FINAL 27/09/2018

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# GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **CRR901**

Sheet 1 of 3

REFERENCE No **H13105**

PROJECT Cross River Rail (CRR) Project - Additional Geotechnical Investigation

LOCATION Salisbury Station — COORDINATES 502212.0 E; 6952243.9 N

PROJECT No FG6470 — SURFACE RL 10.69m — PLUNGE 90° — DATE STARTED 02/07/2018 — GRID DATUM MGA94

JOB No — HEIGHT DATUM AHD — BEARING ° — DATE COMPLETED 04/07/2018 — DRILLER Geodrill

| DEPTH (m) | R.L. (m) | SAMPLE | MATERIAL DESCRIPTION | USCS WEATHERING | ADDITIONAL DATA AND TEST RESULTS | SAMPLES TESTS |
|---|---|---|---|---|---|---|
| 0 | 10.29 | A | Silty Gravelly SAND (Fill) | (SM) | | DIST |
| | | B | Grey and brown, dry, loose, fine to medium grained. Fine to medium sub-angular to sub-rounded gravel. Some cobbles. | | | DIST |
| | 9.99 | C | | (CI) | | DIST |
| | | D | | | | DIST |
| 1 | | | Sandy CLAY (Fill) Grey, brown, and red-brown, dry, firm. Medium plasticity. Fine to medium grained sand. Trace fine to medium gravel. | (ML) | | |
| | 9.09 | E | Sandy SILT (Alluvium) Grey-brown, and brown, dry, stiff. Low plasticity. Trace medium, rounded gravel. | | 3, 6, 5<br>N=11<br>LL=70% PI= 48%<br>MC=22.6% LS= 18%<br><75µm= 76% | SPT |
| 2 | | F | Silty CLAY with Sand (Alluvium) Grey-brown and red-brown, moist, stiff. High plasticity. | | MC=25.5% Oedometer<br>WD= 1.98 t/m3<br>Su(PP)=240 kPa | U50 |
| 3 | | | from 3.0m: Becoming Sandy CLAY, yellow, red, orange layers throughout | (CH) | | |
| | | G | | | 3, 4, 5<br>N=9<br>LL=51% PI= 32%<br>MC=26.9% LS= 11%<br><75µm= 67% | SPT |
| 4 | | | | | | |
| | | H | from 4.5m: Becoming very stiff. | | 7, 11, 15<br>N=26 | SPT |
| 5 | 5.49 | | | | | |
| | | I | Sandy CLAY (Alluvium) Grey, moist, hard. Medium plasticity. Trace wood fragments. | | 14, 20, 30/135mm<br>LL=37% PI= 19%<br>MC=22.8% LS= 7%<br><75µm= 49% | SPT |
| 6 | | | | CI | | |
| 7 | | J | from 7.3m: becoming brown and grey, high plasticity. | | 9, 26, 30/130mm<br>LL=52% PI= 31%<br>MC=20.3% LS= 9%<br><75µm= 98% | SPT |
| 8 | 2.69 | | Clayey SAND (Alluvium) Grey with minor brown layers, moist, very dense. | | | |
| | | K | | (SC) | 15, 28, 30/85mm<br>MC=21.2%<br><75µm= 25% | SPT |
| 9 | 1.19 | | | | | |
| | 0.69 | | Silty SAND (Alluvium) | (SM) | | |

Continued on next sheet

REMARKS: Rjbw - Woogaroo Subgroup. Standpipe piezometer installed.

| LOGGED BY | REVIEWED BY |
|---|---|
| MH | S.Foley |

TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

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# GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **CRR901**

Sheet 2 of 3

REFERENCE No **H13105**

PROJECT Cross River Rail (CRR) Project - Additional Geotechnical Investigation

LOCATION Salisbury Station — COORDINATES 502212.0 E; 6952243.9 N

PROJECT No FG6470 — SURFACE RL 10.69m — PLUNGE 90° — DATE STARTED 02/07/2018 — GRID DATUM MGA94

JOB No — HEIGHT DATUM AHD — BEARING ° — DATE COMPLETED 04/07/2018 — DRILLER Geodrill

| DEPTH (m) | R.L. (m) | RQD ( ) % / CORE REC % | SAMPLE | MATERIAL DESCRIPTION | USCS / WEATHERING | ADDITIONAL DATA AND TEST RESULTS | SAMPLES / TESTS |
|---|---|---|---|---|---|---|---|
| 11 | | | L | Silty SAND (Alluvium)<br>Cont'd<br>Orange-brown and grey, wet, dense to very dense. Fine to medium grained. Trace clay.<br>from 11.0m: fine to coarse grained | | 30/125mm | SPT |
| 12 | | | M | | (SM) | 10, 19, 23<br>N=42<br>MC=16.3%<br><75µm= 24% | SPT |
| | | | | from 12.50m: Trace fine to medium gravel | | | |
| 13 | -2.61 | | N | | | 22, 30, 30/90mm | SPT |
| 14 | -3.31 | | | Silty CLAY (Alluvium)<br>Grey, moist, very stiff to hard, high plasticity. | (CH) | | |
| | | | O | Clayey SAND (Alluvium)<br>Grey mottled red-brown, moist, very dense. Medium grained. | (SC) | 30/55mm | SPT |
| 15 | -4.81 | | | | | | |
| 16 | | | P | Silty CLAY (Residual)<br>Grey and brown-grey, moist, hard. High plasticity. Trace fine grained sand. | (CH) | 30/105mm | SPT |
| 17 | -7.01 | | Q | | | 30/65mm | SPT |
| 18 | | (56) | | SANDSTONE (Rjbw)<br>HW: Grey and pale grey, fine grained, very thinly to medium bedded, very low to low strength. Some fine to coarse grained layers up to 150mm thick. Some interlaminated siltstone. | HW<br>XW<br>HW<br>XW<br>HW | 17.92m-17.93m: XW Band, Clay<br>18.38m-18.46m: XW Band, Sandy Clay | D (17.96m)<br>Is(50)=0.03 MPa<br>A (17.97m)<br>Is(50)=0.17 MPa |
| 19 | | | | 19.0m - 19.5m: Conglomerate layer 500mm | XW<br>HW | 19.01m-19.19m: XW Band, Clayey Sand | Is(50)=0.18 MPa<br>D (18.70m)<br>Is(50)=0.14 MPa<br>A (18.71m) |
| | -9.31 | | | | | | Is(50)=0.14 MPa<br>D (19.70m)<br>Is(50)=0.13 MPa<br>A (19.71m) |

INTACT STRENGTH: EH VH H M L VL EL — DEFECT SPACING: EC VC C M W VW EW

Continued on next sheet

REMARKS: Rjbw - Woogaroo Subgroup. Standpipe piezometer installed.

| LOGGED BY | REVIEWED BY |
|---|---|
| MH | S.Foley |

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# GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **CRR901**

Sheet 3 of 3

REFERENCE No **H13105**

PROJECT Cross River Rail (CRR) Project - Additional Geotechnical Investigation

LOCATION Salisbury Station

COORDINATES 502212.0 E; 6952243.9 N

PROJECT No FG6470 | SURFACE RL 10.69m | PLUNGE 90° | DATE STARTED 02/07/2018 | GRID DATUM MGA94

JOB No | HEIGHT DATUM AHD | BEARING ° | DATE COMPLETED 04/07/2018 | DRILLER Geodrill

| DEPTH (m) | R.L. (m) | RQD ( ) % / CORE REC % | SAMPLE | MATERIAL DESCRIPTION | USCS WEATHERING | ADDITIONAL DATA AND TEST RESULTS | SAMPLES TESTS |
|---|---|---|---|---|---|---|---|
| | | | | **SANDSTONE (Rjbw)** | | | |
| | | 100 (42) | | HW: Cont'd | HW | Is(50)=0.04 MPa<br>Is(50)=0.15 MPa | D (20.50m)<br>A (20.51m) |
| 21 | | | | from 21.0m: yellow and grey | | 21.10m-21.18m: XW Band, Clay | |
| | | 100 | | from 21.60: grey | XW | | |
| | -11.21 | (72) | | | HW | | |
| 22 | | | | **SILTSTONE (Rjbw)**<br>MW: Grey and grey-brown, very thinly to medium bedded, mainly low to medium strength, interbedded fine to coarse grained sandstone layers up to 350mm. | | Is(50)=0.14 MPa<br>Is(50)=0.17 MPa | D (22.10m)<br>A (22.11m) |
| 23 | | | | from 22.35m: grey | HW | Is(50)=0.04 MPa<br>Is(50)=0.07 MPa | D (23.12m)<br>A (23.13m) |
| | | 100 (98) | | | | 23.30m-23.37m: XW Band, Sand | |
| 24 | | | | | | | |
| 25 | | | | | MW | Is(50)=0.14 MPa<br>Is(50)=0.42 MPa | D (24.92m)<br>A (24.93m) |
| 26 | -15.31 | | | **SANDSTONE (Rjbw)**<br>SW: Grey, fine to medium grained, thinly bedded, mainly low strength, some interlaminated siltstone. | | | |
| | | 100 (73) | | from 26.75m: dark grey grey, interbedded Siltstone layers up to 400mm thick. | MW | Is(50)=0.11 MPa<br>Is(50)=0.18 MPa | D (26.35m)<br>A (26.50m) |
| 27 | | | | from 26.95m: some interbedded and interlaminated carbonaceous layers. | SW<br>MW<br>SW<br>MW | | |
| | -17.26 | 100 | | Borehole completed at 27.95m | | Is(50)=0.04 MPa<br>Is(50)=0.27 MPa | D (27.91m)<br>A (27.92m) |
| 28 | | | | | | | |
| 29 | | | | | | | |

REMARKS: Rjbw - Woogaroo Subgroup. Standpipe piezometer installed.

| LOGGED BY | REVIEWED BY |
|---|---|
| MH | S.Foley |

TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

# Detailed Discontinuity Description Log

Queensland Government

*This form is intended for the detailed description of discontinuities and defects as measured in outcrop by line mapping, or as they occur downhole in drilled rock core. The descriptions and abbreviations used shall be in accordance with Australian Standard AS1726-1993 Geotechnical site investigations and TMR Geotechnical Terms and Symbols Form F:GEOT017/8.*

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Project Name** | **Cross River Rail - Stage 2** | | | | | **Project No.** | **FG6470** | | |
| **Site ID / Borehole No.** | **CRR901** | | | | | **Surface RL** | **10.69** | | |
| **Geologist** | **MARK HAYS** | | | | | **Date** | **3/07/2018** | | |
| | | | | | | **Page** | **1** | **of** | **2** |

| Traverse Chainage; or Down hole depth (rock core) | Type LP / BP / FP / J etc. | Dip ° / Dip Direction °; or Angle ° from horizontal (rock core) | Planarity Stp / Un / Pl | Roughness Ro / Sm / Sl | Roughness Class I to IX | Aperture CD / OP / FL / Tl | Infilling Cn / St / Vr / Ct [1] | Zones [1] SZ / CZ / HFZ / AZ | Other |
|---|---|---|---|---|---|---|---|---|---|
| 17.90 | B | 5° | Pl | SM | VIII | CD | CN | | |
| 17.92 | B | 5° | Pl | SM | VIII | FL | Ct | CLAY 10MM | |
| 18.00 | B | 5° | Pl | SM | VIII | OP | | | |
| 18.10 | J | 70° | Pl | SM | VIII | OP | 100MM DECOMPOSED ZONE | | |
| 18.15 | J | 45° | Pl | SM | VIII | CD | CN | | |
| 18.20 | J | 60° | Pl | SM | VIII | CD | CN | | |
| 18.25 | B | 5° | Pl | SM | VIII | CD | CN | | |
| 18.33 | B | 5° | Pl | SM | VIII | CD | CN | | |
| 18.38 | B | 5° | Pl | SM | VIII | CD | CN | 250MM | EWELS ZONE |
| 18.63 | J | 45° | Un | SM | V | OP | CN | | |
| 19.15 | B | 5° | Pl | SM | VIII | FL | Ct | CLAY 10mm | SILTSTONE |
| 19.95 | B | 5° | Pl | Ro | VII | CD | CN | | |
| 20.19 | J | 20° | Un | Sm | V | CD | CN | | |
| 20.20 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 20.27 | J | 55° | Pl | Sm | VIII | CD | CN | | |
| 20.32 | B | 5° | Pl | Sm | VIII | OP | CN | | |
| 20.38 | B | 5° | Pl | Sm | VIII | OP | CN | | |
| 20.44 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 20.55 | B | 5° | Pl | Sm | VIII | OP | CN | | |
| 20.67 | B | 10° | Pl | Ro | VII | CD | CN | | |
| 20.80 | B | 5° | Un | Ro | IV | CD | CN | | |
| 20.83 | J | 30° | Pl | Ro | VII | OP | CN | | |
| 20.92 | B | 5° | Pl | Sm | VIII | CD | CN | 60mm DECOMPOSED | |
| 21.00 | B | 5° | Pl | Sm | VIII | OP | 90mm BROKEN ZONE | | |
| 21.17 | J | 30° | Un | Sm | V | OP | CN | | |
| 21.22 | B | 10° | Pl | Sm | VIII | OP | CN | | |
| 21.30 | B | 15° | Pl | Sm | VIII | OP | CN | | |
| 21.38 | B | 5° | Pl | Sm | VIII | OP | CN | | |
| 21.48 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 21.60 | 180mm | DECOMPOSED ZONE | | | | | | | |
| 21.87 | B | 5° | Un | Sm | V | CD | CN | | |

*Note:* 1. Describe zones and coatings in terms of composition and thickness (mm)

# Detailed Discontinuity Description Log

Queensland Government

*This form is intended for the detailed description of discontinuities and defects as measured in outcrop by line mapping, or as they occur downhole in drilled rock core. The descriptions and abbreviations used shall be in accordance with Australian Standard AS1726-1993 Geotechnical site investigations and TMR Geotechnical Terms and Symbols Form F:GEOT017/8.*

| **Project Name** | **Cross River Rail - Stage 2** | **Project No.** | **FG6470** |
|---|---|---|---|
| **Site ID / Borehole No.** | **CRR901** | **Surface RL** | |
| **Geologist** | **MARK HAYS** | **Date** | **3/07/2018** |
| | | **Page** | **2 of 2** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 21.90 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 22.23 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 23.20 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 23.28 | J | 60° | Pl | Sm | VIII | FL | 100mm BROKEN ZONE | | |
| 23.51 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 23.69 | B | 0° | Pl | Sm | VIII | CD | CN | | |
| 23.81 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 23.97 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 24.00 | B | 0° | Pl | Sm | VIII | CD | CN | | |
| 24.47 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 24.65 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 24.84 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 25.06 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 25.37 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 25.59 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 25.83 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 25.98 | B | 5° | Pl | Sm | VIII | FL | CLAY 20mm | | |
| 26.06 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 26.30 | B | 10° | Pl | Sm | VIII | CD | CN | | |
| 26.43 | B | 5° | Un | Sm | V | CD | CN | | |
| 26.51 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 26.75 | B | 5° | Pl | Sl | IX | CD | CN | | |
| 26.85 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 26.95 | B | 5° | Pl | Sm | VIII | OP | 20mm BZ | | |
| 27.21 | B | 5° | Pl | Ro | VII | CD | CN | | |
| 27.28 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 27.30 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 27.34 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 27.60 | J | 85° | Pl | Sm | VIII | CD | CN | start 27.5, end 27.75m | |
| 27.56 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 27.62 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 27.70 | B | 5° | Pl | Sl | IX | CD | Vr | CLAY | |
| 27.75 | B | 5° | Pl | Sm | VIII | CD | CN | 10mm | |
| 27.97 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| 27.94 | B | 5° | Pl | Sm | VIII | CD | CN | | |
| | | | | | | | | | |
| | | | | | | | | | |

*Note:* 1. Describe zones and coatings in terms of composition and thickness (mm)

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# STANDPIPE PIEZOMETER INSTALLATION LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **CRR901**

Sheet 1 of 3

PIEZOMETER No **CRR901**

PROJECT Cross River Rail (CRR) Project - Additional Geotechnical Investigation

LOCATION Salisbury Station COORDINATES 502212.0 E; 6952243.9 N

PROJECT No FG6470 SURFACE RL 10.69m PLUNGE 90° DATE STARTED 02/07/2018 GRID DATUM MGA94

JOB No HEIGHT DATUM AHD BEARING ° DATE COMPLETED 04/07/2018 DRILLER Geodrill

| DEPTH (m) | R.L. (m) | LITHOLOGY | MATERIAL DESCRIPTION | Standpipe Piezometer Construction Details: Depth (m) /RL (AHD) | 50mm PVC Class No. 18 Stick Up = 0.00m | Backfill Details |
|---|---|---|---|---|---|---|
| 0 | 10.29 | | Silty Gravelly SAND (Fill)<br>Grey and brown, dry, loose, fine to medium grained. Fine to medium sub-angular to sub-rounded gravel. Some cobbles. | | | |
| | 9.99 | | Sandy CLAY (Fill)<br>Grey, brown, and red-brown, dry, firm. Medium plasticity. Fine to medium grained sand. Trace fine to medium gravel. | | | |
| 1 | 9.09 | | Sandy SILT (Alluvium)<br>Grey-brown, and brown, dry, stiff. Low plasticity. Trace medium, rounded gravel. | | | |
| 2 | | | Silty CLAY with Sand (Alluvium)<br>Grey-brown and red-brown, moist, stiff. High plasticity. | | | |
| 3 | | | from 3.0m: Becoming Sandy CLAY, yellow, red, orange layers throughout | | | |
| 4 | | | from 4.5m: Becoming very stiff. | | | |
| 5 | 5.49 | | Sandy CLAY (Alluvium)<br>Grey, moist, hard. Medium plasticity. Trace wood fragments. | | | Grout: Bentonite / Cement Mix |
| 6 | | | from 7.3m: becoming brown and grey, high plasticity. | | | |
| 7 | 2.69 | | Clayey SAND (Alluvium)<br>Grey with minor brown layers, moist, very dense. | | | |
| 8 | 1.19 | | Silty SAND (Alluvium) | | | |
| 9 | 0.69 | | | | | |

Continued on next sheet

REMARKS: Rjbw - Woogaroo Subgroup. Standpipe piezometer installed.

| LOGGED BY | REVIEWED BY |
|---|---|
| MH | S.Foley |

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# STANDPIPE PIEZOMETER INSTALLATION LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **CRR901**

Sheet 2 of 3

PIEZOMETER No **CRR901**

PROJECT Cross River Rail (CRR) Project - Additional Geotechnical Investigation

LOCATION Salisbury Station COORDINATES 502212.0 E; 6952243.9 N

PROJECT No FG6470 SURFACE RL 10.69m PLUNGE 90° DATE STARTED 02/07/2018 GRID DATUM MGA94

JOB No HEIGHT DATUM AHD BEARING ° DATE COMPLETED 04/07/2018 DRILLER Geodrill

| DEPTH (m) | R.L. (m) | LITHOLOGY | MATERIAL DESCRIPTION | Standpipe Piezometer Construction Details: Depth (m) /RL (AHD) | 50mm PVC Class No. 18 Stick Up = 0.00m | Backfill Details |
|---|---|---|---|---|---|---|
| 11 | | | Silty SAND (Alluvium)<br>Cont'd<br>Orange-brown and grey, wet, dense to very dense.<br>Fine to medium grained. Trace clay.<br>from 11.0m: fine to coarse grained | | | |
| 12 | | | from 12.50m: Trace fine to medium gravel | | | |
| 13 | -2.61 | | Silty CLAY (Alluvium)<br>Grey, moist, very stiff to hard, high plasticity. | | | |
| 14 | -3.31 | | Clayey SAND (Alluvium)<br>Grey mottled red-brown, moist, very dense.<br>Medium grained. | | | |
| 15 | -4.81 | | Silty CLAY (Residual)<br>Grey and brown-grey, moist, hard. High plasticity.<br>Trace fine grained sand. | | | |
| 16 | | | | | | |
| 17 | -7.01 | | SANDSTONE (Rjbw)<br>HW: Grey and pale grey, fine grained, very thinly to medium bedded, very low to low strength. Some fine to coarse grained layers up to 150mm thick.<br>Some interlaminated siltstone. | 18.00m / -7.31 AHD | | |
| 18 | | | | | | Bentonite Seal |
| 19 | | | 19.0m - 19.5m: Conglomerate layer 500mm | 19.00m / -8.31 AHD | | |
| | -9.31 | | | | | |

Continued on next sheet

REMARKS: Rjbw - Woogaroo Subgroup. Standpipe piezometer installed.

| LOGGED BY | REVIEWED BY |
|---|---|
| MH | S.Foley |

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# STANDPIPE PIEZOMETER INSTALLATION LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **CRR901**

Sheet 3 of 3

PIEZOMETER No **CRR901**

PROJECT Cross River Rail (CRR) Project - Additional Geotechnical Investigation

LOCATION Salisbury Station COORDINATES 502212.0 E; 6952243.9 N

PROJECT No FG6470 SURFACE RL 10.69m PLUNGE 90° DATE STARTED 02/07/2018 GRID DATUM MGA94

JOB No HEIGHT DATUM AHD BEARING ° DATE COMPLETED 04/07/2018 DRILLER Geodrill

| DEPTH (m) | R.L. (m) | LITHOLOGY | MATERIAL DESCRIPTION | Standpipe Piezometer Construction Details: Depth (m) /RL (AHD) — 50mm PVC Class No. 18 Stick Up = 0.00m — Backfill Details |
|---|---|---|---|---|
| 21 | | | SANDSTONE (Rjbw)<br>HW: Cont'd<br>from 21.0m: yellow and grey<br>from 21.60: grey | |
| | -11.21 | | | |
| 22 | | | SILSTONE (Rjbw)<br>MW: Grey and grey-brown, very thinly to medium bedded, mainly low to medium strength, interbedded fine to coarse grained sandstone layers up to 350mm.<br>from 22.35m: grey | |
| 23 | | | | |
| 24 | | | | Filter: Washed / Graded Sand |
| | | | | 24.75m / -14.06 AHD — Top of Slotted Pipe |
| 25 | | | | |
| | -15.31 | | | |
| 26 | | | SANDSTONE (Rjbw)<br>SW: Grey, fine to medium grained, thinly bedded, mainly low strength, some interlaminated siltstone.<br>from 26.75m: dark grey grey, interbedded Siltstone layers up to 400mm thick.<br>from 26.95m: some interbedded and interlaminated carbonaceous layers. | |
| 27 | | | | 27.75m / -17.06 AHD |
| | -17.26 | | | 27.95m / -17.26 AHD |
| 28 | | | Borehole completed at 27.95m | |
| 29 | | | | |

REMARKS: Rjbw - Woogaroo Subgroup. Standpipe piezometer installed.

| LOGGED BY | REVIEWED BY |
|---|---|
| MH | S.Foley |

TMR STANDPIPE PIEZOMETER INSTALLATION LOG - CREATED WITH HOLEBASE SI

**CORE PHOTO LOG**
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

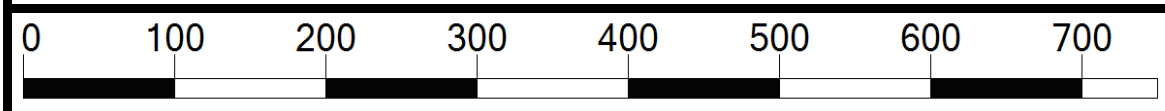
Queensland Government

| Project Name | **Cross River Rail CRR 2018 – Geotechnical Investigation** | | |
|---|---|---|---|
| Project No. | FG6470 | Date | 03.07.2018 |
| Borehole No. | CRR901 | Reference No. | H13105 |
| Location | Salisbury Station | Start Depth (m) | 17.70 |
| Submitted By | J. Armstrong | Finish Depth (m) | 27.95 |

**CORE PHOTO LOG**
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Queensland Government

| Project Name | **Cross River Rail CRR 2018 – Geotechnical Investigation** | | |
|---|---|---|---|
| Project No. | FG6470 | Date | 03.07.2018 |
| Borehole No. | CRR901 | Reference No. | H13105 |
| Location | Salisbury Station | Start Depth (m) | 17.70 |
| Submitted By | J. Armstrong | Finish Depth (m) | 27.95 |


**SCALE (mm)**