

# Environment Protection Licence Monitoring Data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| Project name:                    | WestConnex – New M5   |   |   |
| Licensee                         | CPB Contractors Pty Limited   |   |   |
| Monitoring period                | June 2020   |   |   |
| Website:                         | <a href="https://www.westconnex.com.au/NewM5Environment">https://www.westconnex.com.au/NewM5Environment</a> |   |   |
| Environment Protection licences: | 20772   | 4627  | 21351   |
| Premise addresses                | WestConnex New M5,<br>between Beverly Hills and St Peters,<br>Beverly Hills NSW 2209                        | New M5 St Peters Interchange,<br>10-16 Albert Street,<br>St Peters NSW 2044 | Operational Water Treatment Plant<br>M8 – Motorway Operations Complex 3<br>Arncliffe NSW 2205 |

## Monitoring Type: Water Discharge Monitoring (4627 and 20772)

| Discharge/Monitoring Point  | Date sampled | Total suspended solids |          | pH            |        | Oil & Grease  |        | Monitoring frequency | Comment   |
|-----------------------------|--------------|------------------------|----------|---------------|--------|---------------|--------|----------------------|-----------|
|                             |              | Licence limit          | Result * | Licence limit | Result | Licence limit | Result |                      |           |
| Sediment Basin SPI-4        | 1/06/2020    | 50                     | 30       | 6.5-8.5       | 7.3    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 2/06/2020    | 50                     | 6.7      | 6.5-8.5       | 7.68   | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 3/06/2020    | 50                     | 5.9      | 6.5-8.5       | 7.66   | None visible  | None   | Each discharge       | Compliant |
| Sediment Basin SPI-4        | 4/06/2020    | 50                     | 20       | 6.5-8.5       | 7.7    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 4/06/2020    | 50                     | 5.98     | 6.5-8.5       | 7.05   | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 5/06/2020    | 50                     | 6.1      | 6.5-8.5       | 7      | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 6/06/2020    | 50                     | 6.1      | 6.5-8.5       | 8.4    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 7/06/2020    | 50                     | 4.2      | 6.5-8.5       | 7.2    | None visible  | None   | Each discharge       | Compliant |
| Sediment Basin SPI-4        | 8/06/2020    | 50                     | 30       | 6.5-8.5       | 6.9    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 8/06/2020    | 50                     | 2.8      | 6.5-8.5       | 7.6    | None visible  | None   | Each discharge       | Compliant |
| Sediment Basin SPI-4        | 9/06/2020    | 50                     | 30       | 6.5-8.5       | 7.3    | None visible  | None   | Each discharge       | Compliant |

# Environment Protection Licence Monitoring Data

| Discharge/Monitoring Point  | Date sampled | Total suspended solids |          | pH            |        | Oil & Grease  |        | Monitoring frequency | Comment   |
|-----------------------------|--------------|------------------------|----------|---------------|--------|---------------|--------|----------------------|-----------|
|                             |              | Licence limit          | Result * | Licence limit | Result | Licence limit | Result |                      |           |
| Water Treatment Plant ARN-2 | 9/06/2020    | 50                     | 12.5     | 6.5-8.5       | 7.7    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 10/06/2020   | 50                     | 2.5      | 6.5-8.5       | 7.6    | None visible  | None   | Each discharge       | Compliant |
| Sediment Basin SPI-4        | 11/06/2020   | 50                     | 30       | 6.5-8.5       | 7.6    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 11/06/2020   | 50                     | 2        | 6.5-8.5       | 7.9    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 12/06/2020   | 50                     | 10       | 6.5-8.5       | 7.4    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 13/06/2020   | 50                     | 20       | 6.5-8.5       | 7.3    | None visible  | None   | Each discharge       | Compliant |
| Sediment Basin SPI-4        | 14/06/2020   | 50                     | 40       | 6.5-8.5       | 7      | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 14/06/2020   | 50                     | 20       | 6.5-8.5       | 7.4    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 15/06/2020   | 50                     | 10       | 6.5-8.5       | 7.1    | None visible  | None   | Each discharge       | Compliant |
| Sediment Basin SPI-4        | 16/06/2020   | 50                     | 20       | 6.5-8.5       | 7.6    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 16/06/2020   | 50                     | 10       | 6.5-8.5       | 7.2    | None visible  | None   | Each discharge       | Compliant |
| Sediment Basin SPI-4        | 17/06/2020   | 50                     | 30       | 6.5-8.5       | 7.6    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 17/06/2020   | 50                     | 10       | 6.5-8.5       | 7.1    | None visible  | None   | Each discharge       | Compliant |
| Sediment Basin SPI-4        | 18/06/2020   | 50                     | 40       | 6.5-8.5       | 7.3    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 18/06/2020   | 50                     | 10       | 6.5-8.5       | 7.2    | None visible  | None   | Each discharge       | Compliant |
| Sediment Basin SPI-4        | 19/06/2020   | 50                     | 30       | 6.5-8.5       | 7.8    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 19/06/2020   | 50                     | 29       | 6.5-8.5       | 6.57   | None visible  | None   | Each discharge       | Compliant |

# Environment Protection Licence Monitoring Data

| Discharge/Monitoring Point  | Date sampled | Total suspended solids |          | pH            |        | Oil & Grease  |        | Monitoring frequency | Comment   |
|-----------------------------|--------------|------------------------|----------|---------------|--------|---------------|--------|----------------------|-----------|
|                             |              | Licence limit          | Result * | Licence limit | Result | Licence limit | Result |                      |           |
| Water Treatment Plant ARN-2 | 20/06/2020   | 50                     | 29       | 6.5-8.5       | 7      | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 22/06/2020   | 50                     | 30       | 6.5-8.5       | 6.55   | None visible  | None   | Each discharge       | Compliant |
| Sediment Basin SPI-4        | 23/06/2020   | 50                     | 30       | 6.5-8.5       | 7.1    | None visible  | None   | Each discharge       | Compliant |
| Sediment Basin SPI-4        | 24/06/2020   | 50                     | 20       | 6.5-8.5       | 6.9    | None visible  | None   | Each discharge       | Compliant |
| Sediment Basin SPI-4        | 25/06/2020   | 50                     | 20       | 6.5-8.5       | 7      | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 26/06/2020   | 50                     | 32       | 6.5-8.5       | 6.9    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 27/06/2020   | 50                     | 32       | 6.5-8.5       | 6.5    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 28/06/2020   | 50                     | 30       | 6.5-8.5       | 6.5    | None visible  | None   | Each discharge       | Compliant |
| Water Treatment Plant ARN-2 | 29/06/2020   | 50                     | 30       | 6.5-8.5       | 7.44   | None visible  | None   | Each discharge       | Compliant |

\* A correlation between TSS and Turbidity has been established. Including a safety factor, the turbidity limit is 50NTU.

## Environment Protection Licence Monitoring Data

### Monitoring Type: Water Discharge Monitoring (21351)

Environment protection licence 21351 was issued by the EPA on 30/04/2020 for the operational water treatment plant at Motorway Operations Complex 3 (Arncliffe). A Sampling and Analyte plan was submitted to the EPA on 08/05/2020 for monitoring in accordance with Condition U1. Advice from the EPA is pending and as such, sampling under this condition (U1) did not commence in this period. The operational water treatment plant was not in-use for approximately 10 days in late June. No water was processed during this time. The sample for June was collected when the plant recommenced operation on 1 July 2020.

| Pollutant        | Units of Measure              | 50 Percentile concentration limit | 90 Percentile concentration limit | 3DGM Concentration limit | 100 Percentile concentration limit | Measured | Compliant  |
|------------------|-------------------------------|-----------------------------------|-----------------------------------|--------------------------|------------------------------------|----------|------------|
| Aluminium        | micrograms per litre          | 500                               | 600                               |                          |                                    | 180      | Yes        |
| Cobalt           | micrograms per litre          | 2.8                               | 8.0                               |                          |                                    | 1.4      | Yes        |
| Copper           | micrograms per litre          | 2.9                               | 10.3                              |                          |                                    | 1.3      | Yes        |
| Manganese        | micrograms per litre          | 2000                              | 10600                             |                          |                                    | 1110     | Yes        |
| pH               | pH units                      |                                   |                                   |                          | 6.5-8.5                            | 7.25     | Yes        |
| TRH C10-C16      | micrograms per litre          | <100                              | <100                              |                          |                                    | 640      | Above 90%. |
| TRH C16-C34 (F3) | micrograms per litre          | <100                              | <100                              |                          |                                    | 110      | Yes        |
| TRH C34-C40 (F4) | micrograms per litre          | <100                              | <100                              |                          |                                    | <100     | Yes        |
| Turbidity        | nephelometric turbidity units |                                   |                                   |                          | 25                                 | 2.0      | Yes        |
| Zinc             | micrograms per litre          | 48                                | 150                               |                          |                                    | 4.0      | Yes        |

# Environment Protection Licence Monitoring Data

## Monitoring Type: Dust Monitoring (EPL 4627)

| Monitoring Point /<br>EPA Identification point (EPL 4627) | Start Date | Finish Date | Dust Deposition g/m2/day | Comment                     |
|---|------------|-------------|--------------------------|-----------------------------|
| DG01  | 26/05/2020 | 30/06/2020  | 7.4                      |                             |
| DG02  | 26/05/2020 | 30/06/2020  | 3.1                      |                             |
| DG03  | 26/05/2020 | -           | -                        | No area available for gauge |
| DG04  | 26/05/2020 | 30/06/2020  | 2.7                      |                             |



- Discharge Point
- Railway Station
- ALF (subject to EPL No. 4627)
- Deed Boundary
- Premised Area

|     |   |            |          |
|-----|---|------------|----------|
| Z   | ALF Boundary modification, Discharge/Dust Gauge remove/ removal | 30/01/2020 |          |
| Y   | Premised Area boundary modification                             | 30/09/2019 |          |
| X   | Premised Area boundary modification                             | 30/08/2019 |          |
| W   | ALF Boundary and Premise Area modification                      | 18/06/2019 |          |
| U   | Premised Area boundary modification                             | 17/01/2019 |          |
| T   | Added Discharge Point   | 08/01/2019 |          |
| S   | Premised Area boundary modification                             | 13/11/2018 |          |
| Rev | Description   | Date       | Approved |

Scales

0 1,000 m

1:27500

Imagery Copyright NearMap 2019

Client

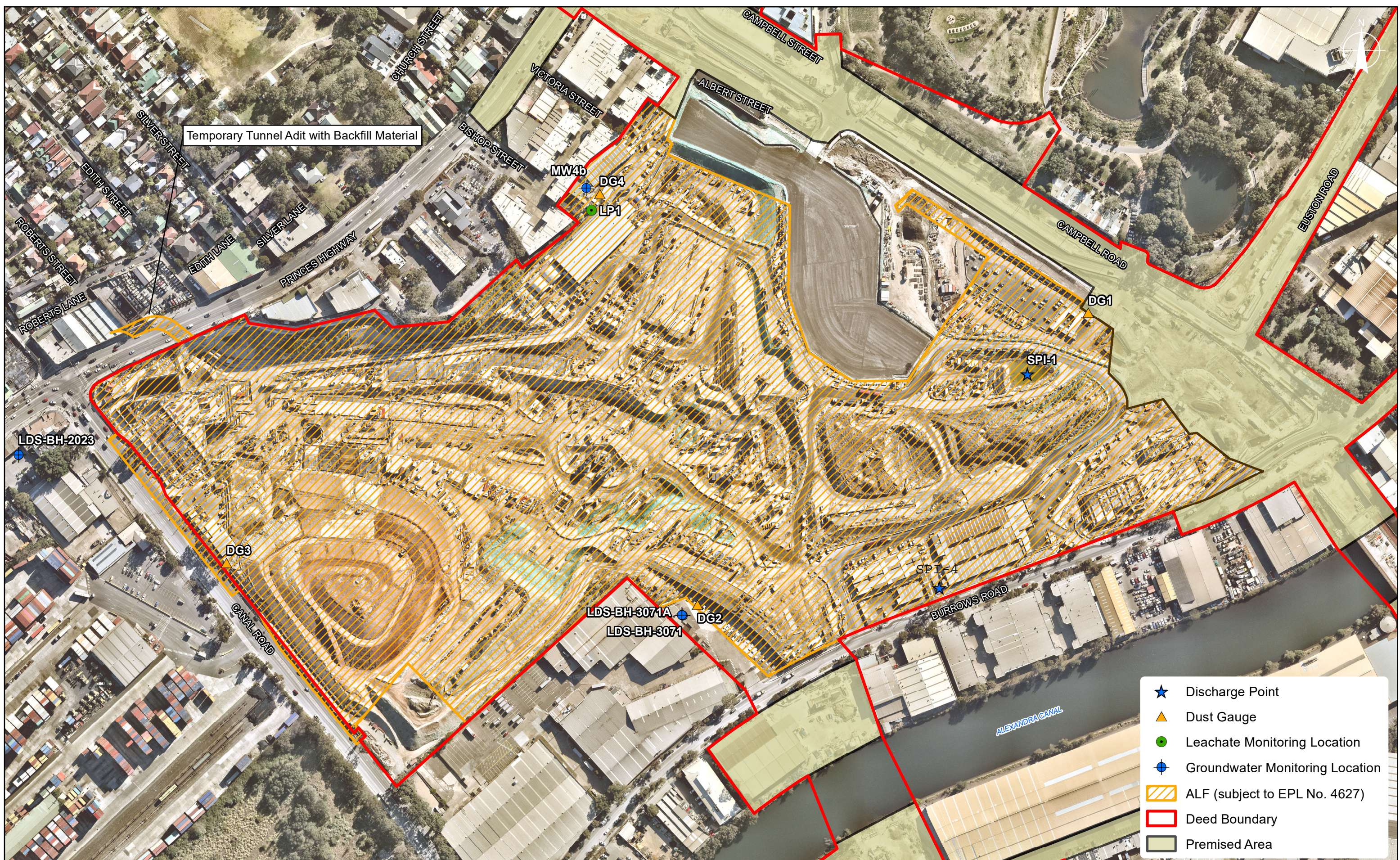
|   |             |              |    |
|---|-------------|--------------|----|
| <b>Status</b>                               |             |              |    |
| For Information Only - NOT FOR CONSTRUCTION |             |              |    |
| Original Size                               | A3          | Drawn        | PB |
| Coordinate System                           | MGA ZONE 56 | Requested by |    |
| Height Datum                                | AHD         | Date Printed |    |
| Filename:                                   |             |              |    |

**WestConnex New M5**

**WESTCONNEX New M5**

**Premise Map Overview**

M5N-ES-MAP-PWD-0001-27



- ★ Discharge Point
- ▲ Dust Gauge
- Leachate Monitoring Location
- Groundwater Monitoring Location
- ALF (subject to EPL No. 4627)
- Deed Boundary
- Premised Area

| Rev | Description                                | Date       | Approved |
|-----|--|------------|----------|
| S   | ALF Boundary and Premise Area modification | 25/03/2020 |          |
| R   | ALF Boundary modification, Dust Gauge move | 31/01/2020 |          |
| Q   | Premised Area boundary modification        | 17/01/2019 |          |
| P   | Added Discharge Point                      | 08/01/2018 |          |
| O   | Modified premised area boundary            | 04/10/2018 |          |
| N   | ALF Boundary and Premise Area modification | 04/09/2018 |          |
| M   | ALF Boundary and Premise Area modification | 03/07/2018 |          |

Scale

0 100 m

Imagery © Nearmap 2019

Client

Status  
For Information Only - NOT FOR CONSTRUCTION

|                   |                      |              |            |
|-------------------|----------------------|--------------|------------|
| Original Size     | A3                   | Drawn        | PB         |
| Coordinate System | MGA ZONE 56          | Requested by | CG         |
| Height Datum      | AHD                  | Date Printed | 25/03/2020 |
| Filename:         | Premise_SPI_RevS.mxd |              |            |

WestConnex New M5

**WESTCONNEX New M5**

**Premise Map**  
St Peters Interchange

DOCUMENT NUMBER  
M5N-ES-MAP-PWD-0001-27