sieved	N/A
Linear Shrinkage (%)	AS 1289.3.4.1	6.5	N/A
Mould Length (mm)		253	N/A
Crumbling		Yes	N/A
Curling		No	N/A
Liquid Limit (%)	AS 1289.3.1.2	37	N/A
Method		One Point	N/A
Plastic Limit (%)	AS 1289.3.2.1	18	N/A
Plasticity Index (%)	AS 1289.3.3.1	19	N/A
Moisture Content (%)	AS 1289.2.1.1	24.2	N/A

Particle Size Distribution



Method: AS 1141.11, AS 1141.12
Drying by: Oven

Note: Sample Washed

Sieve Size	% Passing	Limits
6.7mm	100	N/A
4.75mm	99	N/A
2.36mm	94	N/A
1.18mm	88	N/A
600µm	77	N/A
425µm	72	N/A
300µm	68	N/A
150µm	62	N/A
75µm	56	N/A
Finer 75µm	56	N/A

Comments

N/A



PARKES Laboratory
PARKES Laboratory
K & H Geotechnical Services Pty Ltd
ABN 115408476
19a May Street
PARKES NSW 2870

Phone: (02) 6862 5554
Fax: (02) 02 6862 5501

Material Test Report

Report No: MAT:S10 / 1202

Issue No: 3

This issue replaces all previous issues of MAT:S10 / 1202.

Client: Knight Piesold Pty Ltd
Level 3, 46 Ventnor Ave
West Perth WA 6005



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[Signature]

Approved Signatory: John Kennedy (Laboratory
Manager)

5613

Date of Issue: 28/07/2010

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Project: Material Evaluation - DARGUES REEF GOLD PROJECT

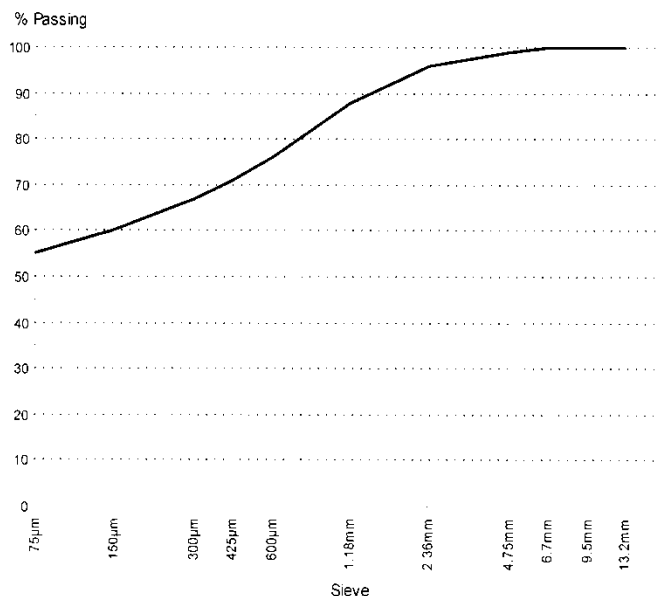
Sample Details

Sample ID: S10 / 1202
Client Sample: TP 14
Date Sampled: N/A
Source: Insitu Sample
Material: Residual Soil
Specification: Material Evaluation 3
Sampling Method: Backhoe

Other Test Results

Description	Method	Result	Limits
Sample History	AS 1289.1.1	Oven-dried	N/A
Preparation	AS 1289.1.1	Dry Sieved	N/A
Linear Shrinkage (%)	AS 1289.3.4.1	12.0	N/A
Mould Length (mm)		253	N/A
Crumbling		Yes	N/A
Curling		No	N/A
Liquid Limit (%)	AS 1289.3.1.2	58	N/A
Method		One Point	N/A
Plastic Limit (%)	AS 1289.3.2.1	23	N/A
Plasticity Index (%)	AS 1289.3.3.1	35	N/A
Moisture Content (%)	AS 1289.2.1.1	25.0	N/A

Particle Size Distribution



Method: AS 1141.11, AS 1141.12
Drying by: Oven

Note: Sample Washed

Sieve Size	% Passing	Limits
13.2mm	100	N/A
9.5mm	100	N/A
6.7mm	100	N/A
4.75mm	99	N/A
2.36mm	96	N/A
1.18mm	88	N/A
600µm	76	N/A
425µm	71	N/A
300µm	67	N/A
150µm	60	N/A
75µm	55	N/A
Finer 75µm	55	

Comments

N/A

**PARKES Laboratory**

PARKES Laboratory
K & H Geotechnical Services Pty Ltd
ABN 115408476
19a May Street
PARKES NSW 2870

Phone: (02) 6862 5554

Fax: (02) 02 6862 5501

Material Test Report**Report No: MAT:S10 / 1203****Issue No: 2**

This issue replaces all previous issues of MAT:S10 / 1203.

Client: Knight Piesold Pty Ltd
Level 3, 46 Ventnor Ave
West Perth WA 6005

Project: Material Evaluation - DARGUES REEF GOLD PROJECT



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Approved Signatory John Kennedy (Laboratory
Manager)

Date of Issue: 28/07/2010

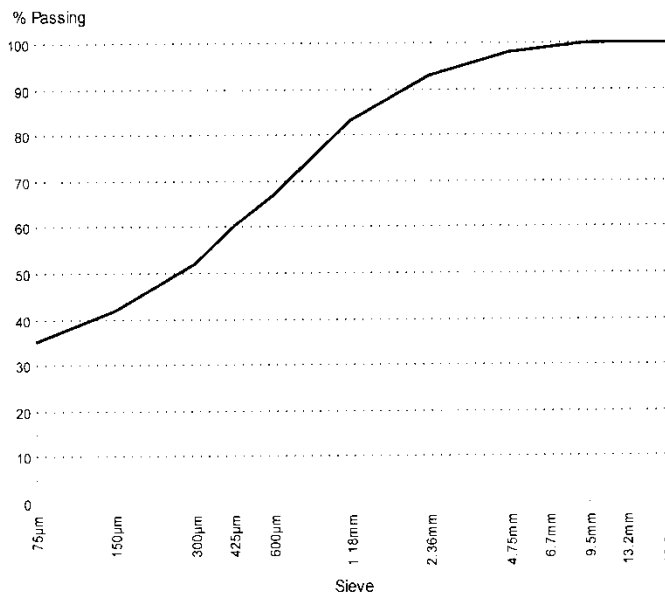
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Sample Details

Sample ID: S10 / 1203
Client Sample: TP 15
Date Sampled: N/A
Source: Insitu Sample
Material: Residual Soil
Specification: Material Evaluation 3
Sampling Method: Backhoe

Other Test Results

Description	Method	Result	Limits
Sample History	AS 1289.1.1	Oven-dried	N/A
Preparation	AS 1289.1.1	Dry Sieved	N/A
Linear Shrinkage (%)	AS 1289.3.4.1	4.5	N/A
Mould Length (mm)		254	N/A
Crumbling		Yes	N/A
Curling		No	N/A
Liquid Limit (%)	AS 1289.3.1.2	30	N/A
Method		One Point	N/A
Plastic Limit (%)	AS 1289.3.2.1	20	N/A
Plasticity Index (%)	AS 1289.3.3.1	10	N/A
Moisture Content (%)	AS 1289.2.1.1	13.8	N/A

Particle Size Distribution

Method: AS 1141.11, AS 1141.12
Drying by: Oven

Note: Sample Washed

Sieve Size	% Passing	Limits
19.0mm	100	N/A
13.2mm	100	N/A
9.5mm	100	N/A
6.7mm	99	N/A
4.75mm	98	N/A
2.36mm	93	N/A
1.18mm	83	N/A
600µm	67	N/A
425µm	60	N/A
300µm	52	N/A
150µm	42	N/A
75µm	35	N/A
Finer 75µm	34	

Comments

N/A



PARKES Laboratory
PARKES Laboratory
K & H Geotechnical Services Pty Ltd
ABN 115408476
19a May Street
PARKES NSW 2870

Phone: (02) 6862 5554
Fax: (02) 02 6862 5501

Material Test Report

Report No: MAT:S10 / 1204

Issue No: 2

This issue replaces all previous issues of MAT:S10 / 1204

Client: Knight Piesold Pty Ltd
Level 3, 46 Ventnor Ave
West Perth WA 6005



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[Signature]

Approved Signatory: John Kennedy (Laboratory
Manager)

Date of Issue: 28/07/2010

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Project: Material Evaluation - DARGUES REEF GOLD PROJECT

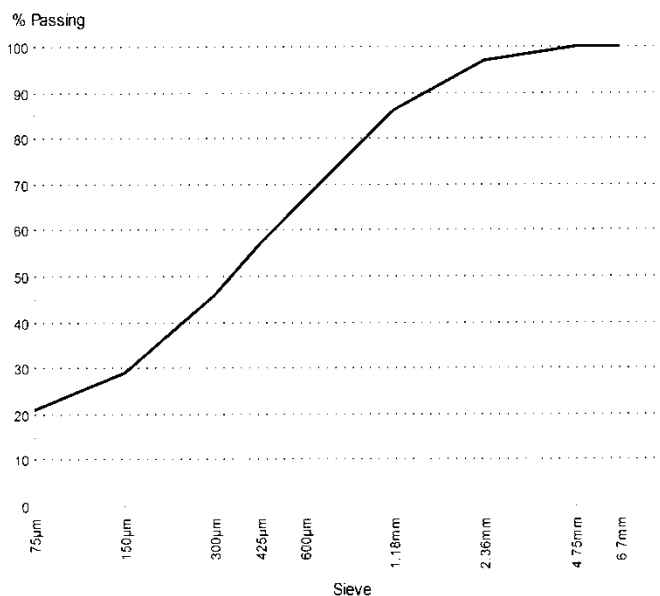
Sample Details

Sample ID: S10 / 1204
Client Sample: TP 16
Date Sampled: N/A
Source: Insitu Sample
Material: Residual Soil
Specification: Material Evaluation 3
Sampling Method: Backhoe

Other Test Results

Description	Method	Result	Limits
Sample History	AS 1289.1.1	Oven-dried	N/A
Preparation	AS 1289.1.1	Dry Sieved	N/A
Linear Shrinkage (%)	AS 1289.3.4.1	2.0	N/A
Mould Length (mm)		254	N/A
Crumbling		Yes	N/A
Curling		No	N/A
Liquid Limit (%)	AS 1289.3.1.2	25	N/A
Method		One Point	N/A
Plastic Limit (%)	AS 1289.3.2.1	21	N/A
Plasticity Index (%)	AS 1289.3.3.1	4	N/A
Moisture Content (%)	AS 1289.2.1.1	13.8	N/A

Particle Size Distribution



Method: AS 1141.11, AS 1141.12
Drying by: Oven

Note: Sample Washed

Sieve Size	% Passing	Limits
6.7mm	100	N/A
4.75mm	100	N/A
2.36mm	97	N/A
1.18mm	86	N/A
600µm	67	N/A
425µm	57	N/A
300µm	46	N/A
150µm	29	N/A
75µm	21	N/A
Finer 75µm	21	N/A

Comments

N/A



PARKES Laboratory

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PARKES NSW 2870

Phone: (02) 6862 5554
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Material Test Report

Report No: MAT:S10 / 1205

Issue No: 2

This issue replaces all previous issues of MAT:S10 / 1205

Client: Knight Piesold Pty Ltd
Level 3, 46 Ventnor Ave
West Perth WA 6005



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Approved Signatory: John Kennedy (Laboratory
Manager)

Date of Issue: 28/07/2010

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Project: Material Evaluation - DARGUES REEF GOLD PROJECT

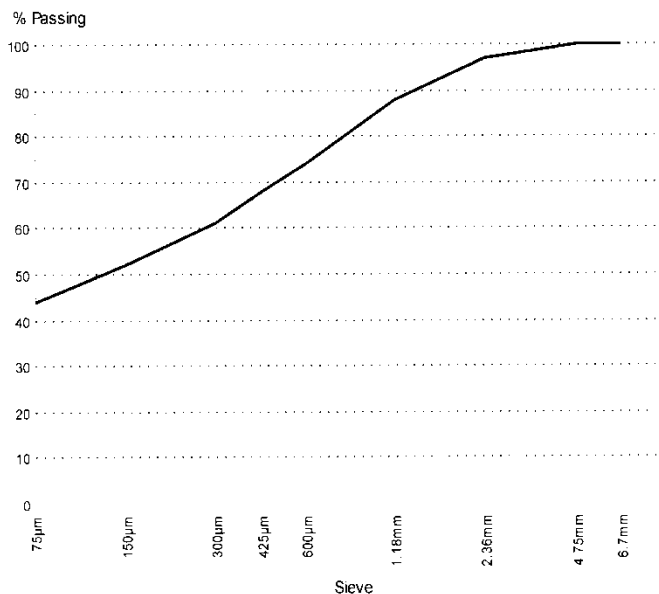
Sample Details

Sample ID: S10 / 1205
Client Sample: TP 17
Date Sampled: N/A
Source: Insitu Sample
Material: Residual Soil
Specification: Material Evaluation 3
Sampling Method: Backhoe

Other Test Results

Description	Method	Result	Limits
Sample History	AS 1289.1.1	Oven-dried	N/A
Preparation	AS 1289.1.1	Dry Sieved	N/A
Linear Shrinkage (%)	AS 1289.3.4.1	6.5	N/A
Mould Length (mm)		253	N/A
Crumbling		Yes	N/A
Curling		No	N/A
Liquid Limit (%)	AS 1289.3.1.2	38	N/A
Method		One Point	N/A
Plastic Limit (%)	AS 1289.3.2.1	18	N/A
Plasticity Index (%)	AS 1289.3.3.1	20	N/A
Moisture Content (%)	AS 1289.2.1.1	18.2	N/A

Particle Size Distribution



Method: AS 1141.11, AS 1141.12
Drying by:

Note: Sample Washed

Sieve Size	% Passing	Limits
6.7mm	100	N/A
4.75mm	100	N/A
2.36mm	97	N/A
1.18mm	88	N/A
600µm	74	N/A
425µm	68	N/A
300µm	61	N/A
150µm	52	N/A
75µm	44	N/A
Finer 75µm	41	N/A

Comments

N/A



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Material Test Report

Report No: MAT:S10 / 1206

Issue No: 2

This issue replaces all previous issues of MAT:S10 / 1206.

Client: Knight Piesold Pty Ltd
Level 3, 46 Ventnor Ave
West Perth WA 6005



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Approved Signatory: John Kennedy (Laboratory
Manager)

Date of Issue: 28/07/2010

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Project: Material Evaluation - DARGUES REEF GOLD PROJECT

Sample Details

Sample ID: S10 / 1206
Client Sample: TP 18
Date Sampled: N/A
Source: Insitu Sample
Material: Residual Soil
Specification: Material Evaluation 3
Sampling Method: Backhoe

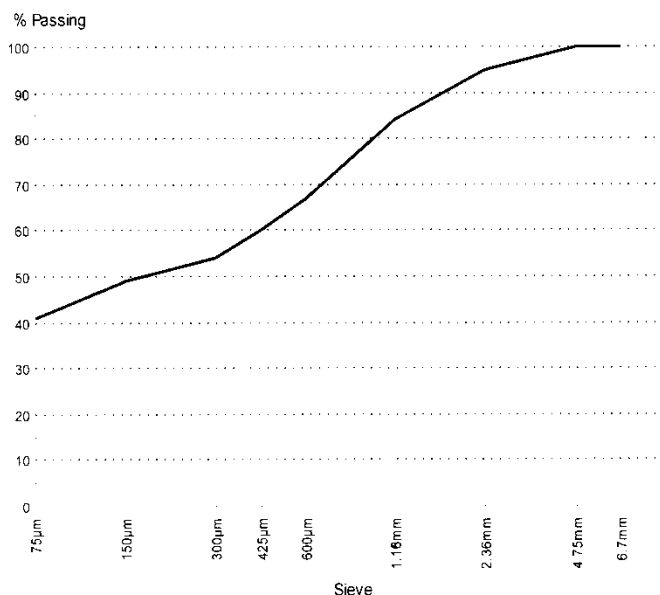
Other Test Results

Description	Method	Result	Limits
Sample History	AS 1289.1.1	Oven-dried	N/A
Preparation	AS 1289.1.1	Dry Sieved	N/A
Linear Shrinkage (%)	AS 1289.3.4.1	7.5	N/A
Mould Length (mm)		254	N/A
Crumbling		No	N/A
Curling		Yes	N/A
Liquid Limit (%)	AS 1289.3.1.2	43	N/A
Method		One Point	N/A
Plastic Limit (%)	AS 1289.3.2.1	24	N/A
Plasticity Index (%)	AS 1289.3.3.1	19	N/A
Moisture Content (%)	AS 1289.2.1.1	13.3	N/A

Particle Size Distribution

Method: AS 1141.11, AS 1141.12
Drying by:

Note: Sample Washed



Sieve Size	% Passing	Limits
6.7mm	100	N/A
4.75mm	100	N/A
2.36mm	95	N/A
1.18mm	84	N/A
600µm	67	N/A
425µm	60	N/A
300µm	54	N/A
150µm	49	N/A
75µm	41	N/A
Finer 75µm	39	N/A

Comments

N/A



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Material Test Report

Report No: MAT:S10 / 1207

Issue No: 2

This issue replaces all previous issues of MAT:S10 / 1207.

Client: Knight Piesold Pty Ltd
Level 3, 46 Ventnor Ave
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Project: Material Evaluation - DARGUES REEF GOLD PROJECT

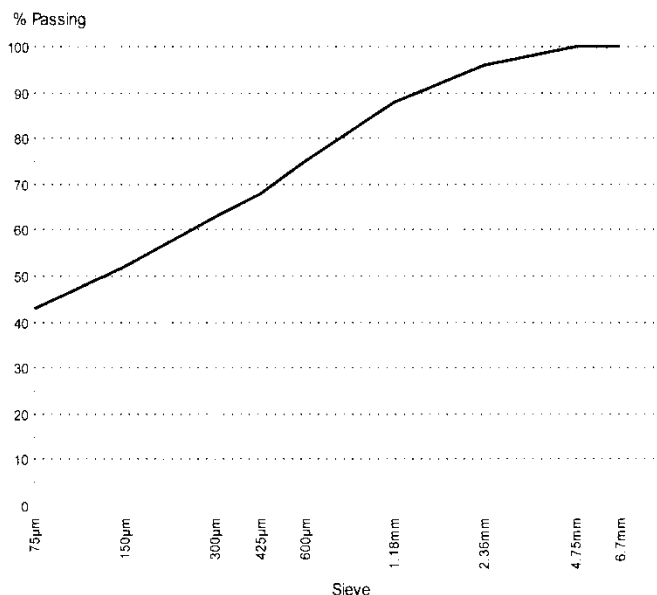
Sample Details

Sample ID: S10 / 1207
Client Sample: TP 20
Date Sampled: N/A
Source: Insitu Sample
Material: Residual Soil
Specification: Material Evaluation 2
Sampling Method: Backhoe

Other Test Results

Description	Method	Result	Limits
Sample History	AS 1289.1.1	Oven-dried	N/A
Preparation	AS 1289.1.1	Dry Sieved	N/A
Linear Shrinkage (%)	AS 1289.3.4.1	10.0	N/A
Mould Length (mm)		253	N/A
Crumbling		Yes	N/A
Curling		No	N/A
Liquid Limit (%)	AS 1289.3.1.2	51	N/A
Method		One Point	N/A
Plastic Limit (%)	AS 1289.3.2.1	35	N/A
Plasticity Index (%)	AS 1289.3.3.1	16	N/A
Moisture Content (%)	AS 1289.2.1.1	13.8	N/A

Particle Size Distribution



Method: AS 1141.11, AS 1141.12
Drying by: Oven

Note: Sample Washed

Sieve Size	% Passing	Limits
6.7mm	100	N/A
4.75mm	100	N/A
2.36mm	96	N/A
1.18mm	88	N/A
600µm	75	N/A
425µm	68	N/A
300µm	63	N/A
150µm	52	N/A
75µm	43	N/A
Finer 75µm	39	N/A

Comments

N/A

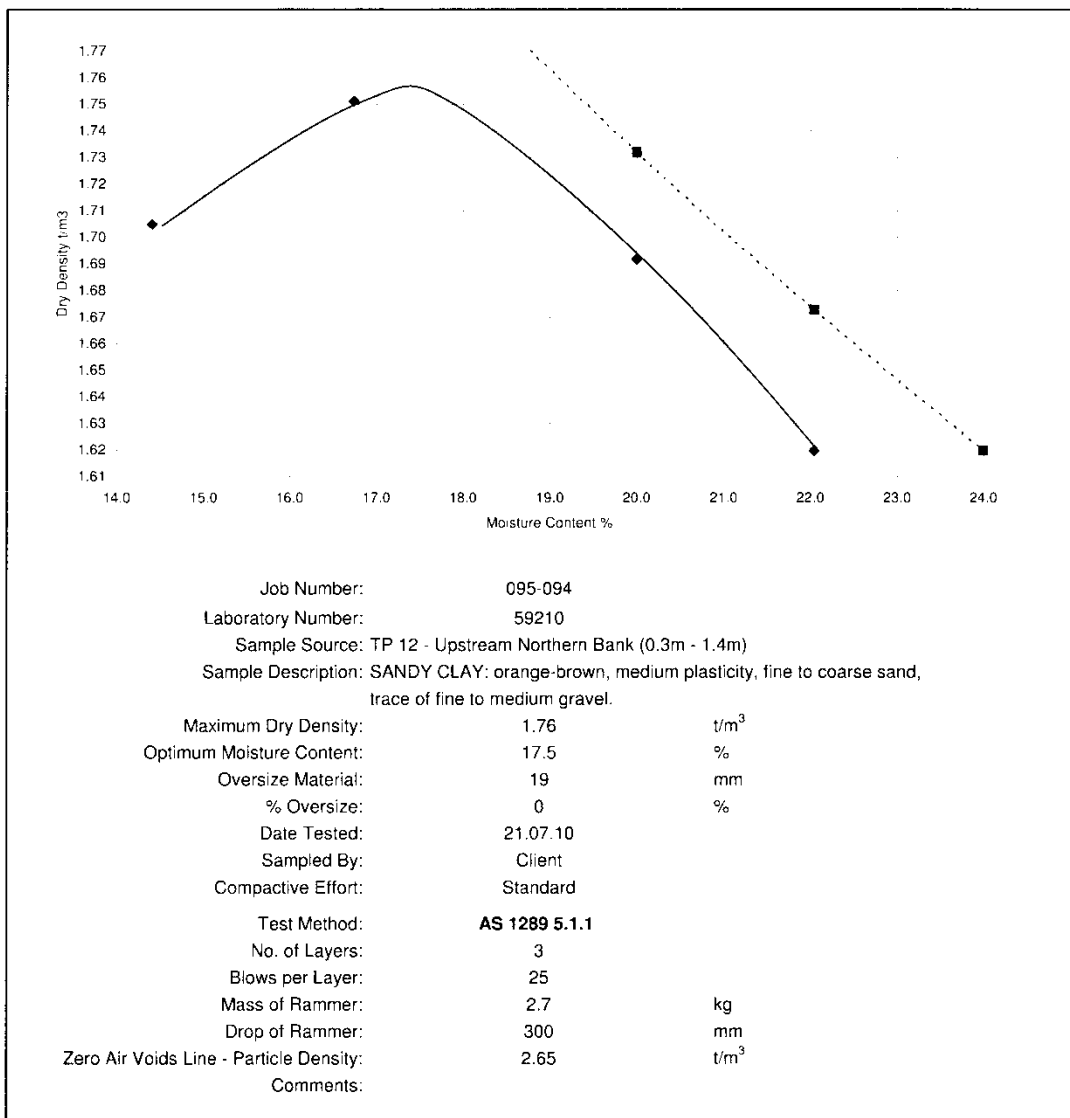
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Australia

DRY DENSITY/MOISTURE CONTENT RELATION

CLIENT: K & H Geotechnical Services
19a May Street Parkes NSW 2870
PROJECT: Dargues Reef Gold Project



Approved Signatory:

Chris Lloyd

Date: 26.7.10

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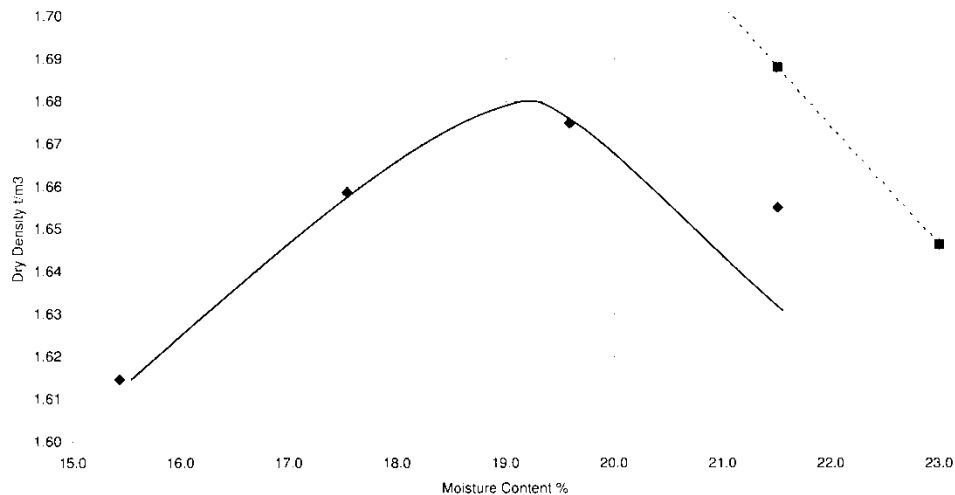
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CR: 461 012 947 5569
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Rockdale DC NSW 2216
Australia

DRY DENSITY/MOISTURE CONTENT RELATION

CLIENT: K & H Geotechnical Services
19a May Street Parkes NSW 2870

PROJECT: Dargues Reef Gold Project



Job Number: 095-094
Laboratory Number: 59211
Sample Source: TP 14 - Upstream Northern Bank (0.3m - 1.0m)
Sample Description: SANDY CLAY: orange-brown, medium plasticity, fine to coarse sand, trace of fine to medium gravel.
Maximum Dry Density: 1.68 t/m³
Optimum Moisture Content: 19.0 %
Oversize Material: 19 mm
% Oversize: 0 %
Date Tested: 21.07.10
Sampled By: Client
Compactive Effort: Standard
Test Method: AS 1289 5.1.1
No. of Layers: 3
Blows per Layer: 25
Mass of Rammer: 2.7 kg
Drop of Rammer: 300 mm
Zero Air Voids Line - Particle Density: 2.65 t/m³
Comments:

Approved Signatory:

Chris Lloyd

Date: 26.7.10

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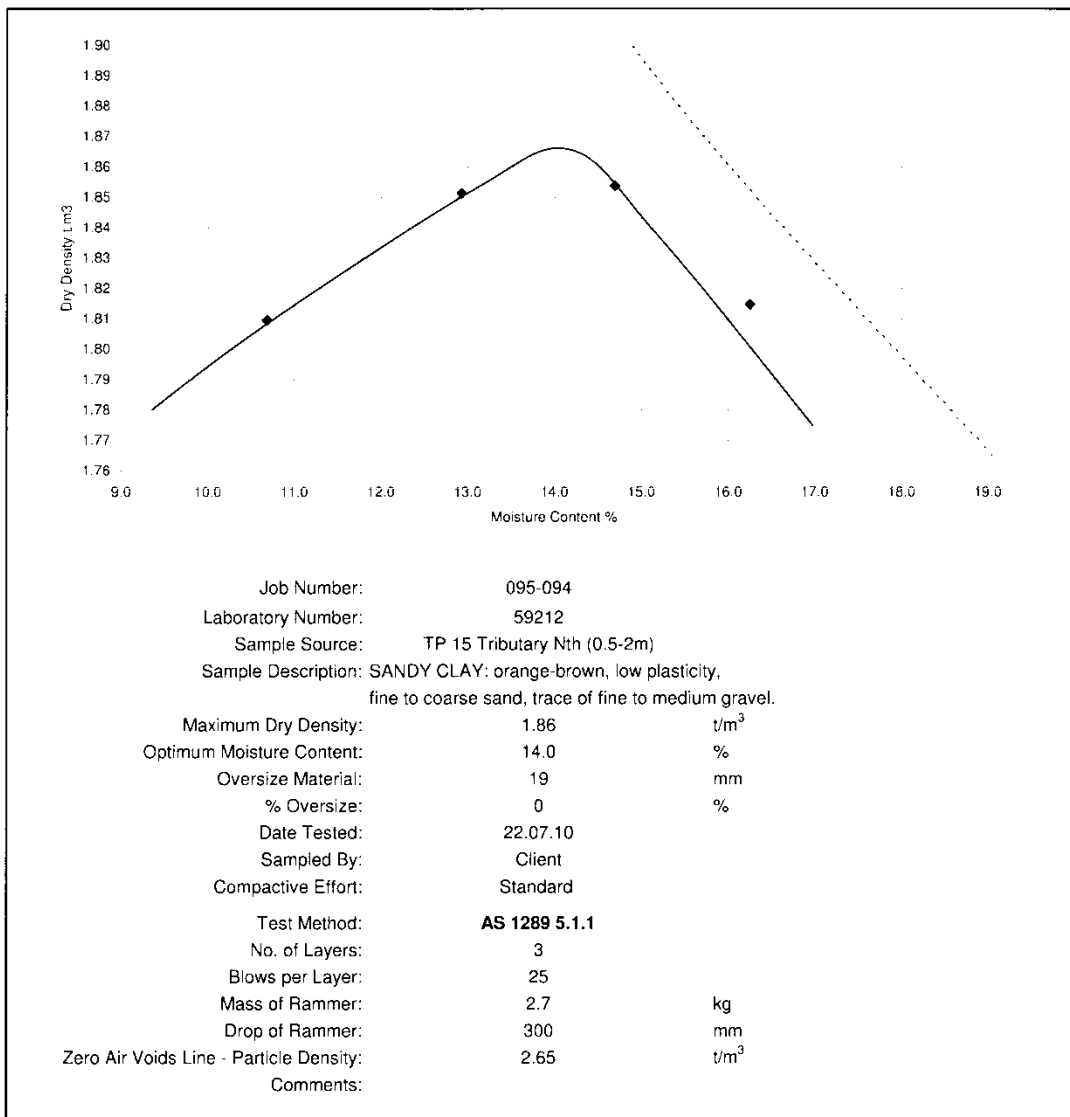
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DRY DENSITY/MOISTURE CONTENT RELATION

CLIENT: K & H Geotechnical Services
19a May Street Parkes NSW 2870
PROJECT: Dargues Reef Gold Project



Approved Signatory:

Chris Lloyd

Date: 23.07.10

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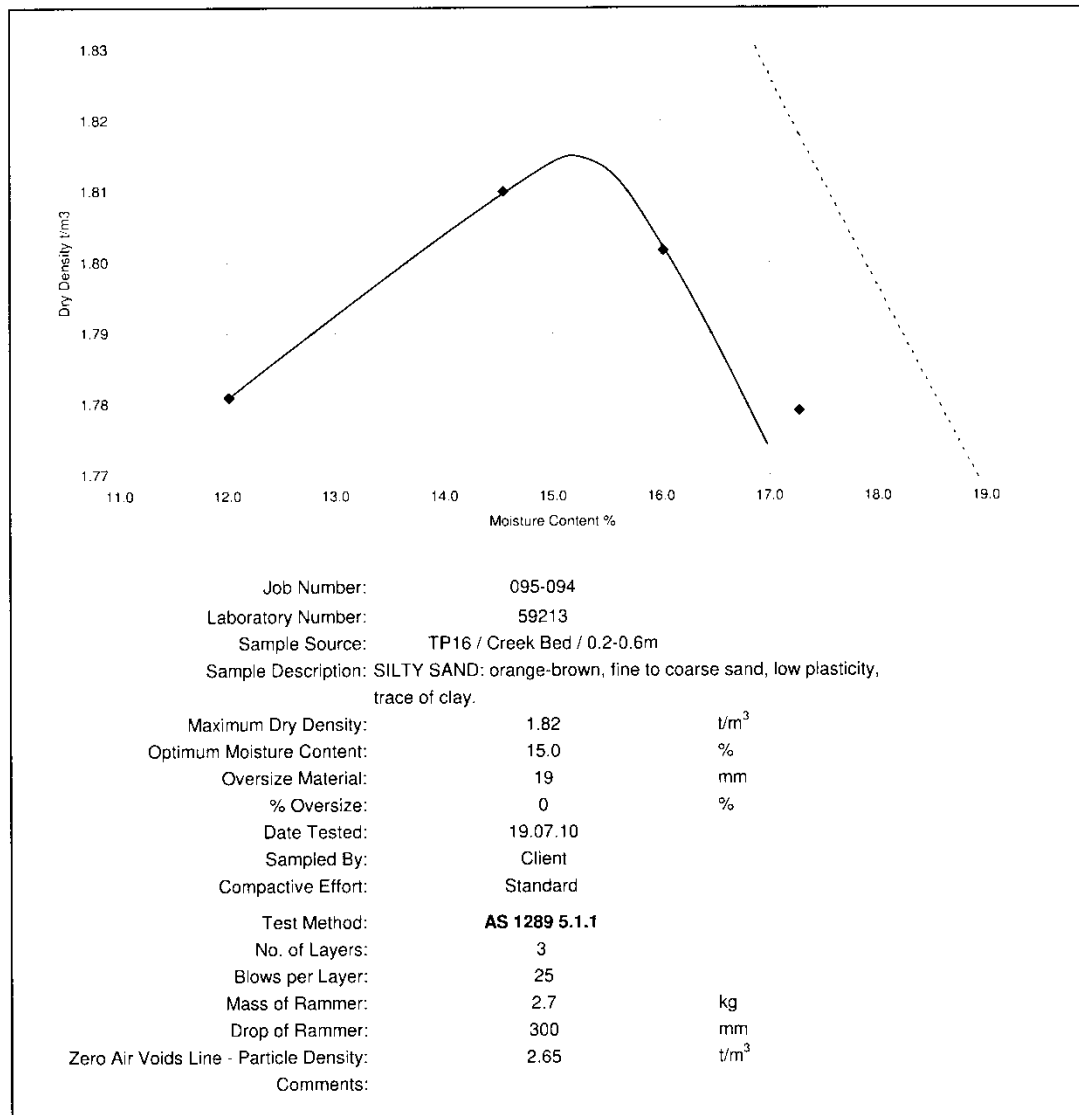
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DRY DENSITY/MOISTURE CONTENT RELATION

CLIENT: K & H Geotechnical Services
19a May Street Parkes NSW 2870
PROJECT: Dargues Reef Gold Project



Approved Signatory:

Chris Lloyd

Date: 26.7.10

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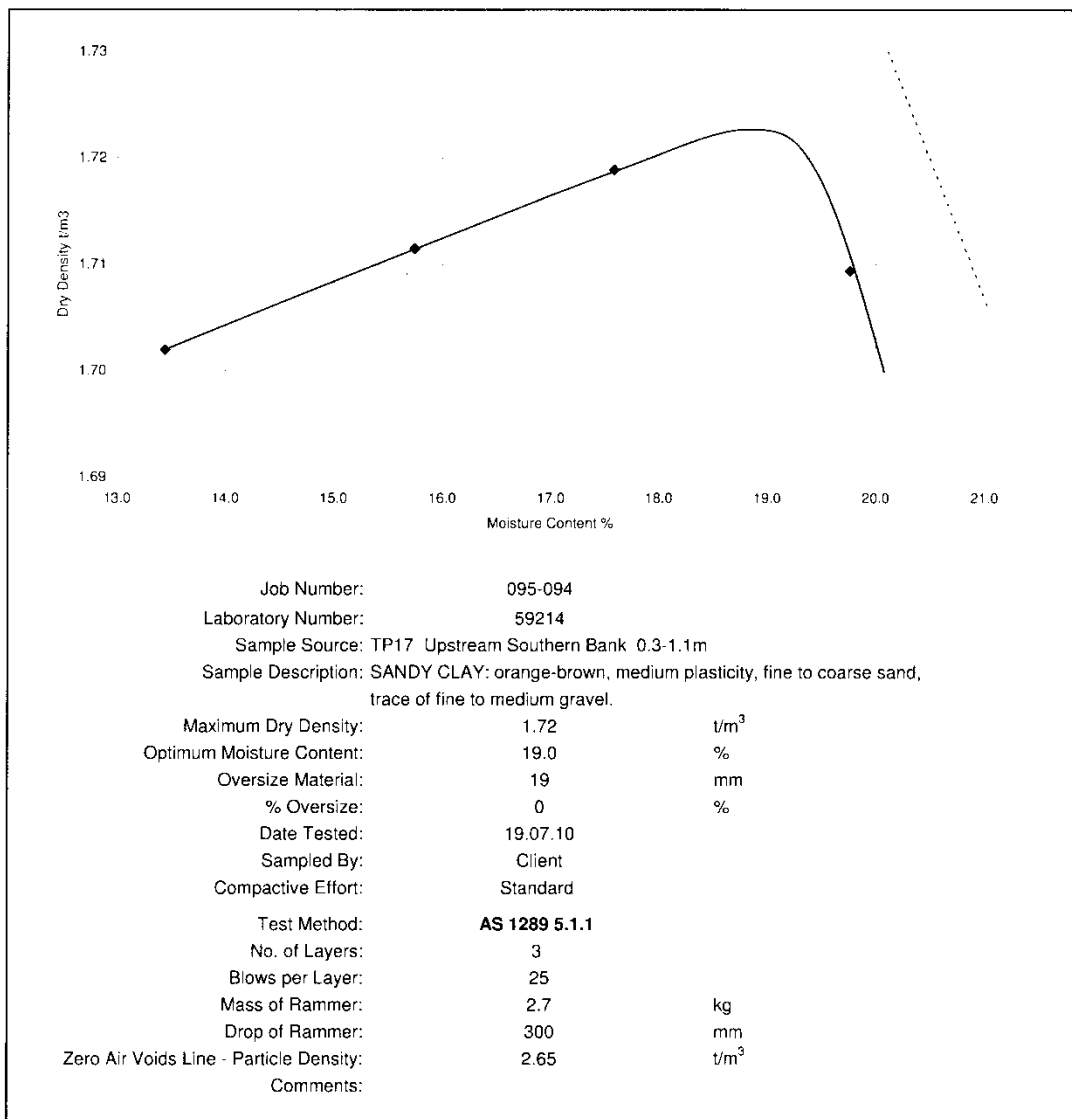
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CEN 461 002 9597 1012

DRY DENSITY/MOISTURE CONTENT RELATION

CLIENT: K & H Geotechnical Services
19a May Street Parkes NSW 2870
PROJECT: Dargues Reef Gold Project



Approved Signatory:

Chris Lloyd

Date: 26.7.10

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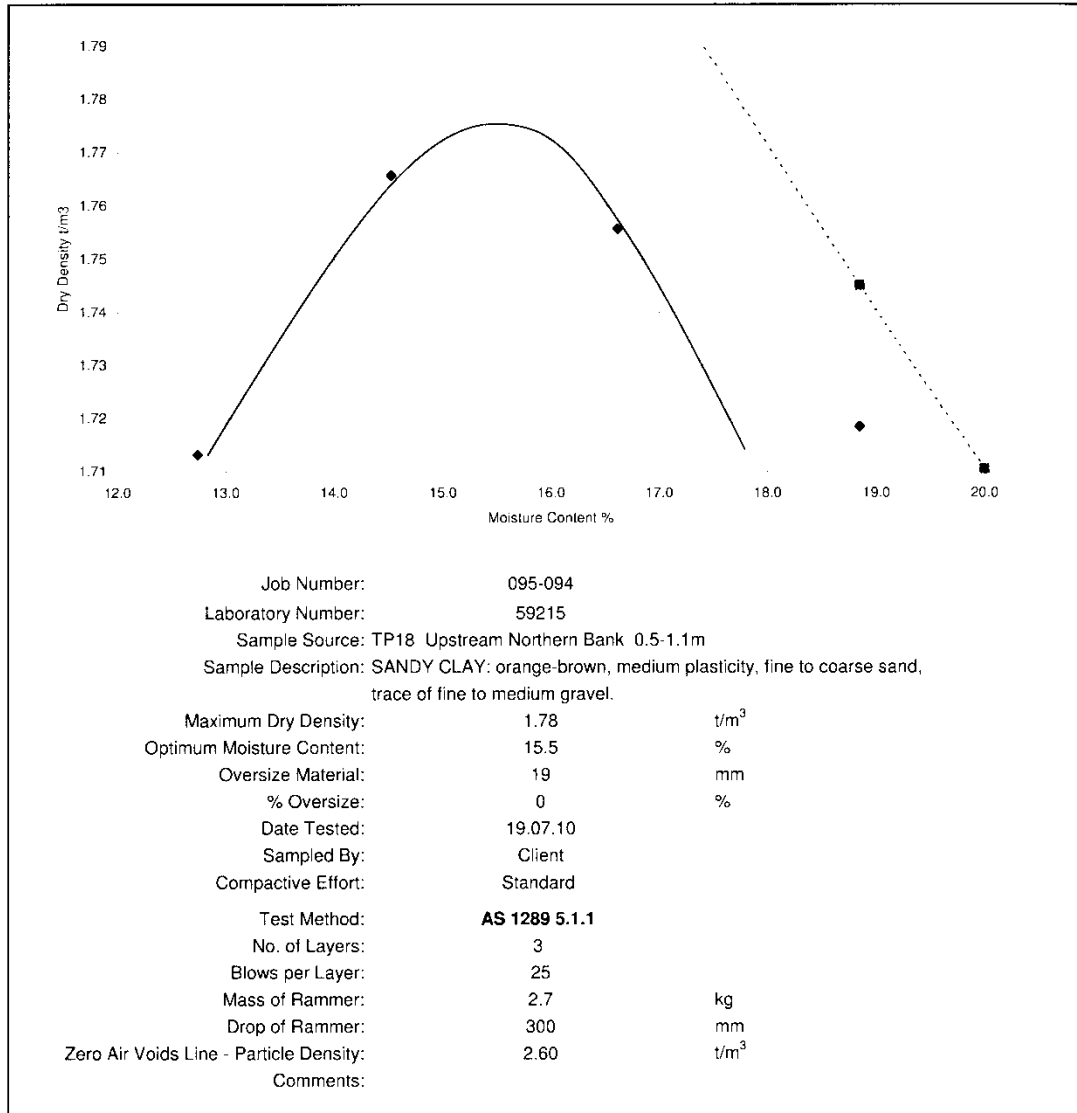
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ABN: 44 000 464 376
Tel: 461 302 4597/5349
Fax: 461 302 4597/5412

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Rockdale DC NSW 2216
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DRY DENSITY/MOISTURE CONTENT RELATION

CLIENT: K & H Geotechnical Services
19a May Street Parkes NSW 2870
PROJECT: Dargues Reef Gold Project



Approved Signatory:

Chris Lloyd

Date: 21.7.10

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TEST CERTIFICATE

For the purpose of this test certificate, the test results are based on the assumption that the sample is representative of the material being tested. The test results are based on the assumption that the sample is representative of the material being tested. The test results are based on the assumption that the sample is representative of the material being tested.

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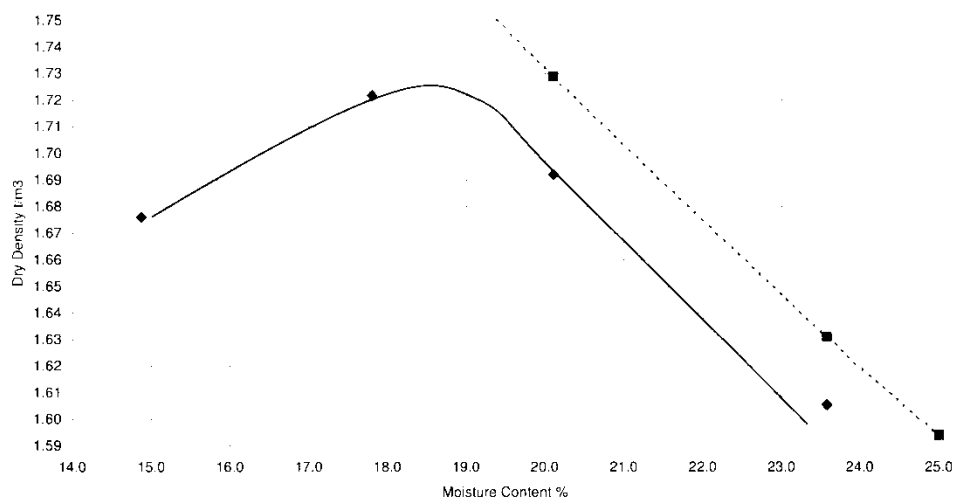
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DRY DENSITY/MOISTURE CONTENT RELATION

CLIENT: K & H Geotechnical Services

19a May Street Parkes NSW 2870

PROJECT: Dargues Reef Gold Project



Job Number: 095-094

Laboratory Number: 59216

Sample Source: TP20 - Upstream Southern Bank (0.5m - 1.1m)

Sample Description: SANDY CLAY: light-brown, low medium plasticity, fine to coarse sand, trace of fine to medium gravel.

Maximum Dry Density: 1.73 t/m³

Optimum Moisture Content: 18.5 %

Over-size Material: 19 mm

% Over-size: 0 %

Date Tested: 21.07.10

Sampled By: Client

Compactive Effort: Standard

Test Method: AS 1289 5.1.1

No. of Layers: 3

Blows per Layer: 25

Mass of Rammer: 2.7 kg

Drop of Rammer: 300 mm

Zero Air Voids Line - Particle Density: 2.65 t/m³

Comments:

Approved Signatory:

Chris Lloyd

Date: 26.7.10

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Accreditation No. 1459

File C:\Electronic Excel Reports\AS 1289 5.1.1. 5.2.1 Maximum Dry Density Moisture Content Relation, Issue 2 May 2010, JL

TEST CERTIFICATE

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EMERSON CRUMB TEST

CLIENT: K & H Geotechnical Services
19a May Street
PROJECT: Dargues Reef Gold Project

Laboratory Number:	59216
Sample Source:	TP20 - Upstream Southern Bank (0.5m - 1.1m)
Sample Description:	SANDY CLAY: light-brown, low medium plasticity, fine to coarse sand, trace of fine to medium gravel.
1. IMMERSION	
Does not slake	→ Class 7 swells (Organic Soils) <input type="checkbox"/>
Slakes <input checked="" type="checkbox"/>	Class 8 does not swell (Laterised) <input type="checkbox"/>
2. COMPLETE DISPERSION	
Class 1 complete	<input type="checkbox"/>
Class 2 partial	<input type="checkbox"/>
No Dispersion	<input checked="" type="checkbox"/>
3. REMOULDING	
Class 3 disperses	<input type="checkbox"/>
Does not disperse	<input checked="" type="checkbox"/>
4. CARBONATE & GYPSUM (Acid Indicator)	
Class 4 present	<input type="checkbox"/>
Absent	<input checked="" type="checkbox"/>
5. VIGOROUS SHAKING	
Class 5 disperses	<input checked="" type="checkbox"/>
Class 6 no dispersion	<input type="checkbox"/>
EMERSON CLASS NO.: <u>5</u>	
Water used:	Distilled water at 20°C
Date Tested:	23.7.10
Tested By:	HA
Sampled By:	Client
Test Procedure:	AS 1289 3.8.1
Job Number:	095-094

Approved Signatory: 

Chris Lloyd

Date: 26.7.10

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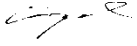
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24 Bermill Street (PO Box 2014)
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Australia

EMERSON CRUMB TEST

CLIENT: K & H Geotechnical Services
19a May Street
PROJECT: Dargues Reef Gold Project

Laboratory Number:	59215		
Sample Source:	TP18 Upstream Northern Bank 0.5-1.1m		
Sample Description:	SANDY CLAY: orange-brown, medium plasticity, fine to coarse sand, trace of fine to medium gravel.		
1. IMMERSION			
Does not slake	→	Class 7 swells (Organic Soils)	<input type="checkbox"/>
Slakes	<input checked="" type="checkbox"/>	Class 8 does not swell (Laterised)	<input type="checkbox"/>
2. COMPLETE DISPERSION			
Class 1 complete	<input type="checkbox"/>		
Class 2 partial	<input type="checkbox"/>		
No Dispersion	<input checked="" type="checkbox"/>		
3. REMOULDING			
Class 3 disperses	<input checked="" type="checkbox"/>		
Does not disperse	<input type="checkbox"/>		
4. CARBONATE & GYPSUM (Acid Indicator)			
Class 4 present	<input type="checkbox"/>		
Absent	<input type="checkbox"/>		
5. VIGOROUS SHAKING			
Class 5 disperses	<input type="checkbox"/>		
Class 6 no dispersion	<input type="checkbox"/>		
EMERSION CLASS NO.:	<u>3</u>		
Water used:	Distilled water at 20°C	Date Tested:	23.7.10
Tested By:	HA	Sampled By:	Client
Test Procedure:	AS 1289 3.8.1	Job Number:	095-094

Approved Signatory: 

Chris Lloyd

Date: 26.7.10

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