

RUM JUNGLE RESOURCES
WATERBORE STUDY
FOR THE
BRUNCHILLY PHOSPHATE PROJECT

by

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EL30223

RN032510

NTGS Quantitative test - Yes

CSIRO/Vale tested – No

TD 128 m

Water Bearing Interval

98 - 120 m

SWL

64.8 m

Driller's Log

0 – 3 m Blacksoil

3 – 36 m Limestone and Clay

36 – 98 m Limestone

98 – 128 m No Circulation Limestone fractured and cavities

Stratigraphy from Tickell

No Information

Comments

Quantitative_analysis and waterbores_tested

RN004519

NTGS Quantitative test - No

CSIRO/Vale tested – No

TD 76.2 m

Water Bearing Interval

No information

SWL

No information

Driller's Log

No information

Stratigraphy from Tickell

No Information

Comments

RN001199

NTGS Quantitative test - No

CSIRO/Vale tested – No

TD 77.1 m

Water Bearing Interval

No information

SWL

No information

Driller's Log

No information

Stratigraphy from Tickell

No Information

Comments

Howards_waterbores_testings

RN009448

NTGS Quantitative test - No

CSIRO/Vale tested – No

TD 78 m

Water Bearing Interval

72.5 m

SWL

66.5 m

Driller's Log

0 – 18 m Clay

18 – 78 m Dolomite

Stratigraphy from Tickell

No Information

Comments

RN021119

NTGS Quantitative test - Yes

CSIRO/Vale tested – No

TD 160 m

Water Bearing Interval

No information

SWL

No information

Driller's Log

0 – 1 m Clay

1 – 3 m Clay and Sand

3 – 48 m Mudstone and seams of clay

48 – 58 m Limestone and seams of clay

58 – 72 m Coloured Limestone

72 – 93 m Black clay

93 – 160 m Grey and white Limestone

Stratigraphy from Tickell

No Information

Comments

Quantitative_analysis and waterbores_tested

RN001198

NTGS Quantitative test - No

CSIRO/Vale tested – No

TD 92.9 m

Water Bearing Interval

No information

SWL

No information

Driller's Log

No information

Stratigraphy from Tickell

No Information

Comments

RN033966

NTGS Quantitative test - No

CSIRO/Vale tested – No

TD 108 m

Water Bearing Interval

90 - 102 m

SWL

55.6 m

Driller's Log

0 – 1 m Blacksoil

1 – 5 m Clay

5 – 9 m Clay and Sand

9 – 17 m Siltstone sand and clay

17 – 30 m Siltstone and Limestone

30 – 45 m not recorded

Stratigraphy from Tickell

No Information

Comments

RN009447

NTGS Quantitative test - Yes

CSIRO/Vale tested – No

TD 75.5 m

Water Bearing Interval

69.5 – 71.5 m

SWL

65 m

Driller's Log

0 – 27 m Siltstone

27 – 36 m Limestone

36 – 72 m Dolomite

72 – 75.5 m Sandstone

Stratigraphy from Tickell

No Information

Comments

Rio_waterbores_testings

RN001202

NTGS Quantitative test - No

CSIRO/Vale tested – No

TD 62.78 m

Water Bearing Interval

No information

SWL

No information

Driller's Log

No information

Stratigraphy from Tickell

No Information

Comments

RN007887

NTGS Quantitative test - Yes

CSIRO/Vale tested – No

TD 121.9 m

Water Bearing Interval

91.4 – 115.8 m

SWL

68.58 m

Driller's Log

0 – 3.1 m Clay

3.1 – 45.72 m Sandstone

45.72 – 121.9 m Limestone

Stratigraphy from Tickell

No Information

Comments

Howards_waterbores_testings

RN021756

NTGS Quantitative test - No

CSIRO/Vale tested – No

TD 81.68 m

Water Bearing Interval

No information

SWL

64 m

Driller's Log

0 – 1.8 m Black soil

1.8 – 42.7 m Conglomerate

42.7 – 44.5 m White porous stones with caves

44.5 – 62.5 m Ribbon stone and limestone

62.5 – 79 m Limestone

79 – 81.68 m Quartzite

Stratigraphy from Tickell

No Information

Comments

RN021756

NTGS Quantitative test - No

CSIRO/Vale tested – No

TD 79 m

Water Bearing Interval

70 - 73 m

SWL

42 m

Driller's Log

0 – 6 m Clay

6 – 9 m Limestone

9 – 42 m Siltstone and Clay

42 – 54 m Siltstone and Limestone

54 – 79 m Limestone and Dolomite

Stratigraphy from Tickell

No Information

Comments

RN027947

NTGS Quantitative test - Yes

CSIRO/Vale tested – No

TD 105.5 m

Water Bearing Interval

72 – 98 m

SWL

46 m

Driller's Log

0 – 4 m Black soil

4 – 20 m Clay

20 – 40 m Yellow Siltstone

40 – 70 m Red Siltstone

70 – 105.5 m Limestone

Stratigraphy from Tickell

No Information

Comments

Rio_waterbores_testings

EL30222

RN000313

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 85.3 m

Water Bearing Interval

63.1 – 73.4 m

SWL

50 m

Driller's Log

0 – 1.2 m Black Soil

1.2 – 6.1 m Soft Limestone

6.1 – 9.1 m Limestone and Chalk

9.1 – 12.2 m Chalk

12.2 – 15.2 m Limestone and slate

15.2 – 22.9 m Red clay and slate

22.9 – 24.7 m Limestone and slate

24.7 – 63.1 m Red clay and slate

63.1 – 64 m Limestone

64 – 73.5 m Red clay and slate

73.5 – 83.2 m Limestone

83.2 – 85.3 m Quartzite

Stratigraphy from Tickell

No Information

Comments

RN000376

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 57.9 m

Water Bearing Interval

53 m

SWL

45.7 m

Driller's Log

0 –2.1 m Black Soil

2.1 – 12.2 m Porous Limestone

12.2 – 53 m Yellow clay and Limestone

53 – 57.9 m Limestone

Stratigraphy from Tickell

No Information

Comments

RN033967

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 102 m

Water Bearing Interval

80 – 94 m

SWL

58.5 m

Driller's Log

0 –1 m Black Soil

1 – 3 m Clay

3 –12 m Clay and Sand

12 – 27 m Sand and Limestone

27 – 30 m Limestone

30 – 45 m Clay

45 – 48 m Limestone and Dolomite

48 – 63 m Clay Limestone and Dolomite

63 – 102 m Limestone and Dolomite

Stratigraphy from Tickell

No Information

Comments

RN000134

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 78.9 m

Water Bearing Interval

69.18 m

SWL

63.39 m

Driller's Log

0 –4.4 m Black Soil

4.4 – 11.9 m Yellow Clay

11.9 – 17.1 m Limestone

17.1 – 20.4 m Red Clay

20.4 – 27.4 m Yellow clay

27.4 – 40.8 m White clay and soft limestone

40.8 – 55.8 m Yellow clay

55.8 – 78.9 m Quartzite

Stratigraphy from Tickell

No Information

Comments

RN028120

NTGS Quantitative test - Yes

CSIRO/Vale tested – NO

TD 113.5 m

Water Bearing Interval

103.5 – 110 m

SWL

56 m

Driller's Log

0 –3 m Black Soil

3 – 15 m Clay

15 – 50 m Siltstone

50 – 85 m Limestone and Clay

85 – 113.5 m Limestone

Stratigraphy from Tickell

No Information

Comments

Rio_waterbores_testings

RN000127

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 65.5 m

Water Bearing Interval

60.3 m

SWL

57.3 m

Driller's Log

0 –1.2 m Black Soil

1.2 – 10.7 m Yellow Clay

10.7 – 18.3 m Yellow Limestone

18.3 – 19.8 m Red Volcanic rock

19.8 – 35.1 m Muddy yellow clay and limestone

35.1 – 46.6 m Clay

46.6 – 59.1 m Yellow limestone and quartzite

59.1 – 60.4 m hard yellow limestone

60.4 – 65.2 m porous limestone

65.2 – 65.5 m Quartzite

Stratigraphy from Tickell

No Information

Comments

RN007673

NTGS Quantitative test - Yes

CSIRO/Vale tested – NO

TD 106.68 m

Water Bearing Interval

94.48 m

SWL

82.29 m

Driller's Log

0 –3.1 m Clay

3.1 – 6.1 m Clay and gravel

6.1 – 36.6 m Clay

36.6 – 100.6 m Clay Limestone

100.6 – 106.6 m Limestone gravel

Stratigraphy from Tickell

No Information

Comments

Howards_waterbores_testings

RN007674

NTGS Quantitative test - Yes

CSIRO/Vale tested – NO

TD 152.4 m

Water Bearing Interval

99.3 m

SWL

83.8 m

Driller's Log

0 –3.1 m Sand

3.1 – 53.3 m Clay and sand

53.3 – 57.9 m Limestone

57.9 – 152.4 m Limestone

Stratigraphy from Tickell

No Information

Comments

Howards_waterbores_testings

RN010132

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 106.68 m

Water Bearing Interval

No information

SWL

No information

Driller's Log

0 –3.1 m Red Sandy clay

3.1 – 53.3 m Limestone

53.3 – 64.6 m Red sandy clay

64.6 – 106.6 m Siltstone and Quartz

Stratigraphy from Tickell

No Information

Comments

RN028221

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 86 m

Water Bearing Interval

75 – 77 m

SWL

68 m

Driller's Log

0 –3 m Black Soil

3 – 45 m Siltstone and Clay

45 – 75 m Limestone and Clay

75 – 86 m Limestone and Chert

Stratigraphy from Tickell

No Information

Comments

RN025561

NTGS Quantitative test - Yes

CSIRO/Vale tested – NO

TD 84 m

Water Bearing Interval

74 m – 80 m

SWL

61 m

Driller's Log

0 –3 m Back Soil

3 – 72 m Clay

72 – 84 m Limestone

Stratigraphy from Tickell

No Information

Comments

Rio_waterbores_testings

RN000192

NTGS Quantitative test - No

CSIRO/Vale tested – No

TD 90.8 m

Water Bearing Interval

66.1 – 88.69 m

SWL

17.6 m

Driller's Log

0 – 1.2 m Soil

1.2 – 2.4 m Sandy Clay

2.4 – 5.5 m Volcanic Rock

5.5 – 10.4 m Sandstone and Quartz

10.4 – 18 m Red Volcanic Rock

18 – 36.3 m Sandy

36.3 – 39.3 m Quartzite

39.3 – 55.8 m Volcanic Rock

55.8 – 65.8 m Limestone

65.8 – 67.1 m Volcanic Rock

67.1 – 75 m Limestone

75 – 76.8 m Quartzite and Limestone

76.8 – 77.1 m Shale Sandy

77.1 – 78.6 m Limestone

78.6 – 79.1 m Quartzite

79.1 – 80.2 m Red Clay with ribbon stone

80.2 – 82 m Grey Shale

82 – 88.7 m Limestone with quartzite

88.7 – 89.6 m hard quartzite

89.6 – 90.8 m Limestone

Stratigraphy from Tickell

No Information

Comments

RN0004522

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 76.2 m

Water Bearing Interval

No Information

SWL

44.03 m

Driller's Log

No information

Stratigraphy from Tickell

No Information

Comments

RN023332

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 85 m

Water Bearing Interval

73 m

SWL

67 m

Driller's Log

0 – 6 m Clay

6 – 12 m Calcrete

12 – 24 m Clay

24 – 85 m Sandstone

Stratigraphy from Tickell

No Information

Comments

RN027949

NTGS Quantitative test - YES

CSIRO/Vale tested – NO

TD 110.5 m

Water Bearing Interval

99 - 105 m

SWL

49.3 m

Driller's Log

0 – 3 m Black Soil

3 – 30 m Clay

30 – 45 m Siltstone

45 – 65 m Limestone and Chert

65 – 85 m Broken Limestone

85 – 95 m Limestone

95 – 106 m Limestone and Chert

106 – 110.5 m Limestone

Stratigraphy from Tickell

No Information

Comments

Rio_waterbores_testings

RN020413

NTGS Quantitative test - YES

CSIRO/Vale tested – NO

TD 91 m

Water Bearing Interval

65 m

SWL

61 m

Driller's Log

0 – 6 m Black Soil

6 – 30 m Sandy Clay

30 – 76 m Limestone

76 – 91 m Lost circulation

Stratigraphy from Tickell

No Information

Comments

Howards_waterbores_testings

EL30224

RN034659

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 114 m

Water Bearing Interval

93 – 102 m

SWL

77.4 m

Driller's Log

0 – 6 m Sandy Clay

6 – 24 m Sandstone

24 – 33 m Clay and Chert

33 – 60 m Chert Limestone and Clay

60 – 64 m Siltstone

64 – 90 m Fractured Sandstone

90 – 105 m Sandstone

105 – 114 m Siltstone

Stratigraphy from Tickell

No Information

Comments

RN022552

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD No Information

Water Bearing Interval

No Information

SWL

No Information

Driller's Log

No Information

Stratigraphy from Tickell

No Information

Comments

This bore have been abandoned

RN023908

NTGS Quantitative test - YES

CSIRO/Vale tested – NO

TD 160.8 m

Water Bearing Interval

78 m

SWL

73 m

Driller's Log

0 – 21 m Sandy Clay

21 – 57 m Limestone, sandstone with siltstone bands

57 – 79 m Limestone

79 – 160.8 m Lost circulation

Stratigraphy from Tickell

No Information

Comments

Rio_waterbores_testings

RN020414

NTGS Quantitative test - YES

CSIRO/Vale tested – NO

TD 111 m

Water Bearing Interval

96 – 100 m

SWL

84 m

Driller's Log

0 – 45 m Sandy Clay

45 – 57 m Limestone Clay

57 – 111 m Limestone

Stratigraphy from Tickell

No Information

Comments

Howards_waterbores_testings

RN022483

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 103.6 m

Water Bearing Interval

No information

SWL

70.1 m

Driller's Log

No information

Stratigraphy from Tickell

No Information

Comments

RN001041

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD No Information

Water Bearing Interval

No Information

SWL

No Information

Driller's Log

No Information

Stratigraphy from Tickell

No Information

Comments

This bore have been abandoned

RN001044

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD No Information

Water Bearing Interval

No Information

SWL

No Information

Driller's Log

No Information

Stratigraphy from Tickell

No Information

Comments

This bore have been abandoned

RN033961

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 132 m

Water Bearing Interval

87 - 96 m

SWL

75.6 m

Driller's Log

0 – 20 m Clay

20 – 54 m Clay and, sandstone bands

57 – 79 m Limestone

79 – 160.8 m Limestone and dolomite bands

Stratigraphy from Tickell

No Information

Comments

RN007261

NTGS Quantitative test - YES

CSIRO/Vale tested – NO

TD 167.6 m

Water Bearing Interval

66.1 – 167.6 m

SWL

66.1 m

Driller's Log

0 – 0.3 m Sand and gravel

0.3 – 10.6 m Shale with Clay

10.6 – 66.1 m Shale

66.1 – 67.1 m Quartzite and shale

67.1 – 85.3 m Shale

85.3 – 85.6 m Siltstone

85.6 – 167.6 m Shale

Stratigraphy from Tickell

No Information

Comments

Howards_waterbores_testings

RN000180

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 96.3 m

Water Bearing Interval

82.6 m

SWL

60.9 m

Driller's Log

0 – 1.8 m Red soil

1.8 – 67 m Red brown, yellow and white clay, chalk

67 – 96.3 m Quartzite

Stratigraphy from Tickell

No Information

Comments

RN000229

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 94.48 m

Water Bearing Interval

77.1 m

SWL

72.2 m

Driller's Log

0 – 1.2 m Surface soil

1.2 – 6.1 m Red baked sandstone

6.1 – 27.4 m hard chalk

27.4 – 48.78 m Ribbon stone and clay

48.78 – 76.2 m Sandstone and conglomerate

76.2 – 94.48 m Sandstone

Stratigraphy from Tickell

No Information

Comments

RN005672

NTGS Quantitative test - No

CSIRO/Vale tested – NO

TD 75.28 m

Water Bearing Interval

No information

SWL

No information

Driller's Log

0 – 2.4 m Black soil

2.4 – 13.7 m Limestone and clay

13.7 – 16.2 m Limestone

16.2 – 27.4m Limestone and sandstone

27.4 –30.2 m Yellow clay

30.2 – 35.7 m Limestone

35.7 – 48.2 m Red clay

48.2 – 48.8 m Yellow clay

48.8 – 57.9 m hard white stone

57.9 – 58.5 m Sandstone very hard

58.5 – 59.1 m Yellow clay

59.1 – 68 m Sandstone

68 – 75.3 m Ribbon stone

Stratigraphy from Tickell

No Information

Comments