



COMPACTION ASSESSMENT

Job No 19816
 Report No 19816/R001
 Date Issued 18/12/2019

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

| | | | |
|----------|--|-------------|----------|
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | BS |
| Project | EYNESBURY - STAGE 11A3 | Date tested | 18/12/19 |
| Location | EYNESBURY | Checked by | JHF |

| | | | | | |
|----------------|----------------|------------------------|--------------|--------------|----------|
| Feature | CAPPING | Layer thickness | 160 / 150 mm | Time: | 11:59:58 |
|----------------|----------------|------------------------|--------------|--------------|----------|

AS 12892.1.1 & 5.8.1

| Test No | 1 | 2 | 3 | 4 | 5 | 6 |
|--|---------------|--------------|--------------|--------------|--------------|----------------|
| Location | Goulbourn Way | | | | | Seville Avenue |
| Chainage | 450 | 400 | 350 | 300 | 250 | 130 |
| Offset | 1.7 | 1.9 | 2.1 | 2.0 | 1.8 | 1.9 |
| | east of kerb | west of kerb | east of kerb | west of kerb | east of kerb | north of kerb |
| Approximate depth from F.S.L. m | | | | | | |
| Measurement depth mm | 125 | 125 | 125 | 125 | 125 | 125 |
| Field wet density t/m³ | 2.13 | 2.21 | 2.20 | 2.10 | 2.21 | 2.20 |
| Field dry density t/m³ | 1.94 | 1.95 | 1.95 | 1.89 | 1.97 | 1.96 |
| Field moisture content % | 10.0 | 13.5 | 13.0 | 11.0 | 12.0 | 12.5 |

Laboratory Compaction AS 1289.5.1.1 & 5.4.2 Assigned Values (See Report No 40SMWVCG)

| | |
|--|----------------------------------|
| Date of assignment | 19/11/2019 |
| Material source and location | 40mm Capping - MVQ, Wyndham Vale |
| Compactive effort | STANDARD |
| Maximum Dry Density t/m³ | 1.96 |
| Optimum Moisture Content % | 14.0 |

Test procedure AS 1289.5.4.1

| | | | | | | |
|---|------|------|------|------|------|------|
| Oversize rock retained on sieve mm | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 |
| Percent of oversize material wet | - | - | - | - | - | - |
| Percent of oversize material dry | - | - | - | - | - | - |
| Adjusted Maximum Dry Density t/m³ | - | - | - | - | - | - |
| Adjusted Optimum Moisture Content % | - | - | - | - | - | - |

| | | | | | | |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| Moisture Variation From Optimum Moisture Content | 4.0% dry | 1.0% dry | 1.0% dry | 3.0% dry | 2.0% dry | 2.0% dry |
|---|-------------|-------------|-------------|-------------|-------------|-------------|

| | | | | | | |
|---|------|------|------|------|------|------|
| Moisture Ratio (R_m) | 71.5 | 94.5 | 92.5 | 77.5 | 85.0 | 87.5 |
|---|------|------|------|------|------|------|

| | | | | | | |
|--|-------------|-------------|-------------|-------------|--------------|--------------|
| Density Ratio (R_D) | 98.5 | 99.0 | 99.5 | 96.5 | 100.5 | 100.0 |
|--|-------------|-------------|-------------|-------------|--------------|--------------|

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The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 19816
 Report No 19816/R002
 Date Issued 16/03/2020

| | | | |
|----------|--|-------------|----------|
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | WS |
| Project | EYNESBURY - STAGE 11A3 | Date tested | 16/03/20 |
| Location | EYNESBURY | Checked by | JHF |

| | | | | | |
|----------------|----------------|-----------------|--------------|-------|----------|
| Feature | CLASS 3 | Layer thickness | 150 / 140 mm | Time: | 12:00:00 |
|----------------|----------------|-----------------|--------------|-------|----------|

AS 12892.1.1 & 5.8.1

| Test No | 1 | 2 | 3 | 4 | 5 | 6 |
|-------------------------------|------------------|-----------------|-----------------|------------------|------------------|------------------|
| Location | Goulburn Avenue | | | | Seville Avenue | |
| Chainage | 270 | 330 | 390 | 440 | 115 | 160 |
| Offset | 1.2 | 1.5 | 1.3 | 1.7 | 1.1 | 1.6 |
| | east of kerb | west of kerb | east of kerb | north of kerb | north of kerb | south of kerb |
| Approximate depth from F.S.L. | m | | | | | |
| Measurement depth | mm | 125 | 125 | 125 | 125 | 125 |
| Field wet density | t/m ³ | 2.38 | 2.40 | 2.40 | 2.40 | 2.42 |
| Field dry density | t/m ³ | 2.26 | 2.30 | 2.30 | 2.30 | 2.26 |
| Field moisture content | % | 5.0 | 4.5 | 4.5 | 4.5 | 5.5 |

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203MWVIJ)

| | |
|------------------------------|----------------------------------|
| Date of assignment | 05/03/2020 |
| Material source and location | 20mm Class 3 - MVQ, Wyndham Vale |
| Compactive effort | MODIFIED |
| Maximum Dry Density | t/m ³ 2.31 |
| Optimum Moisture Content | % |

Test procedure AS 1289.5.4.1

| | | | | | | | |
|-----------------------------------|------------------|------|------|------|------|------|------|
| Oversize rock retained on sieve | mm | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| Percent of oversize material | wet | - | - | - | - | - | - |
| Percent of oversize material | dry | - | - | - | - | - | - |
| Adjusted Maximum Dry Density | t/m ³ | - | - | - | - | - | - |
| Adjusted Optimum Moisture Content | % | - | - | - | - | - | - |

| | | | | | | |
|---|------|------|------|------|------|------|
| Moisture Variation From Optimum Moisture Content | 2.5% | 3.0% | 3.5% | 3.0% | 2.5% | 2.5% |
| | dry | dry | dry | dry | dry | dry |

| | | | | | | | |
|-----------------------------------|---|------|------|------|------|------|------|
| Moisture Ratio (R _m) | % | 68.0 | 58.5 | 57.0 | 58.0 | 66.5 | 70.5 |
|-----------------------------------|---|------|------|------|------|------|------|

| | | | | | | | |
|----------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|
| Density Ratio (R _D) | % | 98.0 | 99.5 | 99.5 | 99.5 | 99.5 | 98.0 |
|----------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|

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Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 19816
Report No 19816/R003
Date Issued 24/06/2020

| | | | |
|----------|--|-------------|----------|
| Client | WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) | Tested by | WS |
| Project | EYNESBURY - STAGE 11A3 | Date tested | 24/06/20 |
| Location | EYNESBURY | Checked by | JHF |

| | | | | | |
|----------------|----------------|------------------------|--------------|--------------|----------|
| Feature | CLASS 2 | Layer thickness | 150 / 130 mm | Time: | 09:00:00 |
|----------------|----------------|------------------------|--------------|--------------|----------|

AS 12892.1.1 & 5.8.1

| Test No | 13 | 14 | 15 | 16 | 17 | 18 |
|-------------------------------|------------------|--------------|--------------|---------------|----------------|---------------|
| Location | Goulburn Way | | | | Seville Avenue | |
| Chainage | 270 | 330 | 390 | 440 | 115 | 160 |
| Offset | 1.6 | 1.2 | 1.3 | 1.5 | 1.4 | 1.7 |
| | east of kerb | west of kerb | east of kerb | north of kerb | north of kerb | south of kerb |
| Approximate depth from F.S.L. | m | | | | | |
| Measurement depth | mm | 125 | 125 | 125 | 125 | 125 |
| Field wet density | t/m ³ | 2.47 | 2.46 | 2.45 | 2.46 | 2.46 |
| Field dry density | t/m ³ | 2.32 | 2.32 | 2.31 | 2.31 | 2.33 |
| Field moisture content | % | 6.0 | 6.0 | 5.5 | 6.5 | 5.5 |

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 202MWWHS)

| | |
|------------------------------|----------------------------------|
| Date of assignment | 28/05/2020 |
| Material source and location | 20mm Class 2 - MVQ, Wyndham Vale |
| Compactive effort | MODIFIED |
| Maximum Dry Density | t/m ³ 2.31 |
| Optimum Moisture Content | % 7.5 |

Test procedure AS 1289.5.4.1

| | | | | | | | |
|-----------------------------------|------------------|------|------|------|------|------|------|
| Oversize rock retained on sieve | mm | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| Percent of oversize material | wet | - | - | - | - | - | - |
| Percent of oversize material | dry | - | - | - | - | - | - |
| Adjusted Maximum Dry Density | t/m ³ | - | - | - | - | - | - |
| Adjusted Optimum Moisture Content | % | - | - | - | - | - | - |

| | | | | | | |
|---|----------|----------|----------|----------|----------|----------|
| Moisture Variation From Optimum Moisture Content | 1.5% dry | 1.5% dry | 2.0% dry | 1.0% dry | 1.5% dry | 2.0% dry |
|---|----------|----------|----------|----------|----------|----------|

| | | | | | | | |
|---|---|------|------|------|------|------|------|
| Moisture Ratio (R_m) | % | 83.5 | 80.5 | 76.0 | 86.0 | 79.0 | 76.5 |
|---|---|------|------|------|------|------|------|

| | | | | | | | |
|--|---|-------|-------|-------|-------|-------|-------|
| Density Ratio (R_D) | % | 100.5 | 100.5 | 100.0 | 100.0 | 100.5 | 101.0 |
|--|---|-------|-------|-------|-------|-------|-------|

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