



# Cabramatta East Precinct Development Detailed Site Investigation

Moon Investments Pty Ltd

Report

152 560 | 65196

22 June 2023





**We acknowledge the Traditional Custodians of Country throughout Australia and their connections to land, sea and community.**

We pay respect to Elders past and present and in the spirit of reconciliation, we commit to working together for our shared future.

## Table of Contents

|                                                                 |           |
|-----------------------------------------------------------------|-----------|
| <b>Abbreviations .....</b>                                      | <b>5</b>  |
| <b>Executive Summary.....</b>                                   | <b>6</b>  |
| <b>1. Introduction .....</b>                                    | <b>7</b>  |
| 1.1 Objective .....                                             | 7         |
| 1.2 Scope of Work .....                                         | 7         |
| <b>2. Site Condition and Surrounding Environment .....</b>      | <b>8</b>  |
| 2.1 Site Identification .....                                   | 8         |
| 2.2 Site Description .....                                      | 8         |
| 2.3 Surrounding Landuse .....                                   | 9         |
| 2.4 Natural Site Setting .....                                  | 9         |
| 2.5 Summary of Site Historical Records Review.....              | 10        |
| <b>3. Previous Site Investigation.....</b>                      | <b>12</b> |
| 3.1 Preliminary Site Investigation (JK Environments 2023) ..... | 12        |
| <b>4. Preliminary Conceptual Site Model (CSM) .....</b>         | <b>13</b> |
| 4.1 Potential Contamination Sources.....                        | 13        |
| 4.2 Potentially Contaminated Media .....                        | 13        |
| 4.3 Potential for Migration.....                                | 13        |
| 4.4 Receptors and Exposure Pathways .....                       | 14        |
| 4.5 Preferential Pathways .....                                 | 14        |
| <b>5. Sampling, Analysis and Quality Plan .....</b>             | <b>15</b> |
| 5.1 Data Quality Objectives.....                                | 15        |
| 5.1.1 State the Problem .....                                   | 15        |
| 5.1.2 Identify the Decision .....                               | 15        |
| 5.1.3 Identify Inputs to the Decision .....                     | 15        |
| 5.1.4 Define the Study Boundaries.....                          | 15        |
| 5.1.5 Develop a Decision Rule .....                             | 15        |
| 5.1.6 Specify the Limits on Decision Errors .....               | 16        |
| 5.2 Optimise the Design for Obtaining Data .....                | 19        |
| 5.3 Assessment Methodology .....                                | 20        |
| 5.3.1 Soil Assessment Methodology .....                         | 20        |
| 5.3.2 Groundwater Assessment Methodology .....                  | 20        |
| 5.3.3 Soil Vapour Assessment Methodology.....                   | 21        |
| 5.3.4 Decontamination.....                                      | 21        |
| 5.3.5 Duplicate and Triplicate Sample Preparation .....         | 21        |

|                                                                                                                       |           |
|-----------------------------------------------------------------------------------------------------------------------|-----------|
| 5.3.6 Laboratory Analysis .....                                                                                       | 22        |
| <b>6. Assessment Criteria .....</b>                                                                                   | <b>23</b> |
| 6.1 Regulatory Guidelines .....                                                                                       | 23        |
| 6.1.1 Soil Assessment Criteria .....                                                                                  | 23        |
| 6.1.2 Groundwater Assessment Criteria .....                                                                           | 24        |
| 6.1.3 Soil Vapour Assessment Criteria .....                                                                           | 24        |
| <b>7. Quality Assurance / Quality Control .....</b>                                                                   | <b>25</b> |
| 7.1 QA/QC Assessment .....                                                                                            | 25        |
| <b>8. Investigation Results .....</b>                                                                                 | <b>26</b> |
| 8.1 Soil Field Observations .....                                                                                     | 26        |
| 8.2 Soil Laboratory Results .....                                                                                     | 26        |
| 8.2.1 Heavy Metals .....                                                                                              | 26        |
| 8.2.2 TRH and BTEX .....                                                                                              | 26        |
| 8.2.3 PAH .....                                                                                                       | 26        |
| 8.2.4 VOC .....                                                                                                       | 26        |
| 8.2.5 OCP .....                                                                                                       | 26        |
| 8.2.6 PCBs .....                                                                                                      | 26        |
| 8.2.7 Asbestos .....                                                                                                  | 27        |
| 8.2.8 PFAS .....                                                                                                      | 27        |
| 8.3 Groundwater Results .....                                                                                         | 27        |
| 8.3.1 Groundwater Field Parameters and Observations .....                                                             | 27        |
| 8.3.2 Heavy Metals .....                                                                                              | 27        |
| 8.3.3 TRH .....                                                                                                       | 27        |
| 8.3.4 PAH .....                                                                                                       | 27        |
| 8.3.5 VOCs .....                                                                                                      | 27        |
| 8.3.6 PFAS .....                                                                                                      | 27        |
| 8.4 Soil Vapour Results .....                                                                                         | 28        |
| 8.4.1 Soil Vapour Field Parameters and Observations .....                                                             | 28        |
| 8.4.2 Analytical Results .....                                                                                        | 28        |
| <b>9. Site Characterisation .....</b>                                                                                 | <b>29</b> |
| 9.1 Are there any unacceptable risks to likely future on-site receptors? .....                                        | 29        |
| 9.2 Are there any issues relating to background soil concentrations that exceed appropriate site soil criteria? ..... | 29        |
| 9.3 Are there any aesthetic issues at the site? .....                                                                 | 29        |
| 9.4 Is there any evidence of, or potential for, migration of contaminants from the site? .....                        | 29        |
| 9.5 Is a site management strategy required? .....                                                                     | 29        |
| <b>10. Conclusions and Recommendations .....</b>                                                                      | <b>30</b> |
| 10.1 Conclusions .....                                                                                                | 30        |



|                              |           |
|------------------------------|-----------|
| 10.2 Recommendations .....   | 30        |
| <b>11. Limitations .....</b> | <b>31</b> |

### List of Tables

|                                                                                       |    |
|---------------------------------------------------------------------------------------|----|
| Table 2.1 Site Identification.....                                                    | 8  |
| Table 4.1 Potential Contamination Sources and Contaminants of Potential Concern ..... | 13 |
| Table 5.1 Summary of Decision Rules .....                                             | 16 |
| Table 5.2 Data Quality Indicators .....                                               | 18 |
| Table 5.3 Summary of Investigation Approach .....                                     | 19 |

### List of Figures

Figure 1: Site Location  
Figure 2: Site layout  
Figure 3: Sample Locations  
Figure 4: Groundwater Contours

### Appendices

#### Figures

#### Tables

|                   |                                          |
|-------------------|------------------------------------------|
| <b>Appendix A</b> | <b>Photolog</b>                          |
| <b>Appendix B</b> | <b>Bore logs</b>                         |
| <b>Appendix C</b> | <b>Calibration Documentation</b>         |
| <b>Appendix D</b> | <b>Design Plans</b>                      |
| <b>Appendix E</b> | <b>Quality Assurance/Quality Control</b> |
| <b>Appendix F</b> | <b>Laboratory Documentation</b>          |

## Abbreviations

| Term   | Definition                                                                            |
|--------|---------------------------------------------------------------------------------------|
| ACM    | Asbestos Containing Material                                                          |
| AECs   | Areas of Environmental Concern                                                        |
| AHD    | Australian Height Datum                                                               |
| ASS    | Acid Sulfate Soils                                                                    |
| B(a)P  | Benzo(a)pyrene                                                                        |
| BTEX   | Benzene, Toluene, Ethylbenzene and Xylene                                             |
| COC    | Chain of Custody                                                                      |
| COPCs  | Contaminants of Potential Concern                                                     |
| CSM    | Conceptual Site Model                                                                 |
| DP     | Deposited Plan                                                                        |
| DQIs   | Data Quality Indicators                                                               |
| DQOs   | Data Quality Objectives                                                               |
| DSI    | Detailed Site Investigation                                                           |
| EIL    | Ecological Investigation Levels                                                       |
| EPA    | NSW Environment Protection Authority                                                  |
| ESL    | Ecological Screening Levels                                                           |
| GPS    | Global Positioning System                                                             |
| HIL    | Health Investigation Levels                                                           |
| HSL    | Health Screening Levels                                                               |
| JBS&G  | JBS&G Australia Pty Ltd                                                               |
| LEP    | Local Environmental Plan                                                              |
| LOR    | Limit of Reporting                                                                    |
| NEPC   | National Environment Protection Council                                               |
| NEPM   | National Environment Protection Measure                                               |
| OCPs   | Organochlorine Pesticides                                                             |
| PAH    | Polycyclic Aromatic Hydrocarbons                                                      |
| PARCCS | Precision, Accuracy, Representativeness, Comparability, Completeness, and Sensitivity |
| PCBs   | Polychlorinated Biphenyls                                                             |
| PFAS   | Per-and Polyfluoroalkyl substances                                                    |
| PID    | Photo-ionisation Detector                                                             |
| PSI    | Preliminary Site Investigation                                                        |
| QA/QC  | Quality Assurance/Quality Control                                                     |
| RPD    | Relative Percent Difference                                                           |
| TRH    | Total Recoverable Hydrocarbons                                                        |
| VOCs   | Volatile Organic Compounds                                                            |

## Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Moon Investments Pty Ltd (the client) to conduct a Detailed Site Investigation (DSI) for land located at 76-86 Broomfield Street and 139 & 147-151 Cabramatta Road East, Cabramatta NSW (the site), legally identified as Lot 7 Section E in Deposited Plan (DP) 4420, Lots 1 & 2 DP 205759, Lot 10 DP 255023, Lots 5 to 8 DP 25618 and Lot 2 DP 580587. The combined total area of the site is approximately 0.8 hectares. The site location and layout are presented on **Figure 1** and **Figure 2**, respectively.

It is understood that the client proposes to demolish existing site structures to accommodate mixed use development comprising of three towers with three levels of basement car parking. The development will be undertaken in stages.

A Preliminary Site Investigation comprising of a site inspection and desktop assessment, was previously completed for the site. The PSI report identified potential contamination sources and areas of environmental concern (AECs) for the site. The report recommended an intrusive detailed site investigation to confirm the suitability of the site for the proposed development.

The site is composed an irregular shaped lot of land, containing commercial properties and private-public carpark spaces, accessed via Broomfield Street (entry) and Cabramatta Road East (exit). The sites surface comprised a combination of building footprint, concrete and asphalt, with some stormwater drains.

Based on the results of the DSI undertaken at the site and the limitations in **Section 11**, it is concluded that:

- The detection of cis-1,2-dichloroethene above the adopted site criteria in soil vapour indicates there is potential for some migration of impact from a neighbouring former dry cleaning operation however, the single isolated occurrence does not pose a risk to on-site receptors. Under the proposed development plans including the excavation of a multi-level basement across the footprint of the site, there are no unacceptable risks posed to future on-site receptors;
- There are no issues relating to background soil concentrations that require further consideration;
- There are no aesthetic issues; and
- The results do not indicate any potential migration of contaminants off the site.

On the basis of the above, the site can be made suitable for the proposed mixed-use development including a multi-level basement across the footprint of the site as outlined in the design plans in **Appendix D**, with the development and implementation of a RAP to document the removal and appropriate disposal of fill material from across the site.

A RAP should be developed for the site in accordance with relevant guidelines.

An Unexpected Finds Protocol should be developed to manage the potential presence of asbestos which may not have been detected as part of the investigation and may be encountered during development works.

# 1. Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by Moon Investments Pty Ltd (the client) to conduct a Detailed Site Investigation (DSI) for land located at 76-86 Broomfield Street and 139 & 147-151 Cabramatta Road East, Cabramatta NSW (the site), legally identified as Lot 7 Section E in Deposited Plan (DP) 4420, Lots 1 & 2 DP 205759, Lot 10 DP 255023, Lots 5 to 8 DP 25618 and Lot 2 DP 580587. The combined total area of the site is approximately 0.8 hectares. The site location and layout are presented on **Figure 1** and **Figure 2**, respectively.

It is understood that the client proposes to demolish existing site structures to accommodate mixed use development comprising of three towers with three levels of basement car parking. The development will be undertaken in stages.

A Preliminary Site Investigation (PSI, JK Environments 2023<sup>1</sup>), comprising of a site inspection and desktop assessment, was previously completed for the site. The PSI report identified potential contamination sources and areas of environmental concern (AECs) for the site. The report recommended an intrusive detailed site investigation to confirm the suitability of the site for the proposed development.

The investigation documented herein has been developed in general accordance with guidelines made or approved by the NSW Environment Protection Authority (EPA) including *National Environment Protection (Assessment of Site Contamination) Measure 1999* as amended 2013 (NEPM) (National Environment Protection Council (NEPC) 2013<sup>2</sup>), State Environmental Planning Policies (SEPP Resilience and Hazards 2021) and relevant Australian Standards.

## 1.1 Objective

The objective of the DSI was to undertake intrusive investigation to determine the contamination status of the site with regard to the proposed mixed-use high-density development.

It is understood that the DSI report is to be submitted to the consent authority in support of the development application.

## 1.2 Scope of Work

To achieve the objective of the investigation, the following scope of works was conducted:

- Review of the previous investigation report including site environmental setting and historical activities to identify AECs and associated contaminants of potential concern (COPCs) for the site;
- Completion of a detailed site inspection and targeted sampling program including installation of 10 soil bore sample locations, 3 groundwater sample locations and 8 soil vapour sample locations;;
- Laboratory analysis of representative soil, groundwater and soil vapour samples for a range of COPCs; and
- Preparation of a DSI report in general accordance with relevant EPA guidelines.

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<sup>1</sup> Preliminary Site Investigation (PSI), Proposed Cabramatta East Precinct Development, 76-86 Broomfield Street, 139 and 147-151 Cabramatta Road East, Cabramatta NSW. JK Environments Pty Ltd, dated 5 May 2023, ref: E35971PTTrpt (JK Environments 2023)

<sup>2</sup> National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013). National Environment Protection Council, 2013 (NEPC 2013).

## 2. Site Condition and Surrounding Environment

### 2.1 Site Identification

The site location is shown on **Figure 1**. The site layout and associated cadastral boundaries are shown on **Figure 2**. The site details are summarised in **Table 2.1** and described in detail in the following sections.

**Table 2.1 Site Identification**

|                                                                   |                                                                                                              |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Lot / DP Number                                                   | Lot 7 Section E in DP 4420, Lots 1 & 2 DP 205759, Lot 10 DP 255023, Lots 5 to 8 DP 25618 and Lot 2 DP 580587 |
| Street Address                                                    | 76-86 Broomfield Street and 139 & 147-151 Cabramatta Road East, Cabramatta NSW                               |
| Local Government Authority                                        | Fairfield City Council                                                                                       |
| Site Area                                                         | Approximately 0.8 hectares                                                                                   |
| Current Zoning                                                    | MU1: Mixed Use under <i>Fairfield Local Environmental Plan 2013</i>                                          |
| Geographic Coordinates (approximate centre of site) (GDA94-MGA56) | E: 309490<br>N: 6247611                                                                                      |
| Previous Land Use                                                 | Residential, agricultural and commercial                                                                     |
| Current Land Use                                                  | Commercial (retail, offices, restaurant, pub)                                                                |
| Proposed Land Use                                                 | Mixed use commercial and residential                                                                         |

### 2.2 Site Description

A detailed site inspection was completed by an appropriately qualified and experienced JBS&G environmental consultant on 11 July 2022. Access was limited to areas external to the buildings. Photographs taken during the inspection are presented in **Appendix A**.

The site is an irregular shaped block of land comprising commercial properties and carpark spaces, accessed via Broomfield Street (entry) and Cabramatta Road East (exit). Multiple commercial buildings occupy the site and current uses of the site are summarised in **Table 2.2**.

**Table 2.2 Summary of Current Site Uses**

| Lot                    | Address                      | Current Use                                                                                   |
|------------------------|------------------------------|-----------------------------------------------------------------------------------------------|
| Lot 7 Section E DP4420 | 76 Broomfield Street         | Three-storey building used as tutoring offices.                                               |
| Lot 1 DP205759         | 84 Broomfield Street         | Single - two storey structure being utilised as the Stardust Hotel and Restaurant.            |
| Lot 2 DP205759         | 86 Broomfield Street         | Single - two storey structure being utilised as a locksmith.                                  |
| Lot 5 DP25618          | 151 Cabramatta Road East     | Two storey structure being utilised by an accountant.                                         |
| Lot 6 DP25618          | 151 Cabramatta Road East     | Two storey structure being utilised by a real estate agent.                                   |
| Lot 7 DP25618          | 151 Cabramatta Road East     | Two storey structure being utilised by a butcher.                                             |
| Lot 8 DP25618          | 147-149 Cabramatta Road East | Two storey structures that were vacant and a carpark at the rear.                             |
| Lot 2 DP580587         | 139 Cabramatta Road East     | Single storey building utilised as a pharmacy.                                                |
| Lot 10 DP255023        | 84 Broomfield Street         | Carpark with three 20-foot containers were located, one to the east and two in the northwest. |



All buildings were generally of brick and concrete construction, and potentially comprise hazardous building materials. The site surface comprised a combination of building footprint, concrete and asphalt, with surface drainage serviced by stormwater drains.

## 2.3 Surrounding Landuse

The land uses surrounding the site have been identified as follows:

- North – the site is bound by a residential property, Seventh-Day Adventist Church, multi-storey carpark and apartment blocks, and low density residential properties further beyond;
- East – the site is bound by apartment blocks, commercial shops, Cabramatta Anglican Church, Macedonian Orthodox Church St Nikola and low density residential properties further beyond;
- South – the site is bound by Cabramatta Road East, commercial buildings, apartment blocks and low density residential properties further beyond; and
- West – the site is bound by Broomfield Street, Cabramatta Train Station/ railway line and commercial shops beyond.

## 2.4 Natural Site Setting

The environmental setting of the site as informed by site observations and the PSI (JK Environments 2023) is presented in **Table 2.3**.

**Table 2.3 Site Setting Summary**

| Environmental Aspect | Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topography           | The site is generally flat, with a very gentle slope towards the north.<br>Parts of the site may have been levelled to accommodate the existing development.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Geology & Soil       | The site is underlain by Bringelly Shale of the Wianamatta Group, which typically consists of shale, carbonaceous claystone, claystone, laminite, fine to medium grained lithic sandstone, rare coal and tuff.<br>The site is located within the Blacktown soil landscape. Blacktown soils are characterised by moderate erodibility with some higher local occurrences, low dispersity and localised areas of moderate salinity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Hydrology            | Surface water bodies were not identified in the immediate vicinity of the site. The closest surface water body is Orphan School Creek located approximately 1km, down-gradient, to the north of the site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hydrogeology         | A total of 55 groundwater bores are registered within 2 km of the site.<br>In summary: <ul style="list-style-type: none"> <li>• The nearest registered bore located approximately 930 m from the site is listed as being utilised for monitoring purposes;</li> <li>• The majority of the bores are registered for monitoring purposes;</li> <li>• The closest bores registered for domestic or irrigation uses are listed as 1,125 m from the site; and</li> <li>• The drillers log information from the closest registered bores typically identified fill and/or clay soil to depths of 5.5-14 m, underlain by shale bedrock. A standing water level (SWL) was only recorded in one bore, at 3.7m below ground level (m bgl).</li> </ul> Subsurface conditions at the site are likely to consist of relatively low permeability (residual) soils overlying shallow bedrock. The potential for viable groundwater abstraction and use of groundwater under these conditions is considered to be low. There is a reticulated water supply in the area and consumption of groundwater is not expected to occur. |

| Environmental Aspect     | Characteristics                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | Groundwater flow direction is anticipated to be towards the north based on local topography and surface water features.                                                                                                                                                                                                                                                    |
| Acid Sulfate Soils (ASS) | The site is not located in an identified ASS risk area.                                                                                                                                                                                                                                                                                                                    |
| Salinity                 | The site is located within a region identified as being of moderate salinity potential. The moderate classification is attributed to scattered areas of scalding and indicator vegetation, in areas where salinity concentrations have not been mapped. Saline areas may occur in this zone, which have not been identified or may occur if risk factors change adversely. |

## 2.5 Summary of Site Historical Records Review

A summary of the review of site historical records as outlined in the PSI (JK Environments 2023) is presented in **Table 2.4**.

**Table 2.4 Site Historical Records Summary**

| Information Source                      | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EPA and Department of Defence Databases | NSW EPA and Department of Defence databases did not return any results on records in relation to contamination on-site. Results for sites within 1 km of the site did not identify any off-site sources of contamination for the site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Australian and NSW Heritage Registers   | No results returned on-site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Section 10.7 Planning Certificate       | <p>A summary of the relevant details from the section 10.7 (2 and 5) planning certificates for the site is as follows:</p> <ul style="list-style-type: none"> <li>The land is not deemed to be significantly contaminated; subject to a management order; subject of an approved voluntary management proposal; or subject to an on-going management order under the provisions of the CLM Act 1997.</li> <li>The land is not the subject of a Site Audit Statement (SAS).</li> <li>The land is not located within an acid sulfate soil risk area.</li> <li>The land is not located in a heritage conservation area.</li> <li>Department of Infrastructure, Planning and Natural Resources map at the 1:100,000 scale '<i>Salinity Potential in Western Sydney 2002</i>' indicates there is potential for salinity in the region.</li> </ul>                                                                                                                                                                                                                                                                 |
| Aerial Photographs                      | <p>1930: Several residential-type structures were visible on the Broomfield Street frontage properties, at 76-86 Broomfield Street. The lot in the east of the site and lots to the south of the site appeared to be vacant and grassed.</p> <p>1943: A commercial-type building was now visible on 147-149 Cabramatta Road East.</p> <p>1955/56: A commercial type building was visible at the northern end of 151 Broomfield Street. This building extended out of the site to the north. Several additional outbuildings were also visible at the rear of No. 139 and 147-149 Cabramatta Road East.</p> <p>1961: Construction and clearing was occurring at the site.</p> <p>1965: Development completed on 84-86 Broomfield Street (consistent with current day).</p> <p>1970: An extension of the building located at 151 Cabramatta Road East (consistent with current day).</p> <p>1982: Building replaced at 76 Broomfield Street (consistent with current day). A commercial type building was now present at 139 Cabramatta Road East.</p> <p>1986-present: Site remains relatively unchanged.</p> |
| Historical Land Titles                  | Between 1924 and the present day, the properties comprising the site have been owned by various individuals, including a depot manager, motor mechanic, builders, labourers,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Information Source                   | Details                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      | <p>picture theatre proprietors, newspaper proprietors, newsagents, medical practitioners, and an orchardist.</p> <p>Between 1959 and the present day, the properties have been owned by private companies.</p>                                                                                                                                                                                 |
| SafeWork NSW Dangerous Goods Records | <p>Licences for the storage of dangerous goods including underground fuel storage tanks (USTs), above ground storage tanks (ASTs) or chemicals were not identified for the site.</p>                                                                                                                                                                                                           |
| Historical Business Directory        | <p>A motor garage/service station was registered at the site at no. 82 or 84-86 Broomfield Street between 1948 and 1972.</p> <p>Between 1950 and 1990, four dry cleaners and two motor garages/service stations were registered at locations between 10 and 200 m from the site.</p> <p>The above businesses are considered to be potential on-site and off-site sources of contamination.</p> |

## 3. Previous Site Investigation

### 3.1 Preliminary Site Investigation (JK Environments 2023)

A Preliminary Site Investigation (JK Environments 2023) was completed for the site in May 2023 to identify past or present potentially contaminating activities impacting the site and assess the need for further investigation. Review of available site background and historical information, and a site inspection were undertaken and a conceptual site model developed.

The PSI concluded there is potential for site contamination from the following potential sources / AECs:

- Fill material;
- Historical motor mechanic activities;
- Potential historical agricultural use;
- Use of pesticides;
- Hazardous building materials (former and existing buildings); and
- Off-site dry cleaning and motor garage/service station sites.

Intrusive investigation of the site was recommended to establish the contamination status of the site, suitability for the proposed development and any requirement for remediation. Other investigations including a hazardous building materials survey prior to demolition of buildings; waste classification of material proposed to be excavated; and salinity investigations were also recommended to be undertaken.

## 4. Preliminary Conceptual Site Model (CSM)

### 4.1 Potential Contamination Sources

Based on the PSI (JK Environments 2023) and observations made during the DSI inspection, sources of potential contamination / areas of environmental concern have been identified and are presented in **Table 4.1**.

**Table 4.1 Potential Contamination Sources and Contaminants of Potential Concern**

| Potential Contamination Sources                                                                                                                                                                                                                       | Contaminants of Potential Concern                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Potential for contaminated fill imported from various sources to have been used historically during levelling activities to achieve the existing site levels.                                                                                         | Heavy metals, organochlorine pesticides (OCPs), total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene and xylene (BTEX), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCBs) and asbestos |
| Historical mechanic workshop<br>Historical records review identified the likely location of a motor mechanic on Lot 1 DP205759 (no. 84 and/or 86 Broomfield Street)                                                                                   | Heavy metals, TRH, BTEX, VOCs and PAHs                                                                                                                                                                                        |
| Historical agricultural land use on Lot 1 and 2 DP205759 between 1921 and 1960.<br>Potentially contaminating activities include use of pesticides, machinery use/maintenance, use of asbestos irrigation pipes and building/demolition of structures. | Heavy metals, TRH, PAHs, asbestos, OCPs                                                                                                                                                                                       |
| Hazardous building materials present in existing buildings and from demolition of former buildings                                                                                                                                                    | Asbestos, lead and PCBs                                                                                                                                                                                                       |
| Historical off-site dry cleaners located within 200 m of the site.                                                                                                                                                                                    | TRH, BTEX, PAHs, PFAS and VOCs (including tetrachloroethene, trichloroethene, cis-1,2-dichloroethene and vinyl chloride)                                                                                                      |

### 4.2 Potentially Contaminated Media

Potentially contaminated media at the site include:

- Soil (fill materials and natural materials);
- Groundwater; and
- Soil vapour.

### 4.3 Potential for Migration

The potential for contaminants to migrate is a combination of:

- The nature of the contaminants (solid/liquid and mobility characteristics);
- The extent of the contaminants (isolated or widespread);
- The location of the contaminants (surface soils or at depth); and
- The site topography, geology, hydrology and hydrogeology.

Contaminants generally migrate from a site via a combination of windblown dusts, rainwater infiltration, groundwater migration and surface water runoff.

## 4.4 Receptors and Exposure Pathways

Potential pathways and receptors of contamination within the site include:

- Current and future site users who may potentially be exposed to COPCs through direct contact with or ingestion of impacted soils and/or inhalation of dusts/fibres and vapours (volatile compounds) associated with impacted soils if disturbed;
- Excavation/construction/maintenance workers conducting activities at the site, who may potentially be exposed to COPCs through direct contact with impacted soils present within excavations and/or inhalation of dusts/fibres associated with impacted soils;
- Ecological receptors include fauna and flora species within the landscaped areas of the site, and aquatic ecology within the receiving waters of Orphan School Creek; and
- Existing and/or future users/occupants of and/or workers at adjoining properties should contamination migrate from the site. f.

The site is currently primarily covered by concrete and bitumen with limited vegetation, presenting low potential ecological receptors.

## 4.5 Preferential Pathways

For the purpose of this assessment, preferential pathways have been defined as natural and/or man-made pathways that result in the preferential migration of COPC as either solid (sediments, dust, etc) or liquid (surface water).

Man-made preferential pathways are likely present throughout the site, generally associated with areas of previously disturbed natural ground present beneath the existing ground surface, including areas where underground services have been installed. Depending upon fill soil characteristics, fill materials and disturbed natural soil are anticipated to have a higher permeability than the underlying natural soils and/or bedrock.

## 5. Sampling, Analysis and Quality Plan

### 5.1 Data Quality Objectives

Data quality objectives (DQOs) were developed for the investigation, as discussed in the following sections.

#### 5.1.1 State the Problem

An assessment including intrusive soil, groundwater and soil vapour sampling and visual inspection is required to determine the contamination status and any requirement for remediation of the site in order for the site to be suitable for redevelopment for the proposed high density mixed land use.

#### 5.1.2 Identify the Decision

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017<sup>3</sup>), the following decisions must be made:

- Are there any unacceptable risks to likely future on-site receptors?
- Are there any issues relating to local background soil concentrations that exceed appropriate site soil criteria?
- Are there any aesthetic issues at the site?
- Is there any evidence of, or potential for, migration of contaminants from the site?
- Is further assessment and/or a site management strategy required?

#### 5.1.3 Identify Inputs to the Decision

Inputs identified to make the decisions nominated above include:

- Desktop review of historical and current site uses to identify areas of potential concern;
- Detailed site inspection/walkover;
- Physical observations and interpretation of fill, natural soil material, groundwater and soil vapour through the sampling and analysis of samples;
- Assessment criteria for evaluation of soil, groundwater and soil vapour impacts; and
- Confirmation that data generated by sampling and analysis are of an acceptable quality to allow reliable comparison to assessment criteria as undertaken by assessment of quality assurance / quality control (QA/QC) as per the data quality indicators (DQIs) established in **Section 5.1.6**.

#### 5.1.4 Define the Study Boundaries

The lateral study boundaries are limited to the cadastral boundaries of the site, as shown on **Figure 2**.

The vertical extent of the investigation was to a maximum depth of 10.1 m bgl, considered adequate for the known historical site uses.

#### 5.1.5 Develop a Decision Rule

Analytical data for potentially contaminated media will be assessed against NSW EPA approved criteria

The decision rules adopted to answer the decisions identified in **Section 5.1.2** are summarised in **Table 5.1**.

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<sup>3</sup> *Contaminated Sites: Guidelines for the NSW Site Auditor Scheme*, 3rd Edition. NSW EPA, 2017 (EPA 2017)



**Table 5.1 Summary of Decision Rules**

| Decisions Required to be Made                                                                                            | Decision Rule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Are there any unacceptable risks to on-site future receptors?                                                         | <p>Analytical data were compared against EPA endorsed criteria as identified in <b>Section 6</b>.</p> <p>Statistical analysis of the data was completed in accordance with relevant guidance documents, as appropriate, to facilitate the decisions.</p> <p>The following statistical criteria were adopted with respect to soil, groundwater and soil vapour:</p> <p>Either: the reported concentrations were all below the site criteria;</p> <p>Or: 95 % UCL of the average concentration for each analyte was below the adopted site criterion; no single analyte concentration exceeded 250 % of the adopted site criterion; and the standard deviation of the results was less than 50 % of the site criterion;</p> <p>If the statistical criteria stated above were satisfied, the answer to the decision was <b>No</b>.</p> <p>If the criteria were not satisfied, the answer to the decision was <b>Yes</b>.</p> |
| 2. Are there any issues relating to the local area background soil concentrations that exceed appropriate soil criteria? | <p>If COPC concentrations in soils exceeded published background concentrations (NEPC 2013), the answer to the decision is <b>Yes</b>.</p> <p>Otherwise, the answer to the decision is <b>No</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3. Are there any aesthetic issues?                                                                                       | <p>If there were any asbestos containing material (ACM) fragments on the ground surface, any unacceptable odours or soil discolouration, , the answer to the decision is <b>Yes</b>.</p> <p>Otherwise, the answer to the decision is <b>No</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4. Is there any evidence of, or potential for, migration of contaminants from the site?                                  | <p>Based on assessment results, is there any evidence of, or the potential for, migration of unacceptable contaminant concentrations to migrate from the site?</p> <p>If yes, the answer to the decision is <b>Yes</b>.</p> <p>Otherwise, the answer to the decision is <b>No</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 5. Is further assessment and/or a site management strategy required?                                                     | <p>Where the answer to any of the above decisions is Yes and/or there are potential environmental data gaps identified from this investigation, then the response is <b>Yes</b>, and further assessment and/or a site management strategy is required.</p> <p>Otherwise, further assessment and/or a site management strategy are not required and the site is considered suitable, from a contamination perspective for the proposed uses.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### 5.1.6 Specify the Limits on Decision Errors

This step is to establish the decision maker's tolerable limits on decision errors, which are used to establish performance goals for limiting uncertainty in the data. Data generated during this project must be appropriate to allow decisions to be made with confidence.

Specific limits for this project have been adopted in accordance with the appropriate guidance from the NSW EPA, NEPC (2013) ASC NEPM, appropriate indicators of data quality used to assess QA/QC, and standard JBS&G procedures for field sampling and handling.

To assess the usability of the data prior to making decisions, the data will be assessed against pre-determined data quality indicators (DQIs) established for the project as discussed below in relation to precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS parameters). The acceptable limit on decision error is 95% compliance with DQIs.

The pre-determined DQIs established for the project are discussed below in relation to the PARCCS parameters and are shown in **Table 5.2**.

- **Precision** – measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples.
- **Accuracy** – measures the bias in a measurement system. The accuracy of the laboratory data that are generated during this study is a measure of the closeness of the analytical results obtained by a method to the 'true' value. Accuracy is assessed by reference to the analytical results of laboratory control samples, laboratory spikes and analyses against reference standards.
- **Representativeness** – expresses the degree which sample data accurately and precisely represent a characteristic of a population or an environmental condition. Representativeness is achieved by collecting samples on a representative basis across the site, and by using an adequate number of sample locations to characterise the site to the required accuracy.
- **Comparability** – expresses the confidence with which one data set can be compared with another. This is achieved through maintaining a level of consistency in techniques used to collect samples; and ensuring analysing laboratories use consistent analysis techniques; and reporting methods.
- **Completeness** – is defined as the percentage of measurements made which are judged to be valid measurements. The completeness goal is set at there being sufficient valid data generated during the study.
- **Sensitivity** – expresses the appropriateness of the chosen field and laboratory methods, including the limits of reporting, in producing reliable data in relation to the adopted site assessment criteria.

**Table 5.2 Data Quality Indicators**

| Data Quality Indicators                                                                              | Frequency                  | Data Quality Criteria                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precision</b>                                                                                     |                            |                                                                                                                                                                                                                                                           |
| Field duplicate (intra laboratory)                                                                   | 1 / 20 samples/media       | <50% RPD <sup>1</sup>                                                                                                                                                                                                                                     |
| Field Triplicate (Inter laboratory)                                                                  | 1 / 20 samples/media       | <50% RPD <sup>1</sup>                                                                                                                                                                                                                                     |
| Laboratory Duplicates                                                                                | 1 / 20 samples/media       | <50% RPD <sup>1</sup>                                                                                                                                                                                                                                     |
| <b>Accuracy</b>                                                                                      |                            |                                                                                                                                                                                                                                                           |
| Surrogate spikes                                                                                     | All organic samples        | 70-130% recovery                                                                                                                                                                                                                                          |
| Laboratory control samples                                                                           | 1 per lab batch            | 70-130% recovery                                                                                                                                                                                                                                          |
| Matrix spikes                                                                                        | 1 per lab batch            | 70-130% recovery                                                                                                                                                                                                                                          |
| <b>Representativeness</b>                                                                            |                            |                                                                                                                                                                                                                                                           |
| Sampling appropriate for media and analytes                                                          | All samples                | .. <sup>2</sup>                                                                                                                                                                                                                                           |
| Samples extracted and analysed within holding times.                                                 | -                          | Soil: organics (14 days), inorganics (6 months)<br>Groundwater: metals (6 months, other than mercury – 28 days), sVOCs (>C <sub>10</sub> – 7 days), volatiles (C <sub>6</sub> -C <sub>9</sub> – 14 days)<br>Soil vapour: sorbent tubes VOCs/TRH (28 days) |
| Laboratory blanks                                                                                    | 1 per lab batch            | <LOR                                                                                                                                                                                                                                                      |
| Trip spike                                                                                           | 1 per lab batch            | 70-130% recovery                                                                                                                                                                                                                                          |
| Trip blank                                                                                           | 1 per lab batch            | <LOR                                                                                                                                                                                                                                                      |
| Field blank (PFAS & Soil Vapour)                                                                     | 1 per sampling event/media | <LOR                                                                                                                                                                                                                                                      |
| Equipment/rinsate blank                                                                              | 1 per sampling event/media | <LOR                                                                                                                                                                                                                                                      |
| <b>Comparability</b>                                                                                 |                            |                                                                                                                                                                                                                                                           |
| Standard operating procedures for sample collection & handling                                       | All samples                | All samples                                                                                                                                                                                                                                               |
| Standard analytical methods used for all analyses                                                    | All samples                | NATA accredited method                                                                                                                                                                                                                                    |
| Consistent field conditions, sampling staff and laboratory analysis                                  | All samples                | All samples <sup>2</sup>                                                                                                                                                                                                                                  |
| Limits of reporting appropriate and consistent                                                       | All samples                | All samples <sup>2</sup>                                                                                                                                                                                                                                  |
| <b>Completeness</b>                                                                                  |                            |                                                                                                                                                                                                                                                           |
| Sample description and COCs completed and appropriate                                                | All samples                | All samples <sup>2</sup>                                                                                                                                                                                                                                  |
| Appropriate documentation                                                                            | All samples                | All samples <sup>2</sup>                                                                                                                                                                                                                                  |
| Satisfactory frequency and result for QC samples                                                     | All QA/QC samples          | 95% compliance                                                                                                                                                                                                                                            |
| Data from critical samples is considered valid                                                       | -                          | Critical samples valid                                                                                                                                                                                                                                    |
| <b>Sensitivity</b>                                                                                   |                            |                                                                                                                                                                                                                                                           |
| Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria | All samples                | LOR ≤ site assessment criteria                                                                                                                                                                                                                            |

<sup>1</sup> If the RPD between duplicates is greater than the pre-determined data quality indicator, a judgment will be made as to whether the excess is critical in relation to the validation of the data set or unacceptable sampling error is occurring in the field.

<sup>2</sup> A qualitative assessment of compliance with standard procedures and appropriate sample collection methods will be completed during the DQI compliance assessment.

## 5.2 Optimise the Design for Obtaining Data

The purpose of this step is to identify a resource-effective field investigation sampling design that generates data that is expected to satisfy the criteria specified in the preceding steps of the DQO process. This step provides a general description of the activities necessary to generate and select data collection designs that satisfy decision performance criteria.

EPA (2022) *Contaminated Land Guidelines: Sampling design part 1 - application* outlines multiple sampling strategies to assess site contamination, they include:

- Judgemental sampling (targeted) where sampling locations are selected based on known or suspected areas of potential contamination at the site. This technique makes use of the site history and field observations;
- Systematic sampling (probabilistic) where sampling locations are placed at regular intervals over an area;
- Random sampling (probabilistic) where sampling locations are randomly (with no biases) placed across an area; and
- Strategic sampling (targeted and/or probabilistic) where a site is broken down into different sections and different sampling approaches used within different areas based off the known history.

Based on an in depth site history previously undertaken as part of the PSI (JK Environments 2023) which outlined areas of environmental concern; access restrictions at the site with occupied buildings comprising significant proportion of the site; and the proposed excavation to construct a 3 level basement across the whole site, judgemental sampling (targeted) was undertaken in accordance with the requirements of NSW EPA 2022

The sampling approach adopted for the DSI is outlined in **Table 5.3**.

**Table 5.3 Summary of Investigation Approach**

| Areas of Environmental Concern                                                                                                                                                                                            | Justification                                                                                         | Number of Samples |             |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------|-------------|-------------|
|                                                                                                                                                                                                                           |                                                                                                       | Soil              | Groundwater | Soil Vapour |
| Potential for contaminated fill through import of material during levelling activities to achieve the existing levels, hazardous building material from historic demolition works and/or historical agricultural landuse. | Samples were placed across the site within accessible locations to assess the site wide fill.         | 10 locations      | -           | -           |
| Historical mechanics workshop (title identified a part of the site was owner by a motor mechanic)                                                                                                                         | Sample locations in the vicinity of 84 Broomfield Street where the mechanics was potentially located. | -                 | 1 location  | 3 locations |
| Historical Offsite Dry cleaners                                                                                                                                                                                           | Sample locations surrounding the southeast boundary, area of site closest to the former dry cleaners. | 2 locations       | 2 locations | 5 locations |

## 5.3 Assessment Methodology

### 5.3.1 Soil Assessment Methodology

Soil sampling was completed via solid flight auger on a drill rig to a maximum depth of 10.1 m bgs (at least 0.3 m below natural soil) under the supervision of an experienced JBS&G consultant.

Selected soil samples were screened for potential VOCs using a portable photo-ionisation detector (PID). During the collection of soil samples, features such as seepage, discolouration, staining, odours and other indicators of contamination were noted. Soil bore logs are provided in **Appendix B**.

Collected samples were immediately transferred to laboratory supplied sample jars and bags. The sample jars were then transferred to a chilled ice box for sample preservation prior to and during shipment to the testing laboratory. For asbestos in soil samples, bags were utilised to collect 500 mL soil samples for asbestos analysis consistent with NEPC (2013). A chain-of-custody (COC) form was completed and forwarded with the samples to the testing laboratory. Based upon field observations, samples were analysed in accordance with the laboratory schedule provided in **Table 5.4**. All samples will remain at the primary laboratory for a period of two months for possible future analysis (subject to holding times) if required following the receipt of sample results.

### 5.3.2 Groundwater Assessment Methodology

The following methodology was undertaken for the installation of the monitoring wells:

- The monitoring wells were constructed using 50 mm Class 18 uPVC screen and casing (pressure rated to conform to AS1477). The National Water Commission's *Minimum Construction Requirements for Water Bores in Australia* (February 2012) recommends Class 12 is used for most bore construction applications, with Class 9 suitable for some shallow bores. Class 18 as used in construction of wells at the site is considered suitable. The uPVC screen and casing pipe had machine cut threads with rubber O-rings to ensure a tight seal between casing lengths and to avoid the use of glues / lubricants in constructing the well. The uPVC is inert and compatible with the COPCs.
- A graded sand pack was installed from the bottom of the drilled borehole to slightly above the screened interval. Bentonite pellets were used to backfill from about 0.5 m above the filter pack, and activated with a small amount of potable water. Clean drilling cuttings were filled between the bentonite seal and below the monument. The well pipe was sealed with a gripper.
- The wells were developed following installation and adequate groundwater recharge to ensure adequate hydraulic connection with the aquifer. This involved manually purging each well with a metal bailer. Minimal silt remained in each well, and about 20 L was developed.

Monitoring wells were screened from approximately 5 to 7 m to the total well depth, sufficient to intercept groundwater. Well construction details and the soil lithology logs are provided in **Appendix B**.

The depth to standing water was gauged and an assessment of the presence of light non-aqueous phase liquids (LNAPL) and dense non-aqueous phase liquids (DNAPL) was made using an interface probe.

Wells were purged and sampled using a low-flow peristaltic pump. Purging was undertaken to ensure the sample collected was representative of groundwater. Field parameters of pH, electrical conductivity (EC), redox (Eh), dissolved oxygen (DO) and temperature were measured using a field meter with electrodes placed in a flow cell and samples obtained once the parameters stabilised such that:

- Consecutive EC readings are within 3%;
- Consecutive Eh readings are within 10mV;
- Consecutive DO readings are within 10%;
- Consecutive pH readings are within 0.5; and
- Consecutive temperature readings are within 0.2°C.

Collected groundwater samples were immediately transferred to laboratory supplied sample bottles in the order of those from most to least volatile contaminants. The sample containers were then transferred to a chilled iced box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with the samples. Samples were analysed at a NATA accredited laboratory for the required analyses as presented in **Table 5.4**.

### 5.3.3 Soil Vapour Assessment Methodology

To assess for potential contamination from the former on-site motor mechanic and impact associated with dry cleaners located upgradient from the site, JBS&G installed eight sub-slab soil vapour probes within accessible locations.

Subslab soil vapour pins were installed with the following method

- The concrete hardstand was penetrated by rotary 16 mm drill bit hammer drill through to the underlying soil;
- The hole was cleaned out using a stainless steel wire brush;
- A stainless-steel vapour pin (85 mm length) with silicon tubing sleeve was inserted into the 16 mm core hole with a hammer and vapour pin installation tool; and
- The tip of the pin was connected to a three-way valve (set to the 'off' position) via a piece of silicon.

Thick medical grade silicon was used to create an airtight seal between the pin and concrete. Following sample collection, the sample train (three-way valve and attached silicon) was discarded and the pin completely removed from the concrete. The concrete puncture was backfilled with fast-setting concrete to restore the slab condition.

Sub-slab soil vapour samples were collected from the vapour pins using carbon absorption tubes. Vapour pins were initially screened using a PID to provide a line of evidence regarding the likely magnitude of total VOC concentrations at each sampling location.

The vapour pins were leak tested by placing an isopropyl alcohol-soaked rag surrounding the top of the vapour pins and observing PID readings during vapour pin purging. If an increase in PID readings were observed then the vapour pin was confirmed to be leaking and required re-installation. Upon confirming the pins were adequately sealed, sub-slab soil vapour samples were collected using carbon tubes by drawing 25 L of soil vapour through the carbon tubes using an air pump. A chain-of-custody form was completed and forwarded with the samples. Samples were analysed in accordance with the laboratory schedule provided in **Table 5.4**.

### 5.3.4 Decontamination

Prior to the commencement of soil sampling activities, non-disposable sampling equipment, were cleaned with a Decon 90 (or equivalent) solution and a deionized water to remove any gross residual soil and then air dried. The equipment was then be inspected to ensure that no soil, oil, debris, or other contaminants were apparent on the equipment prior to the commencement of works.

A rinsate sample was obtained from non-disposable sampling equipment following completion of each day of field sampling activities to determine the effectiveness of the decontamination procedures implemented on re-usable sampling equipment.

Decontamination records are provided in **Appendix C**.

### 5.3.5 Duplicate and Triplicate Sample Preparation

At selected sample locations, sufficient soil / water was collected to provide a primary, a field (intra-laboratory) duplicate and a field (inter-laboratory) triplicate sample using the sampling methodology outlined above.

At selected soil vapour sample locations, a primary and a field (intra-laboratory) duplicate sample were collected.

### 5.3.6 Laboratory Analysis

JBS&G contracted Eurofins MGT (Eurofins), as the primary laboratory and Envirolab Service Pty Ltd (Envirolab), as the secondary laboratory, for the required analyses. Both laboratories are National Association of Testing Authorities (NATA) registered for the required analyses. In addition, the laboratory was required to meet JBS&G's internal QA/QC requirements. The analysis schedule is summarised in **Table 5.4**.

**Table 5.4 Summary of Investigation program and laboratory analysis schedule**

| Sample Type | No. of Sampling Locations | Laboratory Analyses (excludes QA/QC)                                                                                                                                                                                                                         |
|-------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Soil        | 10 locations              | Metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) – 10 samples<br>TRH – 10 samples<br>PAH – 10 samples<br>VOCs – 10 samples<br>OCPs – 5 samples<br>PCBs – 5 samples<br>Asbestos – 10 samples (500 mL samples + visual assessment at all locations)<br>PFAS – 4 samples |
| Groundwater | 3 locations               | Metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) – 3 samples<br>TRH – 3 samples<br>VOCs – 3 samples<br>PAH – 3 samples<br>PFAS – 3 samples<br>Hardness – 3 samples                                                                                                    |
| Soil Vapour | 8 locations               | VOCs – 8 samples<br>TRH – 8 samples                                                                                                                                                                                                                          |

In addition to the above, for QA/QC purposes field duplicate and triplicate samples were analysed at a rate of 1/20 primary samples for key COPCs. Rinsate samples were collected from non-disposable sampling equipment, and a trip spike and trip blank accompanied the samples per event.

## 6. Assessment Criteria

### 6.1 Regulatory Guidelines

Development of the scope of investigation and adoption of site assessment criteria was undertaken with consideration to aspects of the following guidelines, as relevant:

- *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)*, National Environment Protection Council (NEPC 2013);
- *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme*, 3rd Edition, NSW EPA, 2017 (EPA 2017);
- *Contaminated land guidelines: Consultants reporting on contaminated land*, NSW EPA, April 2020 (EPA 2020);
- *Waste Classification Guidelines, Part 1: Classifying Waste*, NSW EPA, November 2014 (EPA 2014);
- *Contaminated Land Guidelines: Sampling design part 1 – application*, NSW EPA, August 2022 (EPA 2022);
- *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*, Australian and New Zealand Governments and Australian State and Territory Governments (ANZG), Water Quality Australia, Canberra ACT, Australia, 29 August 2018 (ANZG 2018);
- *Guidelines for Managing Risks in Recreational Water*, National Health and Medical Research Council, 2008 (NHMRC 2008); and
- *PFAS National Environmental Management Plan (NEMP)*, Version 2.0, January 2020, Heads of EPAs Australia and New Zealand (HEPA 2020).

Where there are no NSW EPA approved threshold for an individual COPC, the laboratory limit of reporting (LOR) was adopted as an initial screening value for the purposes of this assessment.

#### 6.1.1 Soil Assessment Criteria

Due to the site being developed for a mixed use where childcare centres are able to be developed, NEPC (2013) land use Setting A for residential with garden/accessible soil and including childcare centres, preschools and primary schools is adopted.

Analysed COPC concentrations in soil samples were compared against the following and present in **Table A**:

- Health Investigation Levels (HILs) 'residential with opportunity for soil access' (HIL A) land use scenario;
- Soil Health Screening Levels (HSLs) for Vapour Intrusion in clay, 'residential' (HSL A/B) land use scenario with clay soils;
- HSL for asbestos contamination in soil, Residential A (HSL A);
- Ecological Screening Levels (ESLs) 'Urban Residential and Public Open Space' land use scenario, in fine soil; and
- Ecological Investigation Levels (EILs) 'Urban Residential and Public Open Space' land use scenario.



TRH Management Limits for consideration of the formation of Light Non-Aqueous Phase Liquids (LNAPLs), fire and explosive hazards, and effects on buried infrastructure under the 'residential/parkland' land use scenario with fine soils are considered where required after assessment of health and ecological criteria, per NEPC (2013) guidance.

EPA (2017) and NEPC (2013) require consideration of aesthetic issues for all land uses. Aesthetic considerations include staining, odours and anthropogenic materials. Consideration is given herein to NEPC (2013) guidance on aesthetics in the context of the proposed land uses.

### 6.1.2 Groundwater Assessment Criteria

The adopted groundwater investigation levels presented in **Table B** and are summarised as follows:

- Groundwater health screening levels (HSLs A/B) for vapour intrusion in clay soil for residential land use as presented in NEPC (2013);
- Recreational criteria adopted as a conservative assessment of recreational contact risk in receiving waters, from Guidelines for Managing Risks in Recreational Water (NHMRC (2008) as 10x the drinking water criteria (2011<sup>4</sup>) for health;
- To assess the potential risk of contaminated groundwater migrating from the site to nearby waterbodies, reference has been made to the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG 2018). Given the urbanised nature of Orhan School Creek as the nearest receiving water body, criteria for protection of 95 % species in a moderately disturbed, marine ecosystem have been adopted; and
- Groundwater health screening levels (HSLs) for vapour intrusion from groundwater as presented in CRC Care (2011).

### 6.1.3 Soil Vapour Assessment Criteria

The adopted soil vapour investigation/screening levels for residential land use scenarios are presented in **Table D**, and are summarised as follows:

- ASC NEPM (2013) HSLs (A/B) for soil vapour (for TRHs, BTEXN); and
- NEPC (2013) Interim soil vapour HILs for volatile organic chlorinated compounds.

Soil vapour criteria for clay soils were adopted given the predominantly clay site soils.

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<sup>4</sup> Australian Drinking Water Guidelines, National Health and Medical Research Council (NHMRC 2011, updated January 2022)

## 7. Quality Assurance / Quality Control

### 7.1 QA/QC Assessment

The QA/QC results for samples collected at the site are summarised and discussed in **Appendix E**. Detailed QA/QC results are included in the laboratory reports.

The field sampling and handling procedures produced QA/QC results which indicate that the soil, groundwater and soil vapour data are of an acceptable quality and suitable for use in site characterisation.

The NATA certified laboratory results sheets indicate that the project laboratory was generally achieving levels of performance within its recommended control limits during the period when the samples of this program were analysed.

On the basis of the results of the field and laboratory QA/QC program, the soil, groundwater and soil vapour data are of an acceptable quality upon which to draw conclusions regarding the environmental condition of the site.

## 8. Investigation Results

### 8.1 Soil Field Observations

The lithology encountered at the site during the field works is summarised below. Detailed logs are included in **Appendix B**. A total of 10 soil sample locations were advanced across the site.

Site surfaces comprised concrete or asphalt to depths of approximately 0.2 m bgl outside of building footprints. Generally, grey/brown/dark brown sandy clay and clay fill material was present below site surfaces to maximum depths of between 0.2 – 1.5 m bgs. Fill observed at the site contained inclusions of gravels (road base), concrete and plastic. Fill materials were underlain by grey/orange/brown/red mottled natural clay.

No ACM, odours or staining were observed in any of the soil sampling locations across the site.

### 8.2 Soil Laboratory Results

Representative samples were collected across the site and were analysed for a range of COPCs. The summarised laboratory results are presented in **Table A**. Detailed laboratory reports and chain of custody documentation are provided in **Appendix F**.

#### 8.2.1 Heavy Metals

Concentrations of heavy metals were reported below the adopted site criteria in soil samples selected for analysis with the exception of:

- Lead at MW02\_0.2-0.3 exceeded the adopted health criteria with a concentration of 420 mg/kg above the criteria of 300 mg/kg;
- Zinc at BH01\_0.3-0.4 (duplicate and triplicate), BH06\_0.3-0.4, BH07\_0.3-0.4 and MW02\_0.3-0.4 exceeded the adopted ecological criteria with concentrations of 140 mg/kg, 240 mg/kg, 78 mg/kg and 230 mg/kg, respectively, above the criteria of 70 mg/kg.

#### 8.2.2 TRH and BTEX

TRH and BTEX concentrations were reported below the LOR and/or the adopted site criteria in soil samples selected for analysis.

#### 8.2.3 PAH

PAH concentrations were reported below the LOR and/or the adopted site criteria in soil samples selected for analysis.

#### 8.2.4 VOC

VOC concentrations were reported below the LOR and the adopted site criteria in soil samples selected for analysis.

#### 8.2.5 OCP

OCP concentrations were reported below the LOR and/or the adopted site criteria in soil samples selected for analysis.

#### 8.2.6 PCBs

PCB concentrations were reported below the LOR and the adopted site criteria in soil samples selected for analysis.

### 8.2.7 Asbestos

Asbestos concentrations in all analysed soil samples were reported below the LOR and the adopted assessment criteria.

### 8.2.8 PFAS

PFAS concentrations were reported below the LOR and/or the adopted site criteria in soil samples selected for analysis.

## 8.3 Groundwater Results

Groundwater analytical results are presented in **Table B**. The following sections provide a summary of the analytical results with detailed laboratory certificates provided in **Appendix F**.

### 8.3.1 Groundwater Field Parameters and Observations

The locations of the groundwater monitoring wells included in the groundwater assessment are shown on **Figure 3**. A summary of field measured parameters are provided in **Table C**.

Groundwater was encountered between 1.9 m below top of casing (b toc) at MW01 and 2.444 m btoc at MW02. Review of the field parameters indicated that the groundwater on-site was marginally acidic pH (5.55-5.66), with EC moderately saline (7,973 – 17,881  $\mu\text{S}/\text{cm}$ ) and dissolved oxygen (2.64 – 2.87 mg/L).

### 8.3.2 Heavy Metals

Concentrations of heavy metals in groundwater were not reported above the ANZG marine water 95% protection level criteria with the exception of copper, nickel and zinc in one (primary and duplicate), two and three wells respectively. The concentration of nickel sampled from MW02 (0.26  $\mu\text{g}/\text{L}$ ) was reported above the adopted recreational waters criteria (0.2  $\mu\text{g}/\text{L}$ ).

All other heavy metal concentrations were reported below the laboratory limits or reporting and/or adopted site criteria.

### 8.3.3 TRH

TRH concentrations were reported below the LOR and/or the adopted site criteria.

### 8.3.4 PAH

PAH concentrations were reported below the LOR and/or the adopted site criteria.

### 8.3.5 VOCs

VOC concentrations were reported below the LOR and/or the adopted site criteria.

### 8.3.6 PFAS

PFAS concentrations were reported below the LOR and/or the adopted site criteria.

## 8.4 Soil Vapour Results

Soil vapour results are presented in **Table D**. The following sections provide a summary of the analytical results with detailed laboratory certificates provided in **Appendix F**.

### 8.4.1 Soil Vapour Field Parameters and Observations

The assessment included the advancement of three sub-slab soil vapour points (SV01 to SV08), with sample locations shown on **Figure 3**. Recorded field measured parameter results are provided in **Table E**.

After purging, oxygen levels were found to range from 12.9 % (SV05) to 20.3 % (SV06), carbon dioxide (CO<sub>2</sub>) ranged from 0.1 % (SV01, SV06 and SV09) to 2 % (SV02) and methane was not detected in the soil vapour sampling locations. PID screening results of sub-slab vapour sampling points ranged from 0.5 ppm (SV05) to 26.6 ppm (SV06), which are indicative of low levels of volatile organic compounds in soil vapour at the site.

### 8.4.2 Analytical Results

VOCs concentrations were below the LOR and site assessment criteria with the exception of SV03 with a concentration of cis-1,2-dichloroethene above the adopted site assessment criteria and Tetrachloroethene detected but below the site assessment criteria.

## 9. Site Characterisation

**Section 5.1.5** provides decisions to be addressed in order to satisfy the objectives of the site assessment. Discussion of each of the decisions is provided in the following sections.

### 9.1 Are there any unacceptable risks to likely future on-site receptors?

#### Soil

Soil COPC concentrations were below the adopted LORs and/or adopted site assessment criteria. Lead at one location and Zinc concentrations at four locations exceeding the adopted ecological criteria are not considered to pose an unacceptable risk as no individual concentration was greater than 250% of the EIL. The exceedances are located within fill soil which will be removed as part of the proposed development, design plans included in **Appendix D**. Upon completion of development there will be no complete exposure pathway to any ecological receptors.

#### Groundwater

The elevated heavy metal concentrations are within typical concentrations for urban environments, with low soil concentrations and no likely source from current or historic site activities.

#### Soil Vapour

The elevated concentration of cis-1,2-dichloroethene detected in soil vapour only at SV03 is an isolated exceedance with concentrations not detected above the laboratory limit of reporting and therefore adopted site criteria in all surrounding sample locations. The single exceedance of the adopted site criteria does not indicate an elevated risk to future on-site-receptors. The proposed development comprises a Multi-level basement to be excavated across the footprint of the site thus removing the source material of the detected impact and any associated risk to future receptors.

### 9.2 Are there any issues relating to background soil concentrations that exceed appropriate site soil criteria?

Soil samples collected from natural soils reported heavy metal concentrations below the background metal concentrations for urban areas (NEPC 2013). On this basis, there are considered to be no issues in relation to local area background soil conditions that require further consideration.

### 9.3 Are there any aesthetic issues at the site?

No aesthetic issues (asbestos, odours or staining) were identified at the site.

### 9.4 Is there any evidence of, or potential for, migration of contaminants from the site?

The results do not indicate potential migration of contaminants off the site.

### 9.5 Is a site management strategy required?

Subject to the limitations presented in **Section 11** and based on the findings of this investigation, a remedial action plan (RAP) is required to be prepared for the excavation and appropriate disposal of fill associated with the construction of a basement across the footprint of the site.

## 10. Conclusions and Recommendations

### 10.1 Conclusions

Based on the results of the DSI undertaken at the site and the limitations in **Section 11**, it is concluded that:

- The detection of cis-1,2-dichloroethene above the adopted site criteria in soil vapour indicates there is potential for some migration of impact from a neighbouring former dry cleaning operation however, the single isolated occurrence does not pose a risk to on-site receptors. Under the proposed development plans including the excavation of a multi-level basement across the footprint of the site, there are no unacceptable risks posed to future on-site receptors;
- There are no issues relating to background soil concentrations that require further consideration;
- There are no aesthetic issues; and
- The results do not indicate any potential migration of contaminants off the site.

On the basis of the above, the site can be made suitable for the proposed mixed-use development including a multi-level basement across the footprint of the site as outlined in the design plans in **Appendix D**, with the development and implementation of a RAP to document the removal and appropriate disposal of fill material from across the site.

### 10.2 Recommendations

A RAP should be developed for the site in accordance with relevant guidelines.

An Unexpected Finds Protocol should be developed to manage the potential presence of asbestos which may not have been detected as part of the investigation and may be encountered during development works.

## 11. Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client, or amended in any way without prior approval by JBS&G, and should not be relied upon by other parties, who should make their own enquiries.

Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements.

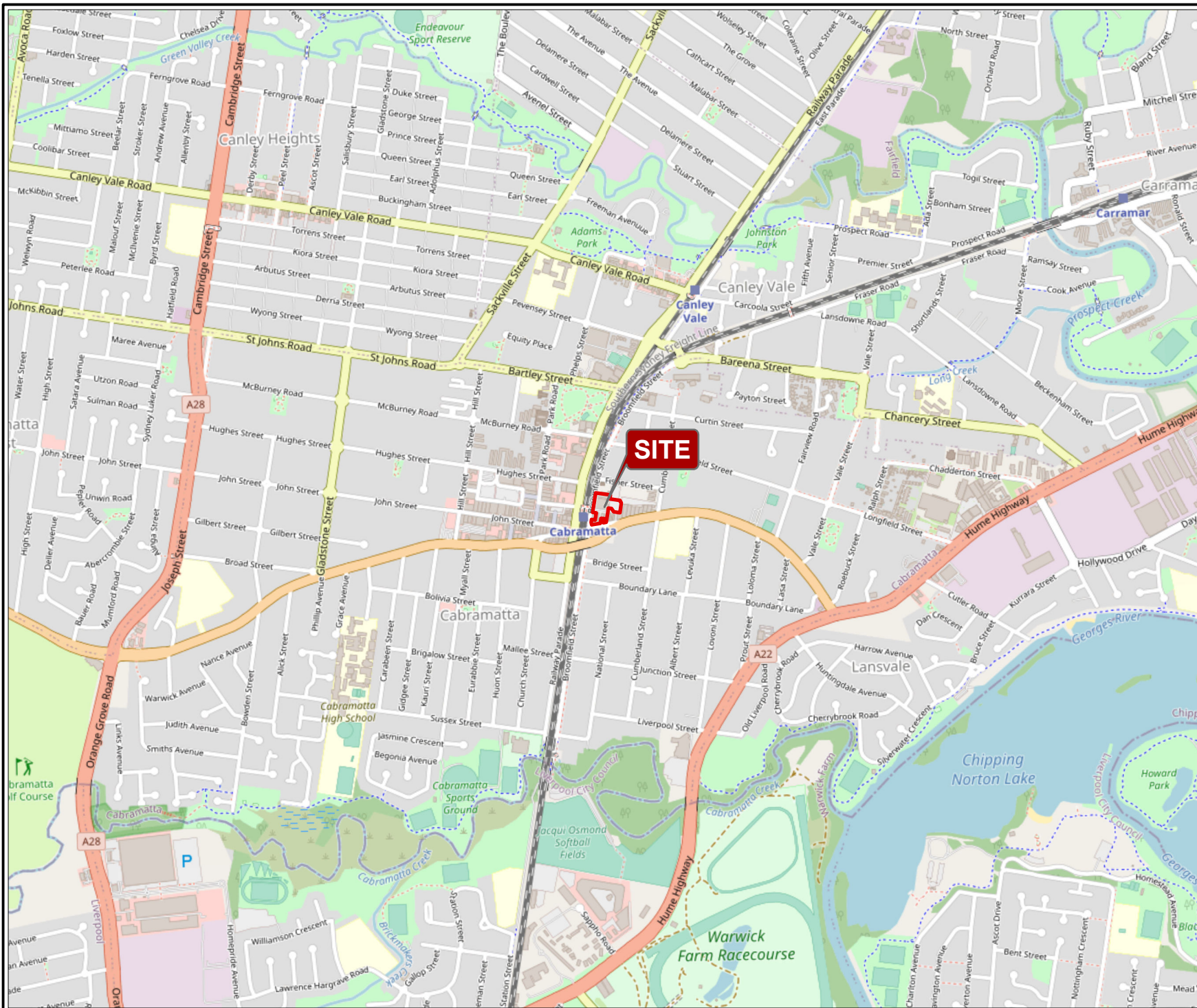
Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Ground conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.



## Figures



**Legend**  
 Approximate Site Boundary



Job No: 65196

Client: Moon Investments

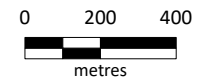
Version: R01 Rev A

Date 19/06/2023

Drawn By: EC

Checked By: AS

Scale 1:20,000



Coord. Sys. GDA2020 MGA Zone 56

**76-86 Broomfield Street  
 and 139, 147-151  
 Cabramatta Road East  
 Cabramatta NSW**

**SITE LOCATION**

**FIGURE 1**





**Legend**  
[Red line] Approximate Site Boundary  
[Yellow line] NSW Cadastre



Job No: 65196

Client: Moon Investments

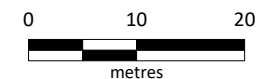
Version: R01 Rev A

Date 22/06/2023

Drawn By: EC

Checked By: AS

Scale 1:700



Coord. Sys. GDA2020 MGA Zone 56

**76-86 Broomfield Street  
and 139, 147-151  
Cabramatta Road East  
Cabramatta NSW**

**SITE LAYOUT**

**FIGURE 2**





- Legend**
- Approximate Site Boundary
  - Sample Locations (JBS&G, 2023)**
    - Borehole
    - ⊕ Monitoring Well
    - Soil Vapour



Job No: 65196

Client: Moon Investments

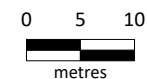
Version: R01 Rev A

Date 19/06/2023

Drawn By: EP

Checked By: AS

Scale 1:700



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and 139, 147-151  
Cabramatta Road East  
Cabramatta NSW**

**SAMPLE LOCATIONS**

**FIGURE 3**





- Legend**
- Approximate Site Boundary
  - Inferred Ground Water Flow
  - Standing Water Level (AHD)
  - Sample Locations (JBS&G, 2023)**
  - Borehole
  - ⊕ Monitoring Well
  - Soil Vapour



Job No: 65196

Client: Moon Investments

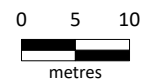
Version: R01 Rev A

Date 19/06/2023

Drawn By: EP

Checked By: AS

Scale 1:700



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Cabramatta NSW**

**GROUNDWATER ELEVATION**

**FIGURE 4**

## Tables





|  | Metals & Metalloids |         |                   |        |       |         |        |       | TPHs (NEPC 1999) |                  |                  |                  |                                 | TRHs (NEPC 2013) |         |         |         |                        |                        | BTEXN                         |         |         |              |            |                |              |                 |              |                |            |                   |                |                          |                                |                                |                        |       |
|-----------------------------------------------------------------------------------|---------------------|---------|-------------------|--------|-------|---------|--------|-------|------------------|------------------|------------------|------------------|---------------------------------|------------------|---------|---------|---------|------------------------|------------------------|-------------------------------|---------|---------|--------------|------------|----------------|--------------|-----------------|--------------|----------------|------------|-------------------|----------------|--------------------------|--------------------------------|--------------------------------|------------------------|-------|
|                                                                                   | Arsenic             | Cadmium | Chromium (III+VI) | Copper | Lead  | Mercury | Nickel | Zinc  | C6-C9 Fraction   | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum of Total) | C6-C10           | C10-C16 | C16-C34 | C34-C40 | C10-C40 (Sum of total) | F1 (C6-C10 minus BTEX) | F2 (C10-C16 less Naphthalene) | Benzene | Toluene | Ethylbenzene | Xylene (o) | Xylene (m & p) | Xylene Total | Naphthalene_VOC | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a)pyrene | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b-j)fluoranthene |       |
|                                                                                   | mg/kg               | mg/kg   | mg/kg             | mg/kg  | mg/kg | mg/kg   | mg/kg  | mg/kg | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg                           | mg/kg            | mg/kg   | mg/kg   | mg/kg   | mg/kg                  | mg/kg                  | mg/kg                         | mg/kg   | mg/kg   | mg/kg        | mg/kg      | mg/kg          | mg/kg        | mg/kg           | mg/kg        | mg/kg          | mg/kg      | mg/kg             | mg/kg          | mg/kg                    | mg/kg                          | mg/kg                          | mg/kg                  | mg/kg |
| EQL                                                                               | 2                   | 0.4     | 5                 | 5      | 5     | 0.1     | 5      | 5     | 20               | 20               | 50               | 50               | 50                              | 20               | 50      | 100     | 100     | 100                    | 20                     | 50                            | 0.1     | 0.1     | 0.1          | 0.1        | 0.2            | 0.3          | 0.5             | 0.5          | 0.5            | 0.5        | 0.5               | 0.5            | 0.5                      | 0.5                            | 0.5                            | 0.5                    | 0.5   |
| NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space     | 100                 |         | 190               | 60     | 1100  |         | 30     | 70    |                  |                  |                  |                  |                                 |                  |         |         |         |                        |                        |                               |         |         |              |            |                |              | 170             |              |                |            |                   |                |                          |                                |                                |                        |       |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil                               |                     |         |                   |        |       |         |        |       |                  |                  |                  |                  |                                 |                  |         | 1300    | 5600    |                        | 180                    | 120                           | 65      | 105     | 125          |            |                | 45           |                 |              |                |            | 0.7               |                |                          |                                |                                |                        |       |
| NEPM 2013 Table 1A(1) HILs Res A Soil                                             | 100                 | 20      | 100               | 6000   | 300   | 40      | 400    | 7400  |                  |                  |                  |                  |                                 |                  |         |         |         |                        |                        |                               |         |         |              |            |                |              |                 |              |                |            |                   |                | 3                        | 3                              | 3                              |                        |       |
| NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay                 |                     |         |                   |        |       |         |        |       |                  |                  |                  |                  |                                 |                  |         |         |         |                        | 50                     | 280                           | 0.7     | 480     | NL           |            |                | 110          | 5               |              |                |            |                   |                |                          |                                |                                |                        |       |
| NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil                             |                     |         |                   |        |       |         |        |       |                  |                  |                  |                  |                                 |                  |         |         |         |                        |                        |                               |         |         |              |            |                |              |                 |              |                |            |                   |                |                          |                                |                                |                        |       |
| PFAS NEMP 2020 Table 2 Health Residential min soil access                         |                     |         |                   |        |       |         |        |       |                  |                  |                  |                  |                                 |                  |         |         |         |                        |                        |                               |         |         |              |            |                |              |                 |              |                |            |                   |                |                          |                                |                                |                        |       |

| Sample ID    | Lab Report Number | Date       |     |      |    |     |     |      |     |     |     |     |      |     |     |     |     |      |      |      |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|-------------------|------------|-----|------|----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|------|------|------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| BH01_0.3_0.4 | 995556            | 29/05/2023 | 12  | <0.4 | 24 | 24  | 87  | 0.1  | 7   | 140 | <20 | <20 | <50  | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2  | 0.6  | <0.5 | <0.5 |      |      |      |
| QA01         | 324505            | 29/05/2023 | 12  | <0.4 | 27 | 28  | 74  | <0.1 | 6   | 110 | <25 | <50 | <100 | 140 | 140 | <25 | <50 | 170  | <100 | 170  | <25 | <50 | <0.2 | <0.5 | <1   | <1   | <2   | <1   | <1   | <0.1 | <0.1 | <0.1 | 0.1  | 0.08 | <0.5 | <0.5 | <0.5 | -    |      |      |
| QC01         | 995556            | 29/05/2023 | 14  | <0.4 | 35 | 23  | 73  | <0.1 | 5.7 | 100 | <20 | <20 | <50  | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2  | 0.6  | <0.5 | <0.5 |      |
| BH02_0.3_0.4 | 995556            | 29/05/2023 | 14  | <0.4 | 30 | 6.8 | 27  | <0.1 | <5  | 26  | <20 | <20 | <50  | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2  | 0.6  | <0.5 | <0.5 |      |
| BH03_0.3_0.4 | 995556            | 29/05/2023 | 15  | <0.4 | 32 | 11  | 30  | <0.1 | <5  | 29  | <20 | <20 | <50  | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2  | 0.6  | <0.5 | <0.5 |      |
| BH04_0.3_0.4 | 995556            | 29/05/2023 | -   | -    | -  | -   | -   | -    | -   | -   | -   | -   | -    | -   | -   | -   | -   | -    | -    | -    | -   | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |      |      |
| BH04_1_1.1   | 995556            | 29/05/2023 | 15  | <0.4 | 36 | 15  | 18  | <0.1 | <5  | 9   | <20 | <20 | <50  | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2  | 0.6  | <0.5 | <0.5 |      |
| BH05_0.3_0.4 | 995556            | 30/05/2023 | -   | -    | -  | -   | -   | -    | -   | -   | -   | -   | -    | -   | -   | -   | -   | -    | -    | -    | -   | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |      |      |
| BH05_0.5_0.6 | 995556            | 30/05/2023 | 12  | <0.4 | 30 | 19  | 22  | <0.1 | 5.9 | 6.5 | <20 | <20 | <50  | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2  | 0.6  | <0.5 | <0.5 |
| BH06_0.3_0.4 | 995556            | 29/05/2023 | 19  | 0.4  | 47 | 49  | 140 | 0.1  | 17  | 240 | <20 | <20 | 52   | 52  | 104 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2  | 0.6  | <0.5 | <0.5 |
| BH07_0.3_0.4 | 995556            | 29/05/2023 | 7.8 | <0.4 | 19 | 20  | 63  | 0.1  | 5.6 | 78  | <20 | <20 | <50  | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2  | 0.6  | <0.5 | <0.5 |
| MW01_0.3_0.4 | 995556            | 29/05/2023 | 15  | <0.4 | 33 | 17  | 40  | <0.1 | <5  | 34  | -   | -   | -    | -   | -   | -   | -   | -    | -    | -    | -   | -   | -    | -    | -    | -    | -    | -    | -    | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2  | 0.6  | <0.5 | <0.5 |      |
| MW02_0.3_0.4 | 995556            | 29/05/2023 | 13  | <0.4 | 65 | 45  | 420 | 0.1  | 17  | 230 | <20 | <20 | 66   | 51  | 117 | <20 | <50 | 100  | <100 | 100  | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2  | 0.6  | <0.5 | <0.5 |      |
| MW03_0.2_0.3 | 995556            | 29/05/2023 | -   | -    | -  | -   | -   | -    | -   | -   | -   | -   | -    | -   | -   | -   | -   | -    | -    | -    | -   | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |      |      |
| MW03_1_1.1   | 995556            | 29/05/2023 | 27  | <0.4 | 49 | <5  | 19  | <0.1 | <5  | <5  | <20 | <20 | <50  | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2  | 0.6  | <0.5 | <0.5 |      |
| MW03_7_7.1   | 995556            | 29/05/2023 | -   | -    | -  | -   | -   | -    | -   | -   | <20 | <20 | <50  | <50 | <50 | <20 | <50 | <100 | <100 | <100 | <20 | <50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.3 | <0.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |      |

Project Number: 65196  
Project Name: Cabramtta East Precinct Development DSI

[illegible]





|                                                                               | Chlorinated Alkanes       |                       |                           |                       |                    |                        |                             |                    |                     |                     |                     |                    |                      |              |               |                         |                 |                        | Chlorinated Alkenes |                     |                 |                 |                 |                        |                         |                   |                          |                           | Solvents        | Polychlorinated |         |               |               |               |               |     |
|-------------------------------------------------------------------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|------------------------|-----------------------------|--------------------|---------------------|---------------------|---------------------|--------------------|----------------------|--------------|---------------|-------------------------|-----------------|------------------------|---------------------|---------------------|-----------------|-----------------|-----------------|------------------------|-------------------------|-------------------|--------------------------|---------------------------|-----------------|-----------------|---------|---------------|---------------|---------------|---------------|-----|
|                                                                               | 1,1,1,2-tetrachloroethane | 1,1,1-trichloroethane | 1,1,2,2-tetrachloroethane | 1,1,2-trichloroethane | 1,1-dichloroethane | 1,2,3-trichloropropane | 1,2-dibromo-3-chloropropane | 1,2-dichloroethane | 1,2-dichloropropane | 1,3-dichloropropane | 2,2-dichloropropane | Bromochloromethane | Carbon tetrachloride | Chloroethane | Chloromethane | Dichlorodifluoromethane | Dichloromethane | Trichlorofluoromethane | 1,1-dichloroethene  | 1,1-dichloropropene | 2-chlorotoluene | 3-chloropropene | 4-chlorotoluene | cis-1,2-dichloroethene | cis-1,3-dichloropropene | Tetrachloroethene | trans-1,2-dichloroethene | trans-1,3-dichloropropene | Trichloroethene | Vinyl Chloride  | Acetone | Arochlor 1016 | Arochlor 1221 | Arochlor 1232 | Arochlor 1242 |     |
|                                                                               | mg/kg                     | mg/kg                 | mg/kg                     | mg/kg                 | mg/kg              | mg/kg                  | mg/kg                       | mg/kg              | mg/kg               | mg/kg               | mg/kg               | mg/kg              | mg/kg                | mg/kg        | mg/kg         | mg/kg                   | mg/kg           | mg/kg                  | mg/kg               | mg/kg               | mg/kg           | mg/kg           | mg/kg           | mg/kg                  | mg/kg                   | mg/kg             | mg/kg                    | mg/kg                     | mg/kg           | mg/kg           | mg/kg   | mg/kg         | mg/kg         | mg/kg         | mg/kg         |     |
| EQL                                                                           | 0.5                       | 0.5                   | 0.5                       | 0.5                   | 0.5                | 0.5                    | 1                           | 0.5                | 0.5                 | 0.5                 | 1                   | 0.5                | 0.5                  | 0.5          | 0.5           | 0.5                     | 0.5             | 0.5                    | 0.5                 | 1                   | 1               | 0.5             | 0.5             | 0.5                    | 0.5                     | 0.5               | 0.5                      | 0.5                       | 0.5             | 0.5             | 0.5     | 0.5           | 0.1           | 0.1           | 0.1           | 0.1 |
| NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space |                           |                       |                           |                       |                    |                        |                             |                    |                     |                     |                     |                    |                      |              |               |                         |                 |                        |                     |                     |                 |                 |                 |                        |                         |                   |                          |                           |                 |                 |         |               |               |               |               |     |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil                           |                           |                       |                           |                       |                    |                        |                             |                    |                     |                     |                     |                    |                      |              |               |                         |                 |                        |                     |                     |                 |                 |                 |                        |                         |                   |                          |                           |                 |                 |         |               |               |               |               |     |
| NEPM 2013 Table 1A(1) HILs Res A Soil                                         |                           |                       |                           |                       |                    |                        |                             |                    |                     |                     |                     |                    |                      |              |               |                         |                 |                        |                     |                     |                 |                 |                 |                        |                         |                   |                          |                           |                 |                 |         |               |               |               |               |     |
| NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay             |                           |                       |                           |                       |                    |                        |                             |                    |                     |                     |                     |                    |                      |              |               |                         |                 |                        |                     |                     |                 |                 |                 |                        |                         |                   |                          |                           |                 |                 |         |               |               |               |               |     |
| NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil                         |                           |                       |                           |                       |                    |                        |                             |                    |                     |                     |                     |                    |                      |              |               |                         |                 |                        |                     |                     |                 |                 |                 |                        |                         |                   |                          |                           |                 |                 |         |               |               |               |               |     |
| PFAS NEMP 2020 Table 2 Health Residential min soil access                     |                           |                       |                           |                       |                    |                        |                             |                    |                     |                     |                     |                    |                      |              |               |                         |                 |                        |                     |                     |                 |                 |                 |                        |                         |                   |                          |                           |                 |                 |         |               |               |               |               |     |

| Sample ID | Lab Report Number | Date |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|-----------|-------------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Project Name: Cabramatta East Precinct Development DS





|                                                                               | Aroclors      |               |               |                     | Polychlorinated Biphenyls (PCBs) |                                 |                                |                                 |                               |                               |                               |                                   | Perfluorinated Compounds (PFCs)   |                                     |                                      |                                    |                                                |                                               |                                                      |                                                    |                                                           |                                                          |                                       |                                     |                                       |                                      |                                        |                                     | PFAS                               |                                                     |       |  |  |  |  |
|-------------------------------------------------------------------------------|---------------|---------------|---------------|---------------------|----------------------------------|---------------------------------|--------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|------------------------------------|------------------------------------------------|-----------------------------------------------|------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|--------------------------------------|----------------------------------------|-------------------------------------|------------------------------------|-----------------------------------------------------|-------|--|--|--|--|
|                                                                               | Arochlor 1248 | Arochlor 1254 | Arochlor 1260 | PCBs (Sum of total) | Perfluorobutanoic acid (PFBA)    | Perfluoropentanoic acid (PFPeA) | Perfluorohexanoic acid (PFHxA) | Perfluoroheptanoic acid (PFHpA) | Perfluorooctanoic acid (PFOA) | Perfluorononanoic acid (PFNA) | Perfluorodecanoic acid (PFDA) | Perfluoroundecanoic acid (PFUnDA) | Perfluorododecanoic acid (PFDoDA) | Perfluorotridecanoic acid (PFTriDA) | Perfluorotetradecanoic acid (PFTeDA) | Perfluorooctane sulfonamide (FOSA) | N-Methyl perfluorooctane sulfonamide (NMeFOSA) | N-Ethyl perfluorooctane sulfonamide (NEtFOSA) | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE) | N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA) | N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA) | Perfluoropropanesulfonic acid (PFPrS) | Perfluorobutanesulfonic acid (PFBS) | Perfluoropentanesulfonic acid (PFPeS) | Perfluorohexanesulfonic acid (PFHxS) | Perfluoroheptane sulfonic acid (PFHpS) | Perfluorooctanesulfonic acid (PFOS) | Perfluorodecansulfonic acid (PFDS) | 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTSA) |       |  |  |  |  |
|                                                                               | mg/kg         | mg/kg         | mg/kg         | mg/kg               | mg/kg                            | mg/kg                           | mg/kg                          | mg/kg                           | mg/kg                         | mg/kg                         | mg/kg                         | mg/kg                             | mg/kg                             | mg/kg                               | mg/kg                                | mg/kg                              | mg/kg                                          | mg/kg                                         | mg/kg                                                | mg/kg                                              | mg/kg                                                     | mg/kg                                                    | mg/kg                                 | mg/kg                               | mg/kg                                 | mg/kg                                | mg/kg                                  | mg/kg                               | mg/kg                              | mg/kg                                               | mg/kg |  |  |  |  |
| EQL                                                                           | 0.1           | 0.1           | 0.1           | 0.1                 | 0.005                            | 0.005                           | 0.005                          | 0.005                           | 0.005                         | 0.005                         | 0.005                         | 0.005                             | 0.005                             | 0.005                               | 0.005                                | 0.005                              | 0.005                                          | 0.005                                         | 0.005                                                | 0.005                                              | 0.01                                                      | 0.01                                                     | 0.005                                 | 0.005                               | 0.005                                 | 0.005                                | 0.005                                  | 0.005                               | 0.005                              | 0.005                                               | 0.005 |  |  |  |  |
| NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space |               |               |               |                     |                                  |                                 |                                |                                 |                               |                               |                               |                                   |                                   |                                     |                                      |                                    |                                                |                                               |                                                      |                                                    |                                                           |                                                          |                                       |                                     |                                       |                                      |                                        |                                     |                                    |                                                     |       |  |  |  |  |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil                           |               |               |               |                     |                                  |                                 |                                |                                 |                               |                               |                               |                                   |                                   |                                     |                                      |                                    |                                                |                                               |                                                      |                                                    |                                                           |                                                          |                                       |                                     |                                       |                                      |                                        |                                     |                                    |                                                     |       |  |  |  |  |
| NEPM 2013 Table 1A(1) HILs Res A Soil                                         |               |               |               | 1                   |                                  |                                 |                                |                                 |                               |                               |                               |                                   |                                   |                                     |                                      |                                    |                                                |                                               |                                                      |                                                    |                                                           |                                                          |                                       |                                     |                                       |                                      |                                        |                                     |                                    |                                                     |       |  |  |  |  |
| NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay             |               |               |               |                     |                                  |                                 |                                |                                 |                               |                               |                               |                                   |                                   |                                     |                                      |                                    |                                                |                                               |                                                      |                                                    |                                                           |                                                          |                                       |                                     |                                       |                                      |                                        |                                     |                                    |                                                     |       |  |  |  |  |
| NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil                         |               |               |               |                     |                                  |                                 |                                |                                 |                               |                               |                               |                                   |                                   |                                     |                                      |                                    |                                                |                                               |                                                      |                                                    |                                                           |                                                          |                                       |                                     |                                       |                                      |                                        |                                     |                                    |                                                     |       |  |  |  |  |
| PFAS NEMP 2020 Table 2 Health Residential min soil access                     |               |               |               |                     |                                  |                                 |                                |                                 | 20                            |                               |                               |                                   |                                   |                                     |                                      |                                    |                                                |                                               |                                                      |                                                    |                                                           |                                                          |                                       |                                     |                                       |                                      | 2                                      |                                     | 2                                  |                                                     |       |  |  |  |  |

[illegible]



|                                                                               |                                                     |                                                     |                                                        |                       |                                             |                                   |                             |             |                                  | MAH                    |                        |                |                 |                    |                  |         |                   |           |              | Miscellaneous Hydrocarbons |                   |              |             |                |             |                      |                     | Chlorinated Benzenes   |                        |                     |                     |                     |               |                   |  |
|-------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|-----------------------|---------------------------------------------|-----------------------------------|-----------------------------|-------------|----------------------------------|------------------------|------------------------|----------------|-----------------|--------------------|------------------|---------|-------------------|-----------|--------------|----------------------------|-------------------|--------------|-------------|----------------|-------------|----------------------|---------------------|------------------------|------------------------|---------------------|---------------------|---------------------|---------------|-------------------|--|
|                                                                               | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTSA) | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTSA) | 1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2 FTSA) | Sum of PFHxS and PFOS | Sum of enHealth PFAS (PFHxS + PFOS + PFOA)* | Sum of US EPA PFAS (PFOS + PFOA)* | Sum of WA DWER PFAS (n=10)* | Sum of PFAS | Perfluorononanesulfonic acid ion | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | n-butylbenzene | n-propylbenzene | p-isopropyltoluene | sec-butylbenzene | Styrene | tert-butylbenzene | Total MAH | Bromobenzene | Isopropylbenzene           | 1,2-dibromoethane | Bromomethane | Cyclohexane | Dibromomethane | Iodomethane | 4-Methyl-2-pentanone | Methyl Ethyl Ketone | 1,2,3-trichlorobenzene | 1,2,4-trichlorobenzene | 1,2-Dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | Chlorobenzene | Hexachlorobenzene |  |
|                                                                               | mg/kg                                               | mg/kg                                               | mg/kg                                                  | mg/kg                 | mg/kg                                       | mg/kg                             | mg/KG                       | mg/kg       | mg/kg                            | mg/kg                  | mg/kg                  | mg/kg          | mg/kg           | mg/kg              | mg/kg            | mg/kg   | mg/kg             | mg/kg     | mg/kg        | mg/kg                      | mg/kg             | mg/kg        | mg/kg       | mg/kg          | mg/kg       | mg/kg                | mg/kg               | mg/kg                  | mg/kg                  | mg/kg               | mg/kg               | mg/kg               | mg/kg         | mg/kg             |  |
| EQL                                                                           | 0.01                                                | 0.005                                               | 0.005                                                  | 0.005                 | 0.005                                       | 0.005                             | 0.01                        | 0.05        | 0.005                            | 0.5                    | 0.5                    | 1              | 1               | 1                  | 1                | 0.5     | 1                 | 0.5       | 0.5          | 0.5                        | 0.5               | 0.5          | 1           | 0.5            | 0.5         | 0.5                  | 0.5                 | 0.5                    | 1                      | 1                   | 0.5                 | 0.5                 | 0.5           | 0.5               |  |
| NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space |                                                     |                                                     |                                                        |                       |                                             |                                   |                             |             |                                  |                        |                        |                |                 |                    |                  |         |                   |           |              |                            |                   |              |             |                |             |                      |                     |                        |                        |                     |                     |                     |               |                   |  |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil                           |                                                     |                                                     |                                                        |                       |                                             |                                   |                             |             |                                  |                        |                        |                |                 |                    |                  |         |                   |           |              |                            |                   |              |             |                |             |                      |                     |                        |                        |                     |                     |                     |               |                   |  |
| NEPM 2013 Table 1A(1) HILs Res A Soil                                         |                                                     |                                                     |                                                        |                       |                                             |                                   |                             |             |                                  |                        |                        |                |                 |                    |                  |         |                   |           |              |                            |                   |              |             |                |             |                      |                     |                        |                        |                     |                     |                     |               | 10                |  |
| NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay             |                                                     |                                                     |                                                        |                       |                                             |                                   |                             |             |                                  |                        |                        |                |                 |                    |                  |         |                   |           |              |                            |                   |              |             |                |             |                      |                     |                        |                        |                     |                     |                     |               |                   |  |
| NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil                         |                                                     |                                                     |                                                        |                       |                                             |                                   |                             |             |                                  |                        |                        |                |                 |                    |                  |         |                   |           |              |                            |                   |              |             |                |             |                      |                     |                        |                        |                     |                     |                     |               |                   |  |
| PFAS NEMP 2020 Table 2 Health Residential min soil access                     |                                                     |                                                     |                                                        | 2                     |                                             |                                   |                             |             |                                  |                        |                        |                |                 |                    |                  |         |                   |           |              |                            |                   |              |             |                |             |                      |                     |                        |                        |                     |                     |                     |               |                   |  |

| Sample ID    | Lab Report Number | Date       |         |         |         |        |        |        |       |        |        |      |      |    |    |    |    |      |    |      |      |      |      |      |   |      |      |      |      |      |    |    |      |      |      |       |      |
|--------------|-------------------|------------|---------|---------|---------|--------|--------|--------|-------|--------|--------|------|------|----|----|----|----|------|----|------|------|------|------|------|---|------|------|------|------|------|----|----|------|------|------|-------|------|
| BH01_0.3_0.4 | 995556            | 29/05/2023 | <0.01   | <0.005  | <0.005  | <0.005 | <0.005 | <0.005 | <0.01 | <0.05  | <0.005 | <0.5 | <0.5 | -  | -  | -  | -  | <0.5 | -  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -  | -  | <0.5 | <0.5 | <0.5 | <0.5  | <0.5 |
| QA01         | 324505            | 29/05/2023 | <0.0001 | <0.0002 | <0.0002 | 0.0007 | -      | 0.0007 | -     | 0.0007 | -      | <1   | <1   | <1 | <1 | <1 | <1 | <1   | <1 | <1   | <1   | <1   | <1   | <1   | - | <1   | <1   | <1   | <1   | <1   | <1 | <1 | <1   | <1   | <1   | <1    |      |
| QC01         | 995556            | 29/05/2023 | <0.01   | <0.005  | <0.005  | <0.005 | <0.005 | <0.005 | <0.01 | <0.05  | <0.005 | <0.5 | <0.5 | -  | -  | -  | -  | <0.5 | -  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -  | -  | <0.5 | <0.5 | <0.5 | <0.5  | <0.5 |
| BH02_0.3_0.4 | 995556            | 29/05/2023 | -       | -       | -       | -      | -      | -      | -     | -      | -      | <0.5 | <0.5 | -  | -  | -  | -  | <0.5 | -  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -  | -  | <0.5 | <0.5 | <0.5 | <0.5  | -    |
| BH03_0.3_0.4 | 995556            | 29/05/2023 | -       | -       | -       | -      | -      | -      | -     | -      | -      | <0.5 | <0.5 | -  | -  | -  | -  | <0.5 | -  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -  | -  | <0.5 | <0.5 | <0.5 | <0.5  | <0.5 |
| BH04_0.3_0.4 | 995556            | 29/05/2023 | -       | -       | -       | -      | -      | -      | -     | -      | -      | -    | -    | -  | -  | -  | -  | -    | -  | -    | -    | -    | -    | -    | - | -    | -    | -    | -    | -    | -  | -  | -    | -    | -    | -     | -    |
| BH04_1_1.1   | 995556            | 29/05/2023 | -       | -       | -       | -      | -      | -      | -     | -      | -      | <0.5 | <0.5 | -  | -  | -  | -  | <0.5 | -  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -  | -  | <0.5 | <0.5 | <0.5 | <0.5  | -    |
| BH05_0.3_0.4 | 995556            | 30/05/2023 | <0.01   | <0.005  | <0.005  | <0.005 | <0.005 | <0.005 | <0.01 | <0.05  | <0.005 | -    | -    | -  | -  | -  | -  | -    | -  | -    | -    | -    | -    | -    | - | -    | -    | -    | -    | -    | -  | -  | -    | -    | -    | -     |      |
| BH05_0.5_0.6 | 995556            | 30/05/2023 | -       | -       | -       | -      | -      | -      | -     | -      | -      | <0.5 | <0.5 | -  | -  | -  | -  | <0.5 | -  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -  | -  | <0.5 | <0.5 | <0.5 | <0.5  | -    |
| BH06_0.3_0.4 | 995556            | 29/05/2023 | -       | -       | -       | -      | -      | -      | -     | -      | -      | <0.5 | <0.5 | -  | -  | -  | -  | <0.5 | -  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -  | -  | <0.5 | <0.5 | <0.5 | <0.5  | <0.5 |
| BH07_0.3_0.4 | 995556            | 29/05/2023 | -       | -       | -       | -      | -      | -      | -     | -      | -      | <0.5 | <0.5 | -  | -  | -  | -  | <0.5 | -  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -  | -  | <0.5 | <0.5 | <0.5 | <0.5  | <0.5 |
| MW01_0.3_0.4 | 995556            | 29/05/2023 | <0.01   | <0.005  | <0.005  | <0.005 | <0.005 | <0.005 | <0.01 | <0.05  | <0.005 | -    | -    | -  | -  | -  | -  | -    | -  | -    | -    | -    | -    | -    | - | -    | -    | -    | -    | -    | -  | -  | -    | -    | -    | <0.05 |      |
| MW02_0.3_0.4 | 995556            | 29/05/2023 | -       | -       | -       | -      | -      | -      | -     | -      | -      | <0.5 | <0.5 | -  | -  | -  | -  | <0.5 | -  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -  | -  | <0.5 | <0.5 | <0.5 | <0.5  | -    |
| MW03_0.2_0.3 | 995556            | 29/05/2023 | -       | -       | -       | -      | -      | -      | -     | -      | -      | -    | -    | -  | -  | -  | -  | -    | -  | -    | -    | -    | -    | -    | - | -    | -    | -    | -    | -    | -  | -  | -    | -    | -    | -     |      |
| MW03_1_1.1   | 995556            | 29/05/2023 | <0.01   | <0.005  | <0.005  | <0.005 | <0.005 | <0.005 | <0.01 | <0.05  | <0.005 | <0.5 | <0.5 | -  | -  | -  | -  | <0.5 | -  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -  | -  | <0.5 | <0.5 | <0.5 | <0.5  | <0.5 |
| MW03_7_7.1   | 995556            | 29/05/2023 | -       | -       | -       | -      | -      | -      | -     | -      | -      | <0.5 | <0.5 | -  | -  | -  | -  | <0.5 | -  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -  | -  | <0.5 | <0.5 | <0.5 | <0.5  | -    |





|                                                                               | Trihalomethanes      |            |                 |                      | Organic Sulfur Compounds | Asbestos - Eurofins     |                           |                               |                          |                             |                            |                          |
|-------------------------------------------------------------------------------|----------------------|------------|-----------------|----------------------|--------------------------|-------------------------|---------------------------|-------------------------------|--------------------------|-----------------------------|----------------------------|--------------------------|
|                                                                               | Dibromochloromethane | Chloroform | Tribromomethane | Bromodichloromethane | Carbon disulfide         | Approximate Sample Mass | Asbestos from ACM in Soil | Asbestos from FA & AF in Soil | Organic Fibres - Comment | Respirable Fibres - Comment | Synthetic Fibres - Comment | Asbestos Reported Result |
|                                                                               | mg/kg                | mg/kg      | mg/kg           | mg/kg                | mg/kg                    | g                       | % (w/w)                   | % (w/w)                       | Comment                  | Comment                     | Comment                    | Comment                  |
| EQL                                                                           | 0.5                  | 0.5        | 0.5             | 0.5                  | 0.5                      |                         |                           |                               |                          |                             |                            |                          |
| NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space |                      |            |                 |                      |                          |                         |                           |                               |                          |                             |                            |                          |
| NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil                           |                      |            |                 |                      |                          |                         |                           |                               |                          |                             |                            |                          |
| NEPM 2013 Table 1A(1) HILs Res A Soil                                         |                      |            |                 |                      |                          |                         |                           |                               |                          |                             |                            |                          |
| NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay             |                      |            |                 |                      |                          |                         |                           |                               |                          |                             |                            |                          |
| NEPM 2013 Table 7 Res A Soil HSL for Asbestos in Soil                         |                      |            |                 |                      |                          |                         | 0.01                      | 0.001                         |                          |                             |                            |                          |
| PFAS NEMP 2020 Table 2 Health Residential min soil access                     |                      |            |                 |                      |                          |                         |                           |                               |                          |                             |                            |                          |

| Sample ID    | Lab Report Number | Date       |      |      |      |      |      |      |       |        |                         |                            |     |                      |
|--------------|-------------------|------------|------|------|------|------|------|------|-------|--------|-------------------------|----------------------------|-----|----------------------|
| BH01_0.3_0.4 | 995556            | 29/05/2023 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1154 | 0     | 0      | Organic Fibres Detected | No Trace Asbestos Detected | Nil | No Asbestos Detected |
| QA01         | 324505            | 29/05/2023 | <1   | <1   | <1   | <1   | -    | -    | <0.01 | <0.001 | -                       | -                          | -   | -                    |
| QC01         | 995556            | 29/05/2023 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1004 | 0     | 0      | Organic Fibres Detected | No Trace Asbestos Detected | Nil | No Asbestos Detected |
| BH02_0.3_0.4 | 995556            | 29/05/2023 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1034 | 0     | 0      | Organic Fibres Detected | No Trace Asbestos Detected | Nil | No Asbestos Detected |
| BH03_0.3_0.4 | 995556            | 29/05/2023 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1186 | 0     | 0      | Organic Fibres Detected | No Trace Asbestos Detected | Nil | No Asbestos Detected |
| BH04_0.3_0.4 | 995556            | 29/05/2023 | -    | -    | -    | -    | -    | 1029 | 0     | 0      | Organic Fibres Detected | No Trace Asbestos Detected | Nil | No Asbestos Detected |
| BH04_1_1.1   | 995556            | 29/05/2023 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -    | -     | -      | -                       | -                          | -   | -                    |
| BH05_0.3_0.4 | 995556            | 30/05/2023 | -    | -    | -    | -    | -    | 1084 | 0     | 0      | Organic Fibres Detected | No Trace Asbestos Detected | Nil | No Asbestos Detected |
| BH05_0.5_0.6 | 995556            | 30/05/2023 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -    | -     | -      | -                       | -                          | -   | -                    |
| BH06_0.3_0.4 | 995556            | 29/05/2023 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 911  | 0     | 0      | Organic Fibres Detected | No Trace Asbestos Detected | Nil | No Asbestos Detected |
| BH07_0.3_0.4 | 995556            | 29/05/2023 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 916  | 0     | 0      | Organic Fibres Detected | No Trace Asbestos Detected | Nil | No Asbestos Detected |
| MW01_0.3_0.4 | 995556            | 29/05/2023 | -    | -    | -    | -    | -    | 719  | 0     | 0      | Organic Fibres Detected | No Trace Asbestos Detected | Nil | No Asbestos Detected |
| MW02_0.3_0.4 | 995556            | 29/05/2023 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1004 | 0     | 0      | Organic Fibres Detected | No Trace Asbestos Detected | Nil | No Asbestos Detected |
| MW03_0.2_0.3 | 995556            | 29/05/2023 | -    | -    | -    | -    | -    | 1244 | 0     | 0      | Organic Fibres Detected | No Trace Asbestos Detected | Nil | No Asbestos Detected |
| MW03_1_1.1   | 995556            | 29/05/2023 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -    | -     | -      | -                       | -                          | -   | -                    |
| MW03_7_7.1   | 995556            | 29/05/2023 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -    | -     | -      | -                       | -                          | -   | -                    |



|                                                                               | Heavy Metals       |                    |                              |                   |                 |                    |                   |                 | TPHs (NEPC 1999) |                  |                  |                  |                                 | TRHs (NEPC 2013) |         |         |         |                        |                        |                               |         | BTEXN   |              |            |                |              |                 |              |                |            |                   |                |
|-------------------------------------------------------------------------------|--------------------|--------------------|------------------------------|-------------------|-----------------|--------------------|-------------------|-----------------|------------------|------------------|------------------|------------------|---------------------------------|------------------|---------|---------|---------|------------------------|------------------------|-------------------------------|---------|---------|--------------|------------|----------------|--------------|-----------------|--------------|----------------|------------|-------------------|----------------|
|                                                                               | Arsenic (Filtered) | Cadmium (Filtered) | Chromium (III+VI) (Filtered) | Copper (Filtered) | Lead (Filtered) | Mercury (Filtered) | Nickel (Filtered) | Zinc (Filtered) | C6-C9 Fraction   | C10-C14 Fraction | C15-C28 Fraction | C29-C36 Fraction | C10-C36 Fraction (Sum of Total) | C6-C10           | C10-C16 | C16-C34 | C34-C40 | C10-C40 (Sum of total) | F1 (C6-C10 minus BTEX) | F2 (C10-C16 less Naphthalene) | Benzene | Toluene | Ethylbenzene | Xylene (o) | Xylene (m & p) | Xylene Total | Naphthalene_VOC | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a)pyrene |
|                                                                               | mg/L               | mg/L               | mg/L                         | mg/L              | mg/L            | mg/L               | mg/L              | mg/L            | mg/L             | mg/L             | mg/L             | mg/L             | mg/L                            | mg/L             | mg/L    | mg/L    | mg/L    | mg/L                   | mg/L                   | mg/L                          | mg/L    | mg/L    | mg/L         | mg/L       | mg/L           | mg/L         | mg/L            | mg/L         | mg/L           | mg/L       | mg/L              | mg/L           |
| EQL                                                                           | 0.001              | 0.0002             | 0.001                        | 0.001             | 0.001           | 0.0001             | 0.001             | 0.005           | 0.02             | 0.05             | 0.1              | 0.1              | 0.1                             | 0.02             | 0.05    | 0.1     | 0.1     | 0.1                    | 0.02                   | 0.05                          | 0.001   | 0.001   | 0.001        | 0.001      | 0.002          | 0.003        | 0.01            | 0.001        | 0.001          | 0.001      | 0.001             | 0.001          |
| NHMRC (2008) Recreational as 10x the drinking water criteria (2011 )          | 0.1                | 0.02               | 0.5                          | 20                | 0.1             | 0.01               | 0.2               |                 |                  |                  |                  |                  |                                 |                  |         |         |         |                        |                        |                               | 0.01    | 8       | 3            | 6          | 6              | 6            |                 |              |                |            |                   | 0.0001         |
| ANZG (2018) Marine water 95% toxicant DGVs                                    |                    | 0.0055             | 0.0044                       | 0.0013            | 0.0044          | 0.0004             | 0.07              | 0.008           |                  |                  |                  |                  |                                 |                  |         |         |         |                        |                        |                               | 0.7     | 0.18    | 0.08         |            | 0.075          |              | 0.07            |              |                | 0.0004     |                   | 0.0002         |
| CRC Care 2011 Table A2 Vapour Intrusion HSL-A Residential (Low Density), Clay |                    |                    |                              |                   |                 |                    |                   |                 |                  |                  |                  |                  |                                 | NL               | NL      |         |         |                        |                        |                               | 4.6     | NL      | NL           |            |                | NL           | NL              |              |                |            |                   |                |
| NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Clay               |                    |                    |                              |                   |                 |                    |                   |                 |                  |                  |                  |                  |                                 |                  |         |         |         |                        | NL                     | NL                            | NL      | NL      |              |            | NL             | NL           |                 |              |                |            |                   |                |
| PFAS NEMP 2020 Table 5 Interim marine 95%                                     |                    |                    |                              |                   |                 |                    |                   |                 |                  |                  |                  |                  |                                 |                  |         |         |         |                        |                        |                               |         |         |              |            |                |              |                 |              |                |            |                   |                |

| Sample ID | Lab Report Number | Date      | <0.001 | 0.0007 | <0.001 | 0.002 | <0.001 | <0.0001  | 0.085 | 0.21  | <0.02 | <0.05 | <0.1 | <0.1 | <0.1  | <0.02 | <0.05 | <0.1 | <0.1 | <0.1  | <0.02 | <0.05 | <0.001 | <0.001 | <0.001 | <0.001 | <0.002 | <0.003 | <0.01 | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
|-----------|-------------------|-----------|--------|--------|--------|-------|--------|----------|-------|-------|-------|-------|------|------|-------|-------|-------|------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------|---------|---------|---------|---------|---------|
| MW01      | 996556/999571     | 5/06/2023 | <0.001 | 0.0007 | <0.001 | 0.002 | <0.001 | <0.0001  | 0.085 | 0.21  | <0.02 | <0.05 | <0.1 | <0.1 | <0.1  | <0.02 | <0.05 | <0.1 | <0.1 | <0.1  | <0.02 | <0.05 | <0.001 | <0.001 | <0.001 | <0.001 | <0.002 | <0.003 | <0.01 | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| MW02      | 996556/999571     | 5/06/2023 | 0.002  | 0.0026 | <0.001 | 0.001 | <0.001 | <0.0001  | 0.26  | 0.33  | <0.02 | <0.05 | <0.1 | <0.1 | <0.1  | <0.02 | <0.05 | <0.1 | <0.1 | <0.1  | <0.02 | <0.05 | <0.001 | <0.001 | <0.001 | <0.001 | <0.002 | <0.003 | <0.01 | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| MW03      | 996556/999571     | 5/06/2023 | 0.002  | 0.0002 | <0.001 | 0.001 | <0.001 | <0.0001  | 0.036 | 0.097 | <0.02 | <0.05 | <0.1 | <0.1 | <0.1  | <0.02 | <0.05 | <0.1 | <0.1 | <0.1  | <0.02 | <0.05 | <0.001 | <0.001 | <0.001 | <0.001 | <0.002 | <0.003 | <0.01 | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| QA01      | 324973            | 5/06/2023 | 0.003  | 0.0003 | 0.002  | 0.002 | <0.001 | <0.00005 | 0.037 | 0.11  | <0.01 | <0.05 | <0.1 | <0.1 | <0.05 | <0.01 | <0.05 | <0.1 | <0.1 | <0.05 | -     | -     | <0.001 | <0.001 | <0.001 | <0.001 | <0.002 | -      | -     | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| QC01      | 996556/999571     | 5/06/2023 | 0.003  | 0.0002 | <0.001 | 0.001 | <0.001 | <0.0001  | 0.042 | 0.1   | <0.02 | <0.05 | <0.1 | <0.1 | <0.1  | <0.02 | <0.05 | <0.1 | <0.1 | <0.1  | <0.02 | <0.05 | <0.001 | <0.001 | <0.001 | <0.001 | <0.002 | <0.003 | <0.01 | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |







| PAH                                                                           |                    |                        |                          |                      |                      |          |                       |              |          |                         |             |              |        |                     |                           | Chlorinated Alkanes   |                           |                       |                    |                        |                             |                    |                     |                     |                     |                    |                      |              |               |  |  |
|-------------------------------------------------------------------------------|--------------------|------------------------|--------------------------|----------------------|----------------------|----------|-----------------------|--------------|----------|-------------------------|-------------|--------------|--------|---------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|------------------------|-----------------------------|--------------------|---------------------|---------------------|---------------------|--------------------|----------------------|--------------|---------------|--|--|
|                                                                               | Benzo(a)pyrene TEQ | Benzo(b+j)fluoranthene | Benzo(b+j+k)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | Phenanthrene | Pyrene | PAHs (Sum of total) | 1,1,1,2-tetrachloroethane | 1,1,1-trichloroethane | 1,1,2,2-tetrachloroethane | 1,1,2-trichloroethane | 1,1-dichloroethane | 1,2,3-trichloropropane | 1,2-dibromo-3-chloropropane | 1,2-dichloroethane | 1,2-dichloropropane | 1,3-dichloropropane | 2,2-dichloropropane | Bromochloromethane | Carbon tetrachloride | Chloroethane | Chloromethane |  |  |
|                                                                               | mg/L               | mg/L                   | mg/L                     | mg/L                 | mg/L                 | mg/L     | mg/L                  | mg/L         | mg/L     | mg/L                    | mg/L        | mg/L         | mg/L   | mg/L                | mg/L                      | mg/L                  | mg/L                      | mg/L                  | mg/L               | mg/L                   | mg/L                        | mg/L               | mg/L                | mg/L                | mg/L                | mg/L               | mg/L                 | mg/L         | mg/L          |  |  |
| EQL                                                                           | 0.0005             | 0.001                  | 0.0002                   | 0.001                | 0.001                | 0.001    | 0.001                 | 0.001        | 0.001    | 0.001                   | 0.001       | 0.001        | 0.001  | 0.001               | 0.001                     | 0.001                 | 0.001                     | 0.001                 | 0.001              | 0.001                  | 0.001                       | 0.001              | 0.001               | 0.001               | 0.001               | 0.001              | 0.001                | 0.005        | 0.005         |  |  |
| NHMRC (2008) Recreational as 10x the drinking water criteria (2011 )          |                    |                        |                          |                      |                      |          |                       |              |          |                         |             |              |        |                     |                           |                       |                           |                       |                    |                        |                             | 0.03               |                     |                     |                     |                    | 0.03                 |              |               |  |  |
| ANZG (2018) Marine water 95% toxicant DGVs                                    |                    |                        |                          |                      |                      |          |                       | 0.0014       |          |                         | 0.07        | 0.002        |        |                     |                           | 0.27                  | 0.4                       | 1.9                   |                    |                        |                             | 1.9                | 0.9                 | 1.1                 |                     |                    | 0.24                 |              |               |  |  |
| CRC Care 2011 Table A2 Vapour Intrusion HSL-A Residential (Low Density), Clay |                    |                        |                          |                      |                      |          |                       |              |          |                         | NL          |              |        |                     |                           |                       |                           |                       |                    |                        |                             |                    |                     |                     |                     |                    |                      |              |               |  |  |
| NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Clay               |                    |                        |                          |                      |                      |          |                       |              |          |                         | NL          |              |        |                     |                           |                       |                           |                       |                    |                        |                             |                    |                     |                     |                     |                    |                      |              |               |  |  |
| PFAS NEMP 2020 Table 5 Interim marine 95%                                     |                    |                        |                          |                      |                      |          |                       |              |          |                         |             |              |        |                     |                           |                       |                           |                       |                    |                        |                             |                    |                     |                     |                     |                    |                      |              |               |  |  |

| Sample ID | Lab Report Number | Date      |         |        |         |         |        |         |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        |        |        |        |        |        |        |  |
|-----------|-------------------|-----------|---------|--------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| MW01      | 996556/999571     | 5/06/2023 | -       | <0.001 | -       | <0.001  | <0.001 | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | -      | <0.001 | <0.001 | <0.001 | -      | <0.001 | <0.001 | <0.005 | <0.005 |  |
| MW02      | 996556/999571     | 5/06/2023 | -       | <0.001 | -       | <0.001  | <0.001 | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | -      | <0.001 | <0.001 | <0.001 | -      | <0.001 | <0.001 | <0.005 | <0.005 |  |
| MW03      | 996556/999571     | 5/06/2023 | -       | <0.001 | -       | <0.001  | <0.001 | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | -      | <0.001 | <0.001 | <0.001 | -      | <0.001 | <0.001 | <0.005 | <0.005 |  |
| QA01      | 324973            | 5/06/2023 | <0.0005 | -      | <0.0002 | <0.0001 | -      | <0.0001 | <0.0001 | <0.0001 | <0.0002 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.01  | <0.01  |  |
| QC01      | 996556/999571     | 5/06/2023 | -       | <0.001 | -       | <0.001  | <0.001 | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | -      | <0.001 | <0.001 | <0.001 | -      | <0.001 | <0.001 | <0.005 | <0.005 |  |



|                                                                               | Chlorinated Alkenes     |                 |                        |                    |                     |                 |                 |                 |                        |                         |                   |                          |                           |                 |                | Solvents |                               |                                 |                                |                                 |                               |                               |                               |                                   |                                   |                                    |                                      |                                    |                                                |                                              |                                                      |                                                   |                                                           |       |
|-------------------------------------------------------------------------------|-------------------------|-----------------|------------------------|--------------------|---------------------|-----------------|-----------------|-----------------|------------------------|-------------------------|-------------------|--------------------------|---------------------------|-----------------|----------------|----------|-------------------------------|---------------------------------|--------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------|-----------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------------------|----------------------------------------------|------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------|-------|
|                                                                               | Dichlorodifluoromethane | Dichloromethane | Trichlorofluoromethane | 1,1-dichloroethene | 1,1-dichloropropene | 2-chlorotoluene | 3-chloropropene | 4-chlorotoluene | cis-1,2-dichloroethene | cis-1,3-dichloropropene | Tetrachloroethene | trans-1,2-dichloroethene | trans-1,3-dichloropropene | Trichloroethene | Vinyl Chloride | Acetone  | Perfluorobutanoic acid (PFBA) | Perfluoropentanoic acid (PFPeA) | Perfluorohexanoic acid (PFHxA) | Perfluoroheptanoic acid (PFHpA) | Perfluorooctanoic acid (PFOA) | Perfluorononanoic acid (PFNA) | Perfluorodecanoic acid (PFDA) | Perfluoroundecanoic acid (PFUnDA) | Perfluorododecanoic acid (PFDoDA) | Perfluorotridecanoic acid (PFTrDA) | Perfluorotetradecanoic acid (PFTeDA) | Perfluorooctane sulfonamide (FOSA) | N-Methyl perfluorooctane sulfonamide (NMeFOSA) | N-Ethyl perfluorooctane sulfonamide (NEFOSA) | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | N-ethylperfluorooctanesulfonamidoethanol (NEFOSE) | N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA) |       |
| EQL                                                                           | 0.005                   | 0.005           | 0.005                  | 0.001              | 0.001               | 0.001           | 0.001           | 0.001           | 0.001                  | 0.001                   | 0.001             | 0.001                    | 0.001                     | 0.001           | 0.005          | 0.005    | 0.05                          | 0.01                            | 0.01                           | 0.01                            | 0.01                          | 0.01                          | 0.01                          | 0.01                              | 0.01                              | 0.01                               | 0.01                                 | 0.01                               | 0.05                                           | 0.05                                         | 0.05                                                 | 0.05                                              | 0.05                                                      | 0.05  |
| NHMRC (2008) Recreational as 10x the drinking water criteria (2011 )          |                         | 0.04            |                        | 0.3                |                     |                 |                 |                 | 0.6                    |                         | 0.5               | 0.6                      |                           |                 | 0.003          | 140      |                               |                                 |                                |                                 | 5.6                           |                               |                               |                                   |                                   |                                    |                                      |                                    |                                                |                                              |                                                      |                                                   |                                                           |       |
| ANZG (2018) Marine water 95% toxicant DGVs                                    |                         | 4               |                        | 0.7                |                     |                 |                 |                 |                        |                         | 0.07              |                          |                           | 0.33            | 0.1            |          |                               |                                 |                                |                                 |                               |                               |                               |                                   |                                   |                                    |                                      |                                    |                                                |                                              |                                                      |                                                   |                                                           |       |
| CRC Care 2011 Table A2 Vapour Intrusion HSL-A Residential (Low Density), Clay |                         |                 |                        |                    |                     |                 |                 |                 |                        |                         |                   |                          |                           |                 |                |          |                               |                                 |                                |                                 |                               |                               |                               |                                   |                                   |                                    |                                      |                                    |                                                |                                              |                                                      |                                                   |                                                           |       |
| NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Clay               |                         |                 |                        |                    |                     |                 |                 |                 |                        |                         |                   |                          |                           |                 |                |          |                               |                                 |                                |                                 |                               |                               |                               |                                   |                                   |                                    |                                      |                                    |                                                |                                              |                                                      |                                                   |                                                           |       |
| PFAS NEMP 2020 Table 5 Interim marine 95%                                     |                         |                 |                        |                    |                     |                 |                 |                 |                        |                         |                   |                          |                           |                 |                |          |                               |                                 |                                |                                 | 220                           |                               |                               |                                   |                                   |                                    |                                      |                                    |                                                |                                              |                                                      |                                                   |                                                           |       |
| Sample ID                                                                     | Lab Report Number       | Date            |                        |                    |                     |                 |                 |                 |                        |                         |                   |                          |                           |                 |                |          |                               |                                 |                                |                                 |                               |                               |                               |                                   |                                   |                                    |                                      |                                    |                                                |                                              |                                                      |                                                   |                                                           |       |
| MW01                                                                          | 996556/999571           | 5/06/2023       | <0.005                 | <0.005             | <0.005              | <0.001          | -               | -               | <0.001                 | <0.001                  | <0.001            | <0.001                   | <0.001                    | <0.001          | <0.001         | <0.005   | <0.005                        | <0.05                           | <0.01                          | <0.01                           | <0.01                         | <0.01                         | <0.01                         | <0.01                             | <0.01                             | <0.01                              | <0.01                                | <0.01                              | <0.01                                          | <0.05                                        | <0.05                                                | <0.05                                             | <0.05                                                     | <0.05 |
| MW02                                                                          | 996556/999571           | 5/06/2023       | <0.005                 | <0.005             | <0.005              | <0.001          | -               | -               | <0.001                 | <0.001                  | <0.001            | <0.001                   | <0.001                    | <0.001          | <0.001         | <0.005   | <0.005                        | <0.05                           | <0.01                          | <0.01                           | <0.01                         | <0.01                         | <0.01                         | <0.01                             | <0.01                             | <0.01                              | <0.01                                | <0.01                              | <0.01                                          | <0.05                                        | <0.05                                                | <0.05                                             | <0.05                                                     | <0.05 |
| MW03                                                                          | 996556/999571           | 5/06/2023       | <0.005                 | <0.005             | <0.005              | <0.001          | -               | -               | <0.001                 | <0.001                  | <0.001            | <0.001                   | <0.001                    | <0.001          | <0.001         | <0.005   | <0.005                        | <0.05                           | <0.01                          | <0.01                           | <0.01                         | <0.01                         | <0.01                         | <0.01                             | <0.01                             | <0.01                              | <0.01                                | <0.01                              | <0.01                                          | <0.05                                        | <0.05                                                | <0.05                                             | <0.05                                                     | <0.05 |
| QA01                                                                          | 324973                  | 5/06/2023       | <0.01                  | -                  | <0.01               | <0.001          | <0.001          | <0.001          | <0.001                 | <0.001                  | <0.001            | <0.001                   | <0.001                    | <0.001          | <0.01          | -        | <0.02                         | <0.02                           | <0.01                          | <0.01                           | <0.01                         | <0.01                         | <0.02                         | <0.02                             | <0.05                             | <0.1                               | <0.5                                 | <0.1                               | <0.05                                          | <0.1                                         | <0.05                                                | <0.05                                             | <0.02                                                     |       |
| QC01                                                                          | 996556/999571           | 5/06/2023       | <0.005                 | <0.005             | <0.005              | <0.001          | -               | -               | <0.001                 | <0.001                  | <0.001            | <0.001                   | <0.001                    | <0.001          | <0.005         | <0.005   | <0.05                         | <0.01                           | <0.01                          | <0.01                           | <0.01                         | <0.01                         | <0.01                         | <0.01                             | <0.01                             | <0.01                              | <0.01                                | <0.01                              | <0.05                                          | <0.05                                        | <0.05                                                | <0.05                                             | <0.05                                                     |       |

Table B: Groundwater Analytical Data Summary  
Project Number: 65196  
Project Name: Cabramtta East Precinct Development DSI





| PFAS                                                                          |                                                          |                                       |                                     |                                       |                                      |                                        |                                     |                                     |                                                     |                                                     |                                                     |                                                        |                       |                                              |                                    |                              |             |                                  |       | MAH   |       |       |       |       |       |       |       |       |       | Miscellaneous Hyd |       |       |       |      |
|-------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|--------------------------------------|----------------------------------------|-------------------------------------|-------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|-----------------------|----------------------------------------------|------------------------------------|------------------------------|-------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|------|
|                                                                               | N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA) | Perfluoropropanesulfonic acid (PFPrS) | Perfluorobutanesulfonic acid (PFBS) | Perfluoropentanesulfonic acid (PFPeS) | Perfluorohexanesulfonic acid (PFHxS) | Perfluoroheptane sulfonic acid (PFHpS) | Perfluorooctanesulfonic acid (PFOs) | Perfluorodecanesulfonic acid (PFDS) | 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTSA) | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTSA) | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTSA) | 1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2 FTSA) | Sum of PFHxS and PFOs | Sum of enHealth PFAS (PFHxS + PFOS + PFOA) * | Sum of US EPA PFAS (PFOS + PFOA) * | Sum of WA DWER PFAS (n=10) * | Sum of PFAS | Perfluorononanesulfonic acid ion |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |      |
|                                                                               | µg/L                                                     | µg/L                                  | µg/L                                | µg/L                                  | µg/L                                 | µg/L                                   | µg/L                                | µg/L                                | µg/L                                                | µg/L                                                | µg/L                                                | µg/L                                                   | µg/L                  | µg/L                                         | UG/L                               | µg/L                         | µg/L        | µg/L                             | mg/L  | mg/L  | mg/L  | mg/L  | mg/L  | mg/L  | mg/L  | mg/L  | mg/L  | mg/L  | mg/L  | mg/L              | mg/L  | mg/L  | mg/L  | mg/L |
| EQL                                                                           | 0.05                                                     | 0.01                                  | 0.01                                | 0.01                                  | 0.01                                 | 0.01                                   | 0.01                                | 0.01                                | 0.01                                                | 0.05                                                | 0.01                                                | 0.01                                                   | 0.01                  | 0.01                                         | 0.01                               | 0.05                         | 0.1         | 0.01                             | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.003 | 0.001 | 0.001 | 0.001             | 0.005 | 0.001 | 0.001 |      |
| NHMRC (2008) Recreational as 10x the drinking water criteria (2011 )          |                                                          |                                       |                                     |                                       | 0.7                                  |                                        | 0.7                                 |                                     |                                                     |                                                     |                                                     |                                                        | 0.7                   |                                              |                                    |                              |             |                                  |       |       |       |       |       | 0.3   |       |       |       |       | 0.01  | 0.01              |       |       |       |      |
| ANZG (2018) Marine water 95% toxicant DGVs                                    |                                                          |                                       |                                     |                                       |                                      |                                        |                                     |                                     |                                                     |                                                     |                                                     |                                                        |                       |                                              |                                    |                              |             |                                  |       |       |       |       |       |       |       |       |       | 0.03  |       |                   |       |       |       |      |
| CRC Care 2011 Table A2 Vapour Intrusion HSL-A Residential (Low Density), Clay |                                                          |                                       |                                     |                                       |                                      |                                        |                                     |                                     |                                                     |                                                     |                                                     |                                                        |                       |                                              |                                    |                              |             |                                  |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |      |
| NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Clay               |                                                          |                                       |                                     |                                       |                                      |                                        |                                     |                                     |                                                     |                                                     |                                                     |                                                        |                       |                                              |                                    |                              |             |                                  |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |      |
| PFAS NEMP 2020 Table 5 Interim marine 95%                                     |                                                          |                                       |                                     |                                       |                                      |                                        | 0.13                                |                                     |                                                     |                                                     |                                                     |                                                        |                       |                                              |                                    |                              |             |                                  |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |      |

| Sample ID | Lab Report Number | Date      | <0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.05 | <0.1 | <0.01  | <0.001 | <0.001 | -      | -      | -      | -      | <0.001 | -      | <0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | - | <0.001 |
|-----------|-------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|
| MW01      | 996556/999571     | 5/06/2023 | <0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.05 | <0.1 | <0.01  | <0.001 | <0.001 | -      | -      | -      | -      | <0.001 | -      | <0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | - | <0.001 |
| MW02      | 996556/999571     | 5/06/2023 | <0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.05 | <0.1 | <0.01  | <0.001 | <0.001 | -      | -      | -      | -      | <0.001 | -      | <0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | - | <0.001 |
| MW03      | 996556/999571     | 5/06/2023 | <0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.05 | <0.1 | <0.01  | <0.001 | <0.001 | -      | -      | -      | -      | <0.001 | -      | <0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | - | <0.001 |
| QA01      | 324973            | 5/06/2023 | <0.02 | -     | <0.01 | <0.01 | <0.01 | <0.01 | <0.02 | <0.01 | <0.01 | <0.02 | <0.02 | <0.01 | -     | <0.01 | -     | <0.01 | -    | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -      | <0.001 | <0.001 | <0.01  | <0.001 | <0.001 |   |        |
| QC01      | 996556/999571     | 5/06/2023 | <0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.05 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.05 | <0.1 | <0.01  | <0.001 | <0.001 | -      | -      | -      | -      | <0.001 | -      | <0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | - | <0.001 |

Table B: Groundwater Analytical Data Summary  
Project Number: 65196  
Project Name: Cabramtta East Precinct Development DSI





|                                                                               | rocarbons   |                      |                     | Chlorinated Benzenes   |                        |                     |                     |                     |               |                   |                      | Trihalomethanes |                 |                      |                  | Organic Sulfur Compounds | Major Cations |                   | Ionic Balance       | Chlorinated Hydrocarbons |
|-------------------------------------------------------------------------------|-------------|----------------------|---------------------|------------------------|------------------------|---------------------|---------------------|---------------------|---------------|-------------------|----------------------|-----------------|-----------------|----------------------|------------------|--------------------------|---------------|-------------------|---------------------|--------------------------|
|                                                                               | Iodomethane | 4-Methyl-2-pentanone | Methyl Ethyl Ketone | 1,2,3-trichlorobenzene | 1,2,4-trichlorobenzene | 1,2-Dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | Chlorobenzene | Hexachlorobenzene | Dibromochloromethane | Chloroform      | Tribromomethane | Bromodichloromethane | Carbon disulfide | Calcium                  | Magnesium     | Hardness as CaCO3 | Hexachlorobutadiene |                          |
| EQL                                                                           | mg/L        | mg/L                 | mg/L                | mg/L                   | mg/L                   | mg/L                | mg/L                | mg/L                | mg/L          | mg/L              | mg/L                 | mg/L            | mg/L            | mg/L                 | mg/L             | mg/L                     | mg/L          | mg/L              | mg/L                |                          |
|                                                                               | 0.001       | 0.005                | 0.005               | 0.001                  | 0.001                  | 0.001               | 0.001               | 0.001               | 0.001         | 0.0002            | 0.001                | 0.005           | 0.001           | 0.001                | 0.001            | 0.5                      | 0.5           | 1                 | 0.001               |                          |
| NHMRC (2008) Recreational as 10x the drinking water criteria (2011 )          |             |                      |                     |                        |                        | 15                  |                     | 0.4                 | 3             |                   |                      |                 |                 |                      |                  |                          |               |                   | 0.007               |                          |
| ANZG (2018) Marine water 95% toxicant DGVs                                    |             |                      |                     |                        | 0.08                   |                     |                     |                     | 0.055         | 0.0001            |                      | 0.77            |                 |                      |                  |                          |               |                   |                     |                          |
| CRC Care 2011 Table A2 Vapour Intrusion HSL-A Residential (Low Density), Clay |             |                      |                     |                        |                        |                     |                     |                     |               |                   |                      |                 |                 |                      |                  |                          |               |                   |                     |                          |
| NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Clay               |             |                      |                     |                        |                        |                     |                     |                     |               |                   |                      |                 |                 |                      |                  |                          |               |                   |                     |                          |
| PFAS NEMP 2020 Table 5 Interim marine 95%                                     |             |                      |                     |                        |                        |                     |                     |                     |               |                   |                      |                 |                 |                      |                  |                          |               |                   |                     |                          |

| Sample ID | Lab Report Number | Date      | <0.001 | <0.005 | <0.005 | -      | -      | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | 43  | 690 | 3000 | -      |
|-----------|-------------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|-----|-----|------|--------|
| MW01      | 996556/999571     | 5/06/2023 | <0.001 | <0.005 | <0.005 | -      | -      | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | 37  | 670 | 2900 | -      |
| MW02      | 996556/999571     | 5/06/2023 | <0.001 | <0.005 | <0.005 | -      | -      | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | 5.7 | 11  | 59   | -      |
| MW03      | 996556/999571     | 5/06/2023 | <0.001 | <0.005 | <0.005 | -      | -      | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | 5.7 | 11  | 59   | -      |
| QA01      | 324973            | 5/06/2023 | -      | -      | -      | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -   | -   | -    | <0.001 |
| QC01      | 996556/999571     | 5/06/2023 | <0.001 | <0.005 | <0.005 | -      | -      | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | -   | -   | -    | -      |

**Table C: Groundwater Parameters**

Project Number: 65196

Project Name: Cabramatta East Precinct Development



| Location | Date      | Depth to SWL (m b TOC) | Depth to EoH (m b TOC) | Dissolved Oxygen (mg/L) | Temperature (°C) | pH (pH units) | EC (µs/cm) | ORP (mV) |
|----------|-----------|------------------------|------------------------|-------------------------|------------------|---------------|------------|----------|
| MW01     | 5/06/2023 | 1.894                  | 6.826                  | 2.64                    | 19.2             | 5.55          | 17881      | 158.4    |
| MW02     | 5/06/2023 | 2.444                  | 6.679                  | 2.84                    | 21.1             | 5.55          | 15288      | 205.8    |
| MW03     | 5/06/2023 | 2.337                  | 9.882                  | 2.87                    | 22.3             | 5.66          | 7973       | 130.4    |







**Table E: Soil Vapour Parameters**

Project Number: 65196

Project Name: Cabramatta East Precinct Development DSI



| Location | Oxygen (%) | Methane (%) | Carbon Dioxide (%) | PID (ppm) |
|----------|------------|-------------|--------------------|-----------|
| SV01     | 19.5       | 0           | 0.1                | 46.1      |
| SV02     | 17.4       | 0           | 2                  | 0.7       |
| SV03     | 19.1       | 0           | 0.7                | 1.1       |
| SV04     | 19.6       | 0           | 0.4                | 0.7       |
| SV05     | 12.9       | 0           | 1.5                | 0.5       |
| SV06     | 20.3       | 0           | 0.1                | 26.6      |
| SV07     | 18.3       | 0           | 0.4                | 2         |
| SV08     | 20.2       | 0           | 0.1                | 20        |

## Appendix A   Photolog

**PHOTO 1: REAR OF THE STARDUST HOTEL, FACING NORTHWEST**



**PHOTO 2: OPEN-AIR CARPARK BEHIND STARDUST HOTEL, FACING NORTHEAST**



**PHOTO 3: SOUTHERN COMMERCIAL BUILDINGS AND PRIVATE CARPARKING, FACING WEST**



**PHOTO 4: REAR OF SOUTHERN COMMERCIAL BUILDING, FACING SOUTH**



Job No: 65196

Client: Moon Investments

Version: R01 Rev A

Date: 14/06/2023

Drawn By: AS

Checked By: CL

Not to Scale

Coord. Sys n/a

**76-86 Broomfield Street and 139 & 147-151 Cabramatta Road East, Cabramatta NSW**

**APPENDIX C**



**PHOTO 5: NORTHWEST OF CARPARK, FACING WEST**



**PHOTO 6: FILL MATERIAL AT BH03**



**PHOTO 7: FILL MATERIAL AT BH04**



**PHOTO 8: NATURAL MATERIAL AT MW01**



Job No: 65196

Client: Moon Investments

Version: R01 Rev A

Date: 14/06/2023

Drawn By: AS

Checked By: CL

Not to Scale

Coord. Sys n/a

**76-86 Broomfield Street and 139 &  
147-151 Cabramatta Road East,  
Cabramatta NSW**

**APPENDIX C**



## Appendix B    Bore logs

|                                                              |                                           |                                    |
|--------------------------------------------------------------|-------------------------------------------|------------------------------------|
| <b>PROJECT NUMBER</b> 65196                                  | <b>DRILLING COMPANY</b> Terratest         | <b>EASTING</b> N/A                 |
| <b>PROJECT NAME</b> Cabramtta BH, GME & SV May               | <b>DRILLING DATE</b> 29-May-23            | <b>NORTHING</b> N/A                |
| <b>CLIENT</b> Moon Investments                               | <b>DRILL RIG</b> Drill_Rig                | <b>COORD SYS</b> GDA94_MGA_zone_54 |
| <b>ADDRESS</b> 76 - 86 Broomfield Street,<br>Cabramatta, NSW | <b>DRILLING METHOD</b> Solid Flight Auger | <b>COORD SOURCE</b>                |
|                                                              | <b>DIAMETER</b>                           | <b>LOGGED BY</b> J.Vee             |

**COMMENTS**

| Drilling Method | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description                                                                                                                                       | Moisture | Samples        | Additional Observations                            |
|-----------------|---------------|-------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------------------------------|
| SFA             | 0.1           |             | Asphalt            | ASPHALT                                                                                                                                                        |          |                |                                                    |
|                 | 0.2           |             |                    |                                                                                                                                                                |          |                |                                                    |
|                 | 0.3           |             |                    |                                                                                                                                                                |          |                |                                                    |
|                 | 0.4           |             | Fill               | Fill - slightly sandy CLAY, dark brown, heterogeneous, damp, medium plasticity, soft to firm, inclusions of gravels, trace sticks, trace bits of concrete.     | DP       | BH01_0.30-0.40 | No Odour, Staining or Asbestos Containing Material |
|                 | 0.5           |             |                    |                                                                                                                                                                |          |                |                                                    |
|                 | 0.6           |             | Fill               | Fill - sandy CLAY, yellow brown, heterogeneous, damp, medium plasticity, firm, inclusions of little (10-20%) small sandstone gravels & trace bits of roadbase. | DP       | BH01_0.50-0.60 | No Odour, Staining or Asbestos Containing Material |
|                 | 0.7           |             |                    |                                                                                                                                                                |          |                |                                                    |
|                 | 0.8           |             |                    |                                                                                                                                                                |          |                |                                                    |
|                 | 0.9           |             |                    |                                                                                                                                                                |          |                |                                                    |
|                 | 1.0           |             | CH                 | Natural - slightly sandy CLAY, orange & brown: heterogeneous, damp, medium plasticity, firm, inclusions of trace charcoal specs and trace sand.                | DP       | BH01_1.00-1.10 | No Odour, Staining or Asbestos Containing Material |
|                 | 1.1           |             |                    |                                                                                                                                                                |          |                |                                                    |
|                 | 1.2           |             |                    |                                                                                                                                                                |          |                |                                                    |
|                 | 1.3           |             |                    | Termination Depth at: 1.30 m.                                                                                                                                  |          |                |                                                    |

|                                                              |                                           |                                    |
|--------------------------------------------------------------|-------------------------------------------|------------------------------------|
| <b>PROJECT NUMBER</b> 65196                                  | <b>DRILLING COMPANY</b> Terratest         | <b>EASTING</b> N/A                 |
| <b>PROJECT NAME</b> Cabramtta BH, GME & SV May               | <b>DRILLING DATE</b> 29-May-23            | <b>NORTHING</b> N/A                |
| <b>CLIENT</b> Moon Investments                               | <b>DRILL RIG</b> Drill_Rig                | <b>COORD SYS</b> GDA94_MGA_zone_54 |
| <b>ADDRESS</b> 76 - 86 Broomfield Street,<br>Cabramatta, NSW | <b>DRILLING METHOD</b> Solid Flight Auger | <b>COORD SOURCE</b>                |
|                                                              | <b>DIAMETER</b>                           | <b>LOGGED BY</b> J.Vee             |

**COMMENTS**

| Drilling Method | Depth (m bgl) | Graphic Log | Lithological Class | Lithological Description                                                                                                            | Moisture | Samples        | Additional Observations                            |
|-----------------|---------------|-------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------------------------------|
| SFA             | 0.1           |             | Asphalt            | ASPHALT                                                                                                                             | DR       |                |                                                    |
|                 | 0.2           |             |                    |                                                                                                                                     |          |                |                                                    |
|                 | 0.3           |             |                    |                                                                                                                                     |          |                |                                                    |
|                 | 0.4           |             | Fill               | Fill - sandy CLAY, grey black, heterogeneous, damp, medium plasticity, soft to firm, includes of trace sand and trace tiny gravels. | DP       | BH02_0.30-0.40 | No Odour, Staining or Asbestos Containing Material |
|                 | 0.5           |             | Fill               | Fill - CLAY, slightly black, orange, brown mottled, heterogeneous, damp, medium plasticity, firm                                    | DP       | BH02_0.50-0.60 | No Odour, Staining or Asbestos Containing Material |
|                 | 0.6           |             |                    |                                                                                                                                     |          |                |                                                    |
|                 | 0.7           |             |                    |                                                                                                                                     |          |                |                                                    |
|                 | 0.8           |             |                    |                                                                                                                                     |          |                |                                                    |
|                 | 0.9           |             |                    |                                                                                                                                     |          |                |                                                    |
|                 | 1.0           |             | CH                 | Natural - CLAY, grey, red, brown, heterogeneous, damp, medium plasticity, firm, inclusions of very trace charcoal specs.            | DP       | BH02_1.00-1.10 | No Odour, Staining or Asbestos Containing Material |
|                 | 1.1           |             |                    |                                                                                                                                     |          |                |                                                    |
|                 | 1.2           |             |                    |                                                                                                                                     |          |                |                                                    |
|                 | 1.3           |             |                    | Termination Depth at: 1.30 m.                                                                                                       |          |                |                                                    |
|                 | 1.4           |             |                    |                                                                                                                                     |          |                |                                                    |

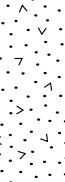
|                                                              |                                           |                                    |
|--------------------------------------------------------------|-------------------------------------------|------------------------------------|
| <b>PROJECT NUMBER</b> 65196                                  | <b>DRILLING COMPANY</b> Terratest         | <b>EASTING</b> N/A                 |
| <b>PROJECT NAME</b> Cabramtta BH, GME & SV May               | <b>DRILLING DATE</b> 29-May-23            | <b>NORTHING</b> N/A                |
| <b>CLIENT</b> Moon Investments                               | <b>DRILL RIG</b> Drill_Rig                | <b>COORD SYS</b> GDA94_MGA_zone_54 |
| <b>ADDRESS</b> 76 - 86 Broomfield Street,<br>Cabramatta, NSW | <b>DRILLING METHOD</b> Solid Flight Auger | <b>COORD SOURCE</b>                |
|                                                              | <b>DIAMETER</b>                           | <b>LOGGED BY</b> J.Vee             |

**COMMENTS**

| Drilling Method | Depth (m bgl) | Graphic Log    | Lithological Class | Lithological Description                                                                                                                                | Moisture | Samples        | Additional Observations                            |
|-----------------|---------------|----------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------------------------------|
| SFA             | 0.1           |                | Asphalt            | Fill - ROADBASE heterogeneous, dry, inclusions of road base, trace sand and clay.                                                                       | DR       |                | No Odour, Staining or Asbestos Containing Material |
|                 | 0.2           |                | Fill               | Fill - slightly sandy CLAY, dark brown, heterogeneous, damp, medium plasticity, soft, inclusions of standstone gravels & cobbles.                       | DP       |                |                                                    |
|                 | 0.3           | BH03_0.30-0.40 |                    |                                                                                                                                                         |          |                |                                                    |
|                 | 0.4           |                |                    |                                                                                                                                                         |          |                |                                                    |
|                 | 0.5           |                | Fill               | Fill - CLAY, dark brown, yellow, brown mottled., heterogeneous, damp, medium plasticity, firm, inclusions of trace sandstone gravels, trace red mottle. | DP       | BH03_0.50-0.60 | No Odour, Staining or Asbestos Containing Material |
|                 | 0.6           |                |                    |                                                                                                                                                         |          |                |                                                    |
|                 | 0.7           |                |                    |                                                                                                                                                         | DP       |                |                                                    |
|                 | 0.8           |                |                    |                                                                                                                                                         |          |                |                                                    |
|                 | 0.9           |                |                    |                                                                                                                                                         |          |                |                                                    |
|                 | 1             |                | CH                 | Natural - CLAY, brown, red, grey mottled., heterogeneous, damp, medium plasticity, firm, inclusions of trace small gravels.                             | DP       | BH03_1.00-1.10 | No Odour, Staining or Asbestos Containing Material |
|                 | 1.1           |                |                    |                                                                                                                                                         |          |                |                                                    |
|                 | 1.2           |                |                    |                                                                                                                                                         |          |                |                                                    |
|                 | 1.3           |                |                    | Termination Depth at: 1.30 m.                                                                                                                           |          |                |                                                    |
|                 | 1.4           |                |                    |                                                                                                                                                         |          |                |                                                    |

|                                                              |                                           |                                    |
|--------------------------------------------------------------|-------------------------------------------|------------------------------------|
| <b>PROJECT NUMBER</b> 65196                                  | <b>DRILLING COMPANY</b> Terratest         | <b>EASTING</b> N/A                 |
| <b>PROJECT NAME</b> Cabramtta BH, GME & SV May               | <b>DRILLING DATE</b> 29-May-23            | <b>NORTHING</b> N/A                |
| <b>CLIENT</b> Moon Investments                               | <b>DRILL RIG</b> Drill_Rig                | <b>COORD SYS</b> GDA94_MGA_zone_54 |
| <b>ADDRESS</b> 76 - 86 Broomfield Street,<br>Cabramatta, NSW | <b>DRILLING METHOD</b> Solid Flight Auger | <b>COORD SOURCE</b>                |
|                                                              | <b>DIAMETER</b>                           | <b>LOGGED BY</b> J.Vee             |

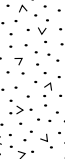
**COMMENTS**

| Drilling Method | Depth (m bgl) | Graphic Log                                                                         | Lithological Class | Lithological Description                                                                                                                  | Moisture | Samples        | Additional Observations                            |
|-----------------|---------------|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------------------------------|
| SFA             | 0.1           |    | Concrete           | CONCRETE                                                                                                                                  |          |                |                                                    |
|                 | 0.2           |                                                                                     |                    |                                                                                                                                           |          |                |                                                    |
|                 | 0.3           |   | Fill               | Fill - slightly sandy CLAY, brown, heterogeneous, wet, medium plasticity, soft, inclusions of trace small gravels & yellow orange mottle. | W        | BH04_0.30-0.40 | No Odour, Staining or Asbestos Containing Material |
|                 | 0.4           |                                                                                     |                    |                                                                                                                                           |          |                |                                                    |
|                 | 0.5           |                                                                                     |                    |                                                                                                                                           |          |                |                                                    |
|                 | 0.6           |                                                                                     | Fill               | Fill - sandy CLAY, yellow, dark brown, heterogeneous, wet, medium plasticity, firm, inclusions of trace orange mottled and trace gravels. | W        | BH04_0.50-0.60 | No Odour, Staining or Asbestos Containing Material |
|                 | 0.7           |                                                                                     |                    |                                                                                                                                           |          |                |                                                    |
|                 | 0.8           |                                                                                     |                    |                                                                                                                                           |          |                |                                                    |
|                 | 0.9           |                                                                                     |                    |                                                                                                                                           |          |                |                                                    |
|                 | 1.0           |                                                                                     |                    |                                                                                                                                           |          |                |                                                    |
|                 | 1.1           |  | CH                 | Natural - CLAY, brown, red, grey mottled.: heterogeneous, wet, medium plasticity, firm                                                    | W        | BH04_1.00-1.10 | No Odour, Staining or Asbestos Containing Material |
|                 | 1.2           |                                                                                     |                    |                                                                                                                                           |          |                |                                                    |
|                 | 1.3           |                                                                                     |                    |                                                                                                                                           |          |                |                                                    |
|                 | 1.4           |                                                                                     |                    | Termination Depth at: 1.30 m.                                                                                                             |          |                |                                                    |



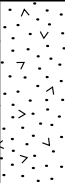
|                                                              |                                           |                                    |
|--------------------------------------------------------------|-------------------------------------------|------------------------------------|
| <b>PROJECT NUMBER</b> 65196                                  | <b>DRILLING COMPANY</b> Terratest         | <b>EASTING</b> N/A                 |
| <b>PROJECT NAME</b> Cabramtta BH, GME & SV May               | <b>DRILLING DATE</b> 30-May-23            | <b>NORTHING</b> N/A                |
| <b>CLIENT</b> Moon Investments                               | <b>DRILL RIG</b> Drill_Rig                | <b>COORD SYS</b> GDA94_MGA_zone_54 |
| <b>ADDRESS</b> 76 - 86 Broomfield Street,<br>Cabramatta, NSW | <b>DRILLING METHOD</b> Solid Flight Auger | <b>COORD SOURCE</b>                |
|                                                              | <b>DIAMETER</b>                           | <b>LOGGED BY</b> J.Vee             |

**COMMENTS**

| Drilling Method | Depth (m bgl) | Graphic Log                                                                         | Lithological Class | Lithological Description                                                                                                                                                | Moisture | Samples        | Additional Observations                            |
|-----------------|---------------|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------------------------------|
| SFA             | 0.1           |    | Concrete           | CONCRETE                                                                                                                                                                |          |                |                                                    |
|                 | 0.2           |                                                                                     |                    |                                                                                                                                                                         |          |                |                                                    |
|                 | 0.3           |   | Fill               | Fill - slightly gravelly CLAY, black brown, heterogeneous, damp, medium plasticity, soft to firm, inclusions of trace tiny gravels, one piece of trace plastic tile.    | DP       | BH05_0.30-0.40 | No Odour, Staining or Asbestos Containing Material |
|                 | 0.4           |                                                                                     |                    |                                                                                                                                                                         |          |                |                                                    |
|                 | 0.5           |                                                                                     |                    |                                                                                                                                                                         |          |                |                                                    |
|                 | 0.6           |  | Fill               | Fill - CLAY, dark brown, brown, orange mottled, heterogeneous, damp, medium plasticity, firm, inclusions of trace specs of sand and charcoal.                           | DP       | BH05_0.50-0.60 | No Odour, Staining or Asbestos Containing Material |
|                 | 0.7           |                                                                                     |                    |                                                                                                                                                                         |          |                |                                                    |
|                 | 0.8           |                                                                                     |                    |                                                                                                                                                                         |          |                |                                                    |
|                 | 0.9           |                                                                                     |                    |                                                                                                                                                                         |          |                |                                                    |
|                 | 1.0           |                                                                                     |                    |                                                                                                                                                                         |          |                |                                                    |
|                 | 1.1           |  | Fill               | Fill - CLAY, red brown (with trace grey mottle), heterogeneous, damp, medium plasticity, firm, inclusions of litte (10 - 20%) decaying sticks and trace charcoal specs. | DP       | BH05_1.00-1.10 | No Odour, Staining or Asbestos Containing Material |
|                 | 1.2           |                                                                                     |                    |                                                                                                                                                                         |          |                |                                                    |
|                 | 1.3           |                                                                                     |                    |                                                                                                                                                                         |          |                |                                                    |
|                 | 1.4           |                                                                                     |                    |                                                                                                                                                                         |          |                |                                                    |
|                 | 1.5           |  | CH                 | Natural - CLAY, red brown with grey mottle., heterogeneous, damp, medium plasticity, firm, inclusions of trace specs of charcoal.                                       | DP       | BH05_1.50-1.60 | No Odour, Staining or Asbestos Containing Material |
|                 | 1.6           |                                                                                     |                    |                                                                                                                                                                         |          |                |                                                    |
|                 | 1.7           |                                                                                     |                    | Termination Depth at: 1.70 m.                                                                                                                                           |          |                |                                                    |

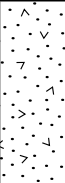
|                                                              |                                           |                                    |
|--------------------------------------------------------------|-------------------------------------------|------------------------------------|
| <b>PROJECT NUMBER</b> 65196                                  | <b>DRILLING COMPANY</b> Terratest         | <b>EASTING</b> N/A                 |
| <b>PROJECT NAME</b> Cabramtta BH, GME & SV May               | <b>DRILLING DATE</b> 29-May-23            | <b>NORTHING</b> N/A                |
| <b>CLIENT</b> Moon Investments                               | <b>DRILL RIG</b> Drill_Rig                | <b>COORD SYS</b> GDA94_MGA_zone_54 |
| <b>ADDRESS</b> 76 - 86 Broomfield Street,<br>Cabramatta, NSW | <b>DRILLING METHOD</b> Solid Flight Auger | <b>COORD SOURCE</b>                |
|                                                              | <b>DIAMETER</b>                           | <b>LOGGED BY</b> J.Vee             |

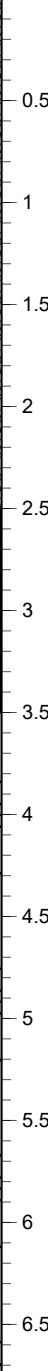
**COMMENTS**

| Drilling Method | Depth (m bgl) | Graphic Log                                                                         | Lithological Class | Lithological Description                                                                                                                    | Moisture                      | Samples        | Additional Observations                            |
|-----------------|---------------|-------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------|----------------------------------------------------|
| SFA             | 0.1           |    | Concrete           | CONCRETE                                                                                                                                    |                               |                | No Odour, Staining or Asbestos Containing Material |
|                 | 0.2           |                                                                                     | Fill               | Fill - slightly sandy CLAY, black brown, heterogeneous, damp, medium plasticity, firm, inclusions of little tiny sandstone gravels          | DP                            |                |                                                    |
|                 | 0.3           | BH06_0.30-0.40                                                                      |                    |                                                                                                                                             |                               |                |                                                    |
|                 | 0.4           |                                                                                     |                    |                                                                                                                                             |                               |                |                                                    |
|                 | 0.5           |   | Fill               | Fill - slightly sandy CLAY, black orange brown mottled, heterogeneous, damp, medium plasticity, firm, inclusions of very trace tiny gravels | DP                            | BH06_0.50-0.60 | No Odour, Staining or Asbestos Containing Material |
|                 | 0.6           |                                                                                     |                    |                                                                                                                                             |                               |                |                                                    |
|                 | 0.7           |                                                                                     |                    |                                                                                                                                             |                               |                |                                                    |
|                 | 0.8           |                                                                                     |                    |                                                                                                                                             |                               |                |                                                    |
|                 | 0.9           |                                                                                     |                    |                                                                                                                                             |                               |                |                                                    |
|                 | 1             |  | CH                 | Natural - CLAY, trace grey, orange brown mottled., heterogeneous, damp, medium plasticity, firm, inclusions of trace charcoal specs.        | DP                            | BH06_1.00-1.10 | No Odour, Staining or Asbestos Containing Material |
|                 | 1.1           |                                                                                     |                    |                                                                                                                                             |                               |                |                                                    |
|                 | 1.2           |                                                                                     |                    |                                                                                                                                             |                               |                |                                                    |
|                 |               | 1.3                                                                                 |                    |                                                                                                                                             | Termination Depth at: 1.30 m. |                |                                                    |
|                 | 1.4           |                                                                                     |                    |                                                                                                                                             |                               |                |                                                    |

|                                                              |                                           |                                    |
|--------------------------------------------------------------|-------------------------------------------|------------------------------------|
| <b>PROJECT NUMBER</b> 65196                                  | <b>DRILLING COMPANY</b> Terratest         | <b>EASTING</b> N/A                 |
| <b>PROJECT NAME</b> Cabramtta BH, GME & SV May               | <b>DRILLING DATE</b> 29-May-23            | <b>NORTHING</b> N/A                |
| <b>CLIENT</b> Moon Investments                               | <b>DRILL RIG</b> Drill_Rig                | <b>COORD SYS</b> GDA94_MGA_zone_54 |
| <b>ADDRESS</b> 76 - 86 Broomfield Street,<br>Cabramatta, NSW | <b>DRILLING METHOD</b> Solid Flight Auger | <b>COORD SOURCE</b>                |
|                                                              | <b>DIAMETER</b>                           | <b>LOGGED BY</b> J.Vee             |

**COMMENTS**

| Drilling Method | Depth (m bgl) | Graphic Log                                                                         | Lithological Class | Lithological Description                                                                                                                                                                                       | Moisture | Samples        | Additional Observations                            |                                                    |
|-----------------|---------------|-------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------------------------------------------|----------------------------------------------------|
| SFA             | 0.1           |    | Concrete           | CONCRETE                                                                                                                                                                                                       | DP       |                | No Odour, Staining or Asbestos Containing Material |                                                    |
|                 | 0.2           |   | Fill               | Fill - sandy CLAY, dark brown (sand is tan, grey, orange), heterogeneous, damp, medium plasticity, firm, inclusions of trace gravels and sandstone gravels, medium - grained, sub-angular to sub-rounded sand. | DP       |                |                                                    | No Odour, Staining or Asbestos Containing Material |
|                 | 0.3           |                                                                                     |                    |                                                                                                                                                                                                                |          |                | BH07_0.30-0.40                                     |                                                    |
|                 | 0.4           |                                                                                     |                    |                                                                                                                                                                                                                |          |                |                                                    |                                                    |
|                 | 0.5           |  | Fill               | Fill - sandy CLAY, slightly yellow, dark brown, heterogeneous, damp, medium plasticity, firm, inclusions of little gravels and sandstone gravels.                                                              | DP       | BH07_0.50-0.60 | No Odour, Staining or Asbestos Containing Material |                                                    |
|                 | 0.6           |                                                                                     |                    |                                                                                                                                                                                                                |          |                |                                                    |                                                    |
|                 | 0.7           |                                                                                     |                    |                                                                                                                                                                                                                |          |                |                                                    |                                                    |
|                 | 0.8           |                                                                                     |                    |                                                                                                                                                                                                                |          |                |                                                    |                                                    |
|                 | 0.9           |                                                                                     |                    |                                                                                                                                                                                                                |          |                |                                                    |                                                    |
|                 | 1             |  | CH                 | Natural - CLAY, grey orange brown, heterogeneous, damp, medium plasticity, firm, inclusions of trace charcoal specs.                                                                                           | DP       | BH07_1.00-1.10 | No Odour, Staining or Asbestos Containing Material |                                                    |
|                 | 1.1           |                                                                                     |                    |                                                                                                                                                                                                                |          |                |                                                    |                                                    |
|                 | 1.2           |                                                                                     |                    |                                                                                                                                                                                                                |          |                |                                                    |                                                    |
|                 | 1.3           |                                                                                     |                    | Termination Depth at: 1.30 m.                                                                                                                                                                                  |          |                |                                                    |                                                    |
|                 | 1.4           |                                                                                     |                    |                                                                                                                                                                                                                |          |                |                                                    |                                                    |

| PROJECT NUMBER 65196                               |                                                                                    |                                                                                    | DRILLING COMPANY Terratest                                                         |                    |                                                                                                                                                                    | EASTING N/A                   |                |                                                    |
|----------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------|----------------------------------------------------|
| PROJECT NAME Cabramtta BH, GME & SV May            |                                                                                    |                                                                                    | DRILLING DATE 30-May-23                                                            |                    |                                                                                                                                                                    | NORTHING N/A                  |                |                                                    |
| CLIENT Moon Investments                            |                                                                                    |                                                                                    | DRILL RIG Drill_Rig                                                                |                    |                                                                                                                                                                    | ELEVATION N/A                 |                |                                                    |
| PERMIT NO. N/A                                     |                                                                                    |                                                                                    | DRILLING METHOD Solid Flight Auger                                                 |                    |                                                                                                                                                                    | COORD SYS GDA94_MGA_zone_54   |                |                                                    |
| ADDRESS 76 - 86 Broomfield Street, Cabramatta, NSW |                                                                                    |                                                                                    | TOTAL DEPTH 7.1 m bgl                                                              |                    |                                                                                                                                                                    | COORD SOURCE                  |                |                                                    |
|                                                    |                                                                                    |                                                                                    | DIAMETER                                                                           |                    |                                                                                                                                                                    | LOGGED BY J.Vee               |                |                                                    |
| COMPLETION                                         |                                                                                    |                                                                                    | CASING 50 mm                                                                       |                    |                                                                                                                                                                    | SCREEN INTERVAL 4 - 6.7 m bgl |                |                                                    |
| COMMENTS                                           |                                                                                    |                                                                                    |                                                                                    |                    |                                                                                                                                                                    |                               |                |                                                    |
| Drilling Method                                    | Well Details                                                                       | Depth (m bgl)                                                                      | Graphic Log                                                                        | Lithological Class | Lithological Description                                                                                                                                           | Moisture                      | Samples        | Additional Observations                            |
| SFA                                                |  |  |  | Asphalt            | ASPHALT                                                                                                                                                            | DR                            |                | No Odour, Staining or Asbestos Containing Material |
|                                                    |                                                                                    |                                                                                    |                                                                                    | Fill               | Fill - sandy CLAY, dark brown, heterogeneous, damp, medium plasticity, soft, inclusions of trace tiny gravels                                                      | DP                            | MW01_0.30-0.40 | No Odour, Staining or Asbestos Containing Material |
|                                                    |                                                                                    |                                                                                    |                                                                                    | Fill               | Fill - CLAY, grey & red brown mottled, heterogeneous, damp, medium plasticity, firm, inclusions of charcoal specs, decaying sticks & trace rootlets.               | DP                            | MW01_0.50-0.60 | No Odour, Staining or Asbestos Containing Material |
|                                                    |                                                                                    |                                                                                    |                                                                                    | Fill               | Fill - CLAY, grey & red brown mottled, heterogeneous, damp, medium plasticity, firm, inclusions of charcoal specs, decaying sticks & trace rootlets.               | DP                            | MW01_1.00-1.10 | No Odour, Staining or Asbestos Containing Material |
|                                                    |                                                                                    |                                                                                    |                                                                                    | CH                 | Fill - CLAY, grey & red brown mottled, heterogeneous, damp, medium plasticity, firm, inclusions of charcoal specs, decaying sticks & trace rootlets.               | DP                            | MW01_1.50-1.60 | No Odour, Staining or Asbestos Containing Material |
|                                                    |                                                                                    |                                                                                    |                                                                                    | CH                 | Natural - CLAY, reddish brown, heterogeneous, damp, medium plasticity, firm                                                                                        | DP                            | MW01_2.00-2.10 | No Odour, Staining or Asbestos Containing Material |
|                                                    |                                                                                    |                                                                                    |                                                                                    | CH                 | Natural - CLAY, slightly orange brown (with trace grey mottle), heterogeneous, damp, medium plasticity, firm                                                       | DP                            | MW01_3.00-3.10 | No Odour, Staining or Asbestos Containing Material |
|                                                    |                                                                                    |                                                                                    |                                                                                    | CH                 | Natural - slightly sandy CLAY, orange brown grey mottled, heterogeneous, damp, medium plasticity, soft to firm, inclusions of very trace tiny gravels.             | DP                            | MW01_4.00-4.10 | No Odour, Staining or Asbestos Containing Material |
|                                                    |                                                                                    |                                                                                    |                                                                                    | CH                 | Natural - CLAY, grey brown mottled, heterogeneous, damp, medium plasticity, soft to firm, inclusions of pellatised clay                                            | DP                            | MW01_5.00-5.10 | No Odour, Staining or Asbestos Containing Material |
|                                                    |                                                                                    |                                                                                    |                                                                                    | CL                 | Natural - CLAY, slightly orange & dark brown, heterogeneous, damp, low plasticity, soft, inclusions of trace pellatised clay. Signs of moisture / wetness present. | DP                            | MW01_6.00-6.10 | No Odour, Staining or Asbestos Containing Material |
|                                                    |                                                                                    |                                                                                    |                                                                                    |                    |                                                                                                                                                                    | MW01_7.00-7.10                |                |                                                    |
|                                                    |                                                                                    |                                                                                    |                                                                                    |                    | Termination Depth at: 7.10 m.                                                                                                                                      |                               |                |                                                    |

| PROJECT NUMBER 65196                                  |                                                                                    |               | DRILLING COMPANY Terratest                                                         |                               |                                                                                                                                                                                | EASTING N/A                   |                |                                                    |
|-------------------------------------------------------|------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------|----------------------------------------------------|
| PROJECT NAME Cabramtta BH, GME & SV May               |                                                                                    |               | DRILLING DATE 30-May-23                                                            |                               |                                                                                                                                                                                | NORTHING N/A                  |                |                                                    |
| CLIENT Moon Investments                               |                                                                                    |               | DRILL RIG Drill_Rig                                                                |                               |                                                                                                                                                                                | ELEVATION N/A                 |                |                                                    |
| PERMIT NO. N/A                                        |                                                                                    |               | DRILLING METHOD Solid Flight Auger                                                 |                               |                                                                                                                                                                                | COORD SYS GDA94_MGA_zone_54   |                |                                                    |
| ADDRESS 76 - 86 Broomfield Street,<br>Cabramatta, NSW |                                                                                    |               | TOTAL DEPTH 7.1 m bgl                                                              |                               |                                                                                                                                                                                | COORD SOURCE                  |                |                                                    |
|                                                       |                                                                                    |               | DIAMETER                                                                           |                               |                                                                                                                                                                                | LOGGED BY J.Vee               |                |                                                    |
| COMPLETION                                            |                                                                                    |               | CASING 50 mm                                                                       |                               |                                                                                                                                                                                | SCREEN INTERVAL 4 - 6.9 m bgl |                |                                                    |
| COMMENTS                                              |                                                                                    |               |                                                                                    |                               |                                                                                                                                                                                |                               |                |                                                    |
| Drilling Method                                       | Well Details                                                                       | Depth (m bgl) | Graphic Log                                                                        | Lithological Class            | Lithological Description                                                                                                                                                       | Moisture                      | Samples        | Additional Observations                            |
| SFA                                                   |  | 0.5           |   | Concrete                      | CONCRETE                                                                                                                                                                       | DR                            |                | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    |               |   | Fill                          | Fill - sandy clay CLAY, dark brown, heterogeneous, damp, medium plasticity, soft to firm, inclusions of trace tan coloured sand, clay clasts and trace tiny sandstone gravels. | DP                            | MW02_0.30-0.40 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    |               |   | Fill                          | Fill - CLAY, light and dark brown, heterogeneous, damp, medium plasticity, soft: inclusions of trace sand and very trace tile, glass & plastic.                                | DP                            | MW02_0.50-0.60 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    | 1             |   | Fill                          | Fill - CLAY, red brown mottled, heterogeneous, damp, medium plasticity, firm, inclusions of very trace sand.                                                                   | DP                            | MW02_1.00-1.10 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    |               |                                                                                    | CH                            | Natural - CLAY, slight grey & red brown mottled, heterogeneous, damp, medium plasticity, firm                                                                                  | DP                            | MW02_1.50-1.60 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    | 2             |   | CH                            | Natural - CLAY, brown, velvet red, grey mottled, heterogeneous, damp, medium plasticity, firm                                                                                  | DP                            | MW02_2.00-2.10 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    |               |                                                                                    | CH                            | Natural - CLAY, velvet red grey mottled, heterogeneous, damp, low to medium plasticity, soft, inclusions of slightly pellatised clay                                           | DP                            | MW02_3.00-3.10 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    | 3             |   | CH                            | Natural - CLAY, velvet red, grey, brown mottled, heterogeneous, damp, low to medium plasticity, soft, inclusions of slightly pellatised clay                                   | DP                            | MW02_4.00-4.10 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    |               |                                                                                    | CH                            | Natural - CLAY, grey brown orange mottled, heterogeneous, damp, low to medium plasticity, soft, inclusions of pellatised clay and signs of moisture present.                   | DP                            | MW02_5.00-5.10 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    | 4             |  | CH                            | Natural - CLAY, brown, heterogeneous, damp, low to medium plasticity, soft, inclusions of pellatised clay and signs of moisture present.                                       | DP                            | MW02_6.00-6.10 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    |               |                                                                                    | CH                            | Natural - CLAY, brown, heterogeneous, damp, low to medium plasticity, soft, inclusions of pellatised clay and signs of moisture present.                                       | DP                            | MW02_7.00-7.10 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    |               |                                                                                    | Termination Depth at: 7.10 m. |                                                                                                                                                                                |                               |                |                                                    |



| PROJECT NUMBER 65196                                  |                                                                                    |                                                                                                  | DRILLING COMPANY Terratest                                                         |                    |                                                                                                                                                                                       | EASTING N/A                                                                                                     |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|-------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------|----------------------------------------------------|
| PROJECT NAME Cabramtta BH, GME & SV May               |                                                                                    |                                                                                                  | DRILLING DATE 29-May-23                                                            |                    |                                                                                                                                                                                       | NORTHING N/A                                                                                                    |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
| CLIENT Moon Investments                               |                                                                                    |                                                                                                  | DRILL RIG Drill_Rig                                                                |                    |                                                                                                                                                                                       | ELEVATION N/A                                                                                                   |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
| PERMIT NO. N/A                                        |                                                                                    |                                                                                                  | DRILLING METHOD Solid Flight Auger                                                 |                    |                                                                                                                                                                                       | COORD SYS GDA94_MGA_zone_54                                                                                     |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
| ADDRESS 76 - 86 Broomfield Street,<br>Cabramatta, NSW |                                                                                    |                                                                                                  | TOTAL DEPTH 10.1 m bgl                                                             |                    |                                                                                                                                                                                       | COORD SOURCE                                                                                                    |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  | DIAMETER                                                                           |                    |                                                                                                                                                                                       | LOGGED BY J.Vee                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
| COMPLETION                                            |                                                                                    |                                                                                                  | CASING 50 mm                                                                       |                    |                                                                                                                                                                                       | SCREEN INTERVAL 7 - 10 m bgl                                                                                    |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
| COMMENTS                                              |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
| Drilling Method                                       | Well Details                                                                       | Depth (m bgl)                                                                                    | Graphic Log                                                                        | Lithological Class | Lithological Description                                                                                                                                                              | Moisture                                                                                                        | Samples          | Additional Observations                                                                          |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
| SFA                                                   |  | 0.5                                                                                              |   | Asphalt            | ASPHALT                                                                                                                                                                               | DR                                                                                                              | MW03_0.20-0.30   | No Odour, Staining or Asbestos Containing Material                                               |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    | Fill               | Fill - slightly silty CLAY, orange brown: heterogeneous, damp, medium plasticity, soft, inclusions of charcoal specs, gravels, trace organic debris.                                  | DP                                                                                                              |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    | 1                  | Fill                                                                                                                                                                                  | Fill - CLAY, brown: heterogeneous, damp, medium plasticity, soft, inclusions of trace charcoal specs & gravels. | W                | MW03_0.50-0.60                                                                                   | No Odour, Staining or Asbestos Containing Material                                               |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    | Fill                                                                                             | MW03_1.00-1.10                                                                     |                    | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    | 1.5                                                                                              |  | CH                 | Fill - sandy gravelly CLAY, light brown: heterogeneous, wet, medium plasticity, soft, inclusions of lots of small gravels. Water present at this depth. (potentially perched aquifer) | DP                                                                                                              | MW03_1.50-1.60   | No Odour, Staining or Asbestos Containing Material                                               |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    | Natural - CLAY, brown grey deep red mottled., heterogeneous, damp, high plasticity, firm, inclusions of very trace charcoal specs                                                     |                                                                                                                 |                  | No Odour, Staining or Asbestos Containing Material                                               |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    | 2                                                                                                |                                                                                    | CH                 | Natural - CLAY, yellow, brown, grey mottled., heterogeneous, damp, medium plasticity, soft to firm, inclusions of trace tiny gravels.                                                 | DP                                                                                                              | MW03_4.00-4.10   | No Odour, Staining or Asbestos Containing Material                                               |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       |                                                                                                                 |                  |                                                                                                  | 4.5                                                                                              | CH               | Natural - CLAY, brown (with trace magenta and grey mottle), heterogeneous, damp, medium plasticity, soft, inclusions of clay clasts and pellatised clay | DP                                                 | MW03_5.00-5.10   | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    | 5.5                                                                                              |                                                                                    | CH                 | Natural - slightly sandy CLAY, yellow brown, heterogeneous, damp, medium plasticity, soft, inclusions of pellatised clay.                                                             | DP                                                                                                              | MW03_7.00-7.10   | No Odour, Staining or Asbestos Containing Material                                               |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       |                                                                                                                 |                  |                                                                                                  | 6                                                                                                | CH               | Natural - sandy clay CLAY, dark brown, heterogeneous, damp, medium plasticity, soft, inclusions of pellatised clay.                                     | DP                                                 | MW03_8.00-8.10   | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    | 6.5                                                                                              |                                                                                    | CH                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay.                                                                                      | DP                                                                                                              | MW03_9.00-9.10   | No Odour, Staining or Asbestos Containing Material                                               |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       |                                                                                                                 |                  |                                                                                                  | 7                                                                                                | CH               | Natural - CLAY, black grey (with trace orange mottle), heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay.                        | DP                                                 | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    | 7.5                                                                                              |                                                                                    | CH                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay.                                                                                      | DP                                                                                                              | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                               |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       |                                                                                                                 |                  |                                                                                                  | 8                                                                                                | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay.                                                        | DP                                                 | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    | 8.5                                                                                              |                                                                                    | CH                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay.                                                                                      | DP                                                                                                              | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                               |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       |                                                                                                                 |                  |                                                                                                  | 9                                                                                                | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay.                                                        | DP                                                 | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    | 9.5                                                                                              |                                                                                    | CH                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay.                                                                                      | DP                                                                                                              | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                               |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       |                                                                                                                 |                  |                                                                                                  | 10                                                                                               | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay.                                                        | DP                                                 | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material |
|                                                       |                                                                                    | 10                                                                                               |                                                                                    | CH                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay.                                                                                      | DP                                                                                                              | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                               |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       |                                                                                                                 |                  |                                                                                                  | 10                                                                                               | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay.                                                        | DP                                                 | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. |                                                                                    | DP                 | MW03_10.00-10.10                                                                                                                                                                      | No Odour, Staining or Asbestos Containing Material                                                              |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       |                                                                                                                 | 10               | CH                                                                                               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP               | MW03_10.00-10.10                                                                                                                                        | No Odour, Staining or Asbestos Containing Material |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                 | MW03_10.00-10.10   | No Odour, Staining or Asbestos Containing Material                                                                                                                                    |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |
|                                                       |                                                                                    |                                                                                                  |                                                                                    |                    |                                                                                                                                                                                       | 10                                                                                                              | CH               | Natural - CLAY, black, heterogeneous, damp, low plasticity, soft, inclusions of pellatised clay. | DP                                                                                               | MW03_10.00-10.10 | No Odour, Staining or Asbestos Containing Material                                                                                                      |                                                    |                  |                                                    |
| 10                                                    | CH                                                                                 | Natural - CLAY, black, heterogeneous, damp,                                                      |                                                                                    |                    |                                                                                                                                                                                       |                                                                                                                 |                  |                                                                                                  |                                                                                                  |                  |                                                                                                                                                         |                                                    |                  |                                                    |

## Appendix C   Calibration Documentation

## Certificate of Service and Calibration

### Peristaltic Pump Geotech Geopump 2

|                       |                                                |
|-----------------------|------------------------------------------------|
| <b>Company Name</b>   | WAM Scientific                                 |
| <b>Office Address</b> | 26 Bungarra Crescent, Chipping Norton NSW 2170 |
| <b>Phone Number</b>   | +61 405 241 484                                |
| <b>Contact Name</b>   | William Pak                                    |
| <b>Instrument</b>     | Geotech Geopump Peristaltic Pump               |
| <b>Cable Length</b>   | 4.5m                                           |
| <b>Serial Number</b>  | Pump: 6065                                     |
| <b>Serial Number</b>  | Head: -                                        |
| <b>Client Name</b>    | Jemimah Vee/Alison Smith (JBS&G)               |
| <b>Project Number</b> | 65196                                          |

| Instrument Check  |                              |             |                                    |
|-------------------|------------------------------|-------------|------------------------------------|
| Item              | Test                         | Test Passed | Comments                           |
| 2 x 12V Batteries | Klein Tools MM300 Multimeter | ✓           | Both batteries reading above 12V   |
| Battery Terminals | Check                        | ✓           | No damage                          |
| Charger           | Condition/Check              | ✓           | Functioning                        |
| Cabling           | Check                        | ✓           | No damage                          |
| Alligator Clips   | Check                        | ✓           | Protected, no damage               |
| Casing            | Check                        | ✓           | Clean, no damage                   |
| Handle            | Check                        | ✓           | No damage                          |
| Pump Head         | Check                        | ✓           | EZ2 Head, no damage                |
| Pump Condition    | Decontamination              | ✓           | Decontaminated                     |
| Pump Operation    | Operation                    | ✓           | Peristaltic pump functional        |
| Pump Tubing       | Replacement                  | ✓           | New 0.5m ¼" OD LDPE silicon tubing |
| Pump Speed        | Operation                    | ✓           | Speed knob functional              |

| Inclusions                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------|
| 2 x Sealed lead acid 12V batteries included<br>1x Carry case for 12V batteries included<br>1x Intrinsically safe charger (clips) included |

| Declaration                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WAM Scientific</b> certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The pump has been decontaminated and cleaned upon return from the previous hire and is in good working order. |

|                         |             |
|-------------------------|-------------|
| <b>Checked By</b>       | William Pak |
| <b>Calibration Date</b> | 02/06/2023  |
| <b>Calibration Due</b>  | 02/12/2023  |

## Certificate of Service and Calibration

### Interface Meter

### Heron H.Oil

|                       |                                                |
|-----------------------|------------------------------------------------|
| <b>Company Name</b>   | WAM Scientific                                 |
| <b>Office Address</b> | 26 Bungarra Crescent, Chipping Norton NSW 2170 |
| <b>Phone Number</b>   | +61 405 241 484                                |
| <b>Contact Name</b>   | William Pak                                    |
| <b>Instrument</b>     | Heron H.Oil Interface Meter (30m)              |
| <b>Serial Number</b>  | 01-8142                                        |
| <b>Client Name</b>    | Jemimah Vee/Alison Smith (JBS&G)               |
| <b>Project Number</b> | 65196                                          |

| Instrument Check      |                              |             |                                                              |
|-----------------------|------------------------------|-------------|--------------------------------------------------------------|
| Item                  | Test                         | Test Passed | Comments                                                     |
| 9V Battery            | Klein Tools MM300 Multimeter | ✓           | Battery voltage reading above 7.9V                           |
| Battery Box           | Check                        | ✓           | No damage                                                    |
| Face and Back Plates  | Check                        | ✓           | No damage                                                    |
| Thumb Screws          | Check                        | ✓           | Rubber ends intact                                           |
| Tape Hangar/Protector | Check                        | ✓           | No damage                                                    |
| On/Off Button         | Operation                    | ✓           | Button is functional                                         |
| Buzzer                | Operation                    | ✓           | Intermittent tone in H <sub>2</sub> O, solid tone in product |
| LED Signal Light      | Operation                    | ✓           | LED light functional – green and red                         |
| Probe                 | Operation/Check              | ✓           | Decontaminated, cleaned and tested                           |
| Tape                  | Condition/Check              | ✓           | Decontaminated and cleaned, no damage                        |
| Connection            | Check                        | ✓           | Probe and link connected correctly and tightly               |
| PCB                   | Operation                    | ✓           | Unit is fully functional                                     |
| Electronics Panel     | Orientation                  | ✓           | Correctly aligned                                            |

| Instrument Readings |              |                |
|---------------------|--------------|----------------|
| Product             | Buzzer       | LED Light      |
| H <sub>2</sub> O    | Intermittent | Blinking – Red |
| Petroleum           | Solid        | Steady – Red   |

| Declaration                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>WAM Scientific</b> certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The interface meter was decontaminated, cleaned and tested with a mixture of tap water and petrol, shielded from ambient light.</p> |

|                         |             |
|-------------------------|-------------|
| <b>Checked By</b>       | William Pak |
| <b>Calibration Date</b> | 02/06/2023  |
| <b>Calibration Due</b>  | 02/12/2023  |

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| <b>Company Name</b>   | WAM Scientific                                      |
| <b>Office Address</b> | 26 Bungarra Crescent, Chipping Norton NSW 2170      |
| <b>Phone Number</b>   | +61 405 241 484                                     |
| <b>Contact Name</b>   | William Pak                                         |
| <b>Instrument</b>     | YSI Pro Plus Water Quality Meter w/ 1m Quatro Cable |
| <b>Serial Number</b>  | 21A102653                                           |
| <b>Client Name</b>    | Jemimah Vee/Alison Smith (JBS&G)                    |
| <b>Project Number</b> | 65196                                               |
| <b>Comments</b>       | -                                                   |

**Instrument Check**

| Item                          | Test                         | Test Passed | Comments                                             |
|-------------------------------|------------------------------|-------------|------------------------------------------------------|
| 2 x Alkaline C-size Batteries | Klein Tools MM300 Multimeter | ✓           | Both batteries reading above 2.9V                    |
| Battery Saver Function        | Operation                    | ✓           | Automatically turns off after 60 minutes if idle     |
| Unit Display                  | Operation                    | ✓           | Screen visible, no damage                            |
| Keypad                        | Operation                    | ✓           | Responsive, no damage                                |
| Connection Port and Cable     | Condition/Check              | ✓           | Clean, no damage                                     |
| Monitor Housing               | Condition/Check              | ✓           | No damage                                            |
| Firmware                      | Version                      | ✓           | 4.0.0                                                |
| pH Probe                      | Condition/Calibration        | ✓           | Calibrated and conforms to manufacturer's specs      |
| pH millivolts for pH 7.00     | Calibration                  | ✓           | pH 7.00 calibration range between 0 mV $\pm$ 50 mV   |
| pH millivolts for pH 4.00     | Calibration                  | ✓           | pH 4 mV range +165 to +180 from 7 buffer mV value    |
| pH slope                      | Calibration                  | ✓           | Range between 55 to 60 mV/pH (ideal value 59 mV)     |
| Response time < 90 seconds    | Calibration                  | ✓           | Responds to correct value within 90 seconds          |
| ORP Probe                     | Condition/Calibration        | ✓           | Calibrated and conforms to manufacturer's specs      |
| ORP Reading                   | Calibration                  | ✓           | Within $\pm$ 80 mV of reference Zobell Reading       |
| Response time < 90 seconds    | Calibration                  | ✓           | Responds to correct value within 90 seconds          |
| Conductivity/Temp Probe       | Condition/Calibration        | ✓           | Calibrated and conforms to manufacturer's specs      |
| Conductivity Cell             | Calibration                  | ✓           | Conductivity cell constant 5.0 $\pm$ 1.0 in GLP file |
| Clean Sensor Readings         | Calibration                  | ✓           | Clean sensor reads less than 3 uS/cm in dry air      |
| Dissolved Oxygen Probe        | Condition/Calibration        | ✓           | Calibrated and conforms to manufacturer's specs      |
| DO Cap                        | Condition/Calibration        | ✓           | 1.25 mil PE membrane (yellow membrane)               |
| DO Sensor in Use              | Condition                    | ✓           | Polarographic DO sensor                              |
| DO Sensor Value               | Calibration                  | ✓           | (min 4.31 uA - max 8.00 uA) Avg 6.15 uA              |

**Instrument Readings**

| Parameter                     | Standard Used                                   | Reference No. | Calibration Value | Observed | Actual | Units      |
|-------------------------------|-------------------------------------------------|---------------|-------------------|----------|--------|------------|
| Temperature                   | Centre 370 Thermometer                          | Room Temp.    | 17.0              | 17.0     | 17.0   | °C         |
| pH                            | pH 4.00                                         | 386466        | 4.01              | 4.02     | 4.01   | pH         |
| pH                            | pH 7.00                                         | 387329        | 7.00              | 7.00     | 7.00   | pH         |
| Conductivity                  | 2760 $\mu$ S/cm at 25°C                         | 388521        | 2760              | 2598     | 2760   | $\mu$ S/cm |
| ORP (Ref. check only)         | Zobell A & B                                    | 380835/382785 | 242.0             | 245.8    | 242.0  | mV         |
| Zero Dissolved O <sub>2</sub> | NaSO <sub>3</sub> in Distilled H <sub>2</sub> O | 389912        | 0.0               | 0.3      | 0.0    | %          |
| 100% Dissolved O <sub>2</sub> | 100% Air Saturated H <sub>2</sub> O             | Fresh Air     | 100.0             | 99.0     | 100.0  | %          |

**Declaration**

**WAM Scientific** certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The calibration data supplied was obtained in accordance with manufacturer's specifications using solutions of known values.

|                         |             |
|-------------------------|-------------|
| <b>Calibrated By</b>    | William Pak |
| <b>Calibration Date</b> | 02/06/2023  |
| <b>Calibration Due</b>  | 02/12/2023  |

## Appendix D   Design Plans



# BROOMFIELD STREET, CABRAMATTA

## DEVELOPMENT APPLICATION CIVIL ENGINEERING PACKAGE



LOCALITY PLAN

SOURCE : NEARMAP.COM.AU (©2022)

### Sheet List Table

| Sheet Number | Sheet Title                                         |
|--------------|-----------------------------------------------------|
| DAC0000      | COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN     |
| DAC0101      | SPECIFICATION NOTES                                 |
| DAC0201      | GENERAL ARRANGEMENT PLAN                            |
| DAC1001      | SEDIMENT AND SOIL EROSION CONTROL PLAN              |
| DAC1101      | SEDIMENT AND SOIL EROSION CONTROL DETAILS           |
| DAC2001      | BULK EARTHWORKS CUT TO FILL PLAN                    |
| DAC2201      | BULK EARTHWORKS CUT TO FILL SECTIONS- SHEET 01      |
| DAC2202      | BULK EARTHWORKS CUT TO FILL SECTIONS- SHEET 02      |
| DAC2203      | BULK EARTHWORKS CUT TO FILL SECTIONS- SHEET 03      |
| DAC3001      | SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 01 |
| DAC3002      | SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 02 |
| DAC3003      | SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 03 |
| DAC3004      | SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 04 |
| DAC3011      | TYPICAL SECTIONS                                    |
| DAC4101      | STAGE 1 STORMWATER LONGITUDINAL SECTIONS - SHEET 01 |
| DAC4102      | STAGE 1 STORMWATER LONGITUDINAL SECTIONS - SHEET 02 |
| DAC4103      | STAGE 2 STORMWATER LONGITUDINAL SECTIONS - SHEET 01 |
| DAC4104      | STAGE 2 STORMWATER LONGITUDINAL SECTIONS - SHEET 02 |
| DAC4201      | STORMWATER CATCHMENT PLAN                           |
| DAC5001      | ALIGNMENT CONTROL PLAN                              |
| DAC5101      | LONGITUDINAL SECTIONS                               |
| DAC5201      | CROSS SECTIONS - SHEET 01                           |
| DAC5202      | CROSS SECTIONS - SHEET 02                           |
| DAC5203      | CROSS SECTIONS - SHEET 03                           |
| DAC9001      | DETAILS SHEET                                       |

DRAWN: U MANDAL  
DESIGNED: J CARROLL  
JOB MANAGER: B LAWRENCE  
VERIFIER:

| REVISION | DESCRIPTION                           | ISSUED | VER'D | APP'D | DATE     |
|----------|---------------------------------------|--------|-------|-------|----------|
| 01       | ISSUED FOR DEVELOPMENT APPLICATION    | UM     |       | JC    | 08.05.23 |
| 02       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |
|          |                                       |        |       |       |          |
|          |                                       |        |       |       |          |

|                                                                                         |                                                                                     |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| CLIENT                                                                                  | ARCHITECT                                                                           |
| MOON INVESTMENTS                                                                        | plus<br>architecture                                                                |
| DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS<br>VERIFICATION SIGNATURE HAS BEEN ADDED | THE COPYRIGHT OF THIS DRAWING REMAINS WITH<br>NORTHROP CONSULTING ENGINEERS PTY LTD |

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| ARCHITECT                                                                           | plus<br>architecture |
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| ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE<br>COMMENCING WORK.<br>NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE<br>USABILITY, COMPLETENESS OR SCALE OF DRAWINGS<br>TRANSFERRED ELECTRONICALLY.<br>THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR,<br>AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE. | SCALE 1:1250 @ A1    |
|                                                                                                                                                                                                                                                                                                         | 0 10 20 30 40 50 60m |

|                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Sydney<br>Level 11 345 George Street, Sydney NSW 2000<br>Ph (02) 9241 4188 Fax (02) 9241 4324<br>Email sydney@northrop.com.au ABN 81 094 433 100 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|         |                                 |
|---------|---------------------------------|
| PROJECT | BROOMFIELD STREET<br>CABRAMATTA |
|---------|---------------------------------|

|               |                                                                                                            |
|---------------|------------------------------------------------------------------------------------------------------------|
| DRAWING TITLE | CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br>COVER SHEET, DRAWING<br>SCHEDULE AND LOCALITY PLAN |
|---------------|------------------------------------------------------------------------------------------------------------|

|                         |           |
|-------------------------|-----------|
| JOB NUMBER              | 183030-01 |
| DRAWING NUMBER          | REVISION  |
| DAC0000                 | 02        |
| DRAWING SHEET SIZE = A1 |           |

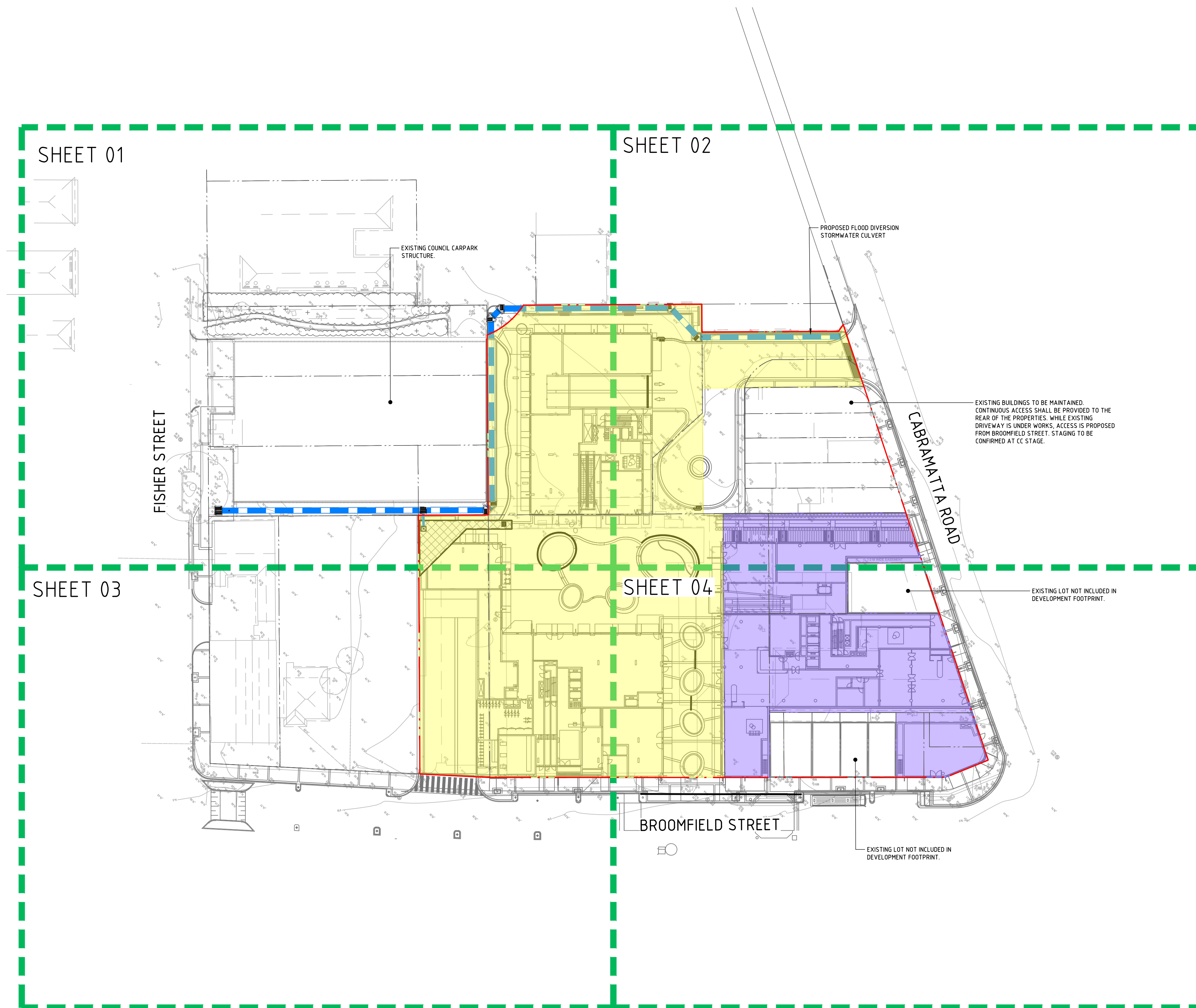
NOT FOR CONSTRUCTION

Found: c:\2625\asia\Northrop\SYN183030-01\_Broomfield St Cabramatta.dwg  
Plotted By: ANGUS FALLINS  
Date: 16/04/2023 2:24 PM

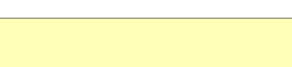








### LEGEND

|                                                                                     |                          |
|-------------------------------------------------------------------------------------|--------------------------|
|  | SITE BOUNDARY LINE       |
|  | EXISTING BOUNDARY LINE   |
|  | EXISTING CONTOURS        |
|  | SHEET LAYOUT @ 200 SCALE |
|  | STAGE 1 WORK EXTENT      |
|  | STAGE 2 WORK EXTENT      |

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION                           | ISSUED | VER'D | APP'D | DATE     | CLIENT                                                                                   | ARCHITECT                                                                             | PROJECT                                                                                                                                                                                                                                   | DRAWING TITLE                   | JOB NUMBER                                                                           |           |
|----------|---------------------------------------|--------|-------|-------|----------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------|-----------|
| 01       | ISSUED FOR DEVELOPMENT APPLICATION    | UM     |       | JC    | 08.05.23 | MOON INVESTMENTS                                                                         |  | <br>Sydney<br>Level 11 345 George Street, Sydney NSW 2000<br>Ph (02) 9241 4188 Fax (02) 9241 4324<br>Email sydney@northrop.com.au ABN 81 094 433 100 | BROOMFIELD STREET<br>CABRAMATTA | CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br><br>GENERAL ARRANGEMENT PLAN | 183030-01 |
| 02       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 09.05.23 |                                                                                          |                                                                                       |                                                                                                                                                                                                                                           |                                 |                                                                                      |           |
| 03       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |                                                                                          |                                                                                       |                                                                                                                                                                                                                                           |                                 |                                                                                      |           |
|          |                                       |        |       |       |          |                                                                                          |                                                                                       |                                                                                                                                                                                                                                           |                                 |                                                                                      |           |
|          |                                       |        |       |       |          |                                                                                          |                                                                                       |                                                                                                                                                                                                                                           |                                 |                                                                                      |           |
|          |                                       |        |       |       |          |                                                                                          |                                                                                       |                                                                                                                                                                                                                                           |                                 |                                                                                      |           |
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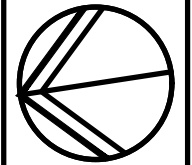


DRAWN: U MANDAL  
DESIGNED: J CARROLL  
JOB MANAGER: B LAWRENCE  
VERIFIER:

| REVISION | DESCRIPTION                           | ISSUED | VER'D | APP'D | DATE     |
|----------|---------------------------------------|--------|-------|-------|----------|
| 01       | ISSUED FOR DEVELOPMENT APPLICATION    | UM     |       | JC    | 08.05.23 |
| 02       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |
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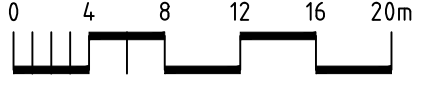
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| CLIENT                                                                                  | ARCHITECT                   |
| MOON INVESTMENTS                                                                        | <b>plus</b><br>architecture |
| DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS<br>VERIFICATION SIGNATURE HAS BEEN ADDED |                             |

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SCALE 1:400@A1





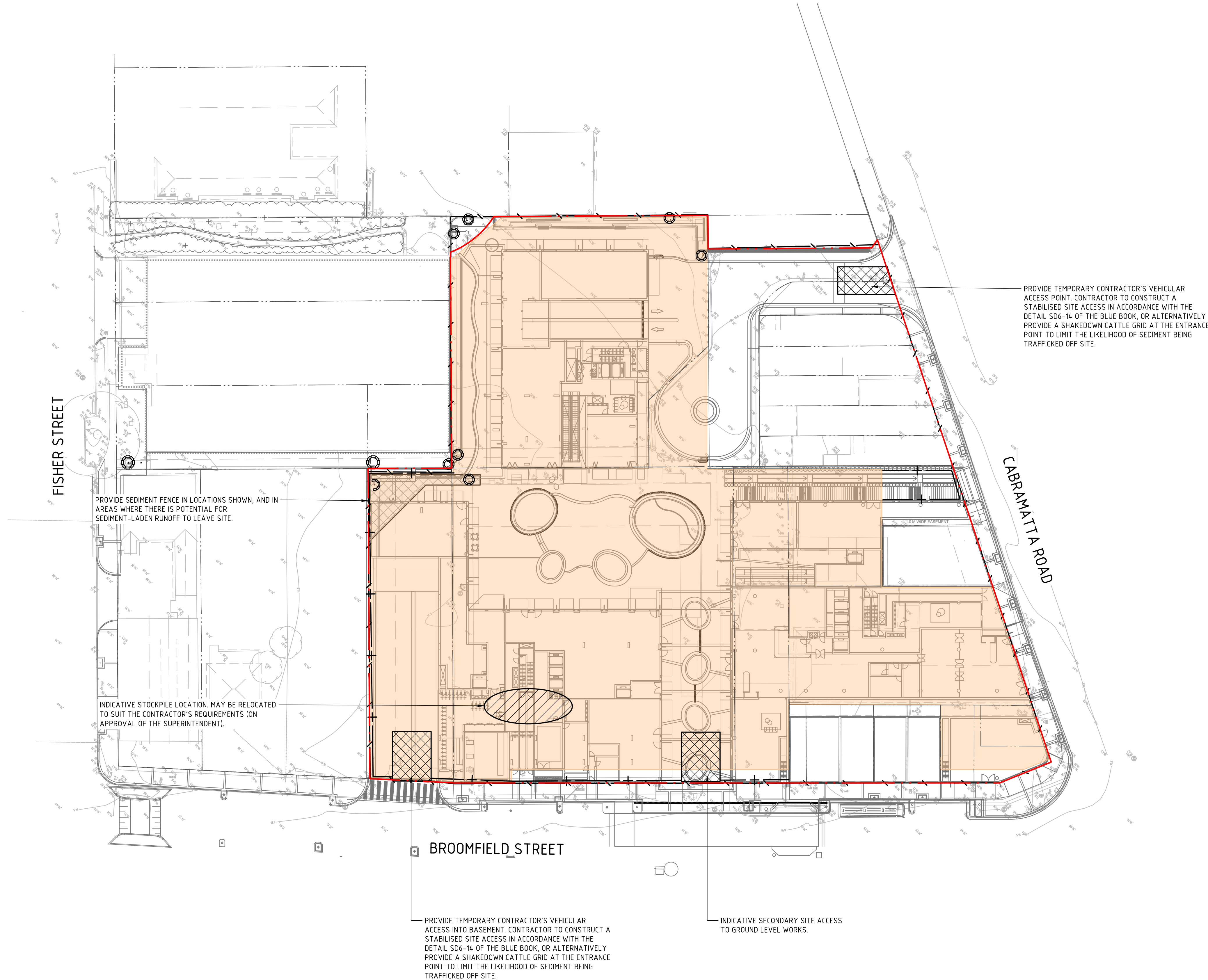
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Email [sydney@northrop.com.au](mailto:sydney@northrop.com.au) ABN 81 094 433 100

|                                 |
|---------------------------------|
| PROJECT                         |
| BROOMFIELD STREET<br>CABRAMATTA |

|                                                                                                   |
|---------------------------------------------------------------------------------------------------|
| DRAWING TITLE                                                                                     |
| CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br>SEDIMENT AND SOIL EROSION<br>CONTROL PLAN |

|                         |           |
|-------------------------|-----------|
| JOB NUMBER              | 183030-01 |
| DRAWING NUMBER          | REVISION  |
| DAC1001                 | 02        |
| DRAWING SHEET SIZE = A1 |           |

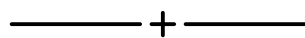
NOT FOR CONSTRUCTION

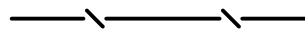


LEGEND

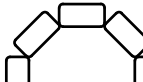
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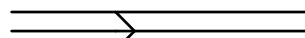
 EXISTING CONTOURS

 SEDIMENT FENCE

 SECURITY FENCE

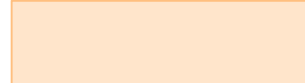
 WIRE MESH AND GRAVEL  
SEDIMENT FILTER

 SANDBAG SEDIMENT FILTER

 DRAINAGE SWALE

 STABILISED SITE ACCESS

 STOCKPILE

 PROPOSED BASEMENT EXTENTS

GENERAL NOTES:

1. ALL GRATED TRENCH DRAINS INSTALLED SHALL BE PROTECTED FROM SEDIMENT VIA GEOTEXTILE INLET FILTERS OR SIMILAR.

2. CONTINUOUS ACCESS SHALL BE PROVIDED TO REAR GARAGES OF THE FOLLOWING LOTS:

- LOT 1, DP212183
- LOT 2, DP212183
- LOT 7, DP29232
- LOT 8, DP29232
- LOT 9, DP580587

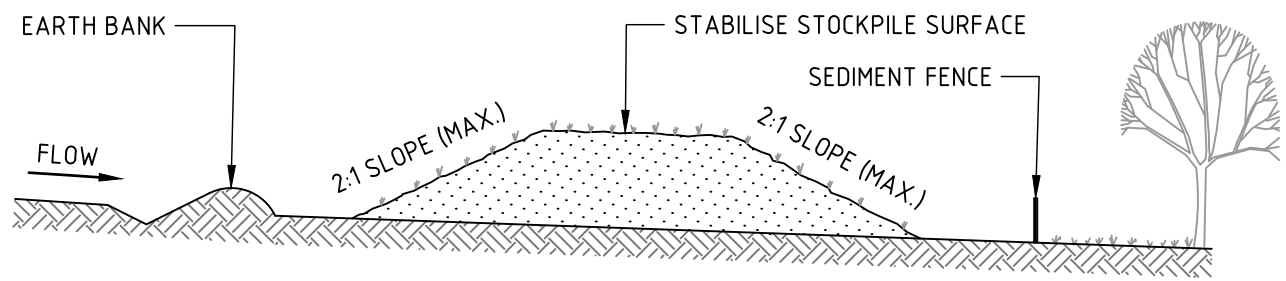
3. PONDING IN THE BASEMENT MAY OCCUR DURING RAIN EVENTS. PUMPING OF ANY PONDED WATER MAY BE NECESSARY (UPON APPROVAL OF THE SUPERINTENDENT). ALL WATER PUMPED OR OTHERWISE REMOVED FROM EXCAVATIONS OR BASEMENT AREAS MUST BE FILTERED TO ACHIEVE SUSPENDED SOLIDS/NON-FILTERABLE RESIDUE LEVELS COMPLYING WITH THE "AUSTRALIA WATER QUALITY GUIDELINES FOR FRESH AND MARINE WATERS", AND AS APPROVED BY THE RELEVANT COUNCIL AUTHORITY. IN THEIR ABSENCE, PUMPED WATER SHOULD COMPLY WITH THE FOLLOWING CHARACTERISTICS AS A MINIMUM:

- pH BETWEEN 6.5-6.8
- TOTAL SUSPENDED SOLIDS - 50mg/L; AND
- ELECTRICAL CONDUCTIVITY OF 0.2ms/cm, OR LESS THAN OR EQUAL TO BACKGROUND LEVELS.

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Plotted By: ANGUS FALLINS  
Date: 16/04/2020 2:24 PM



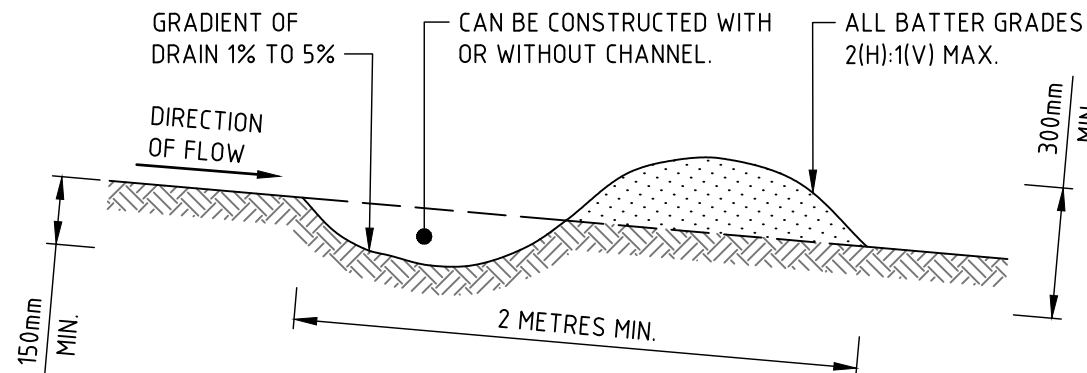
DRAWN: U MANDAL  
 DESIGNED: J CARROLL  
 JOB MANAGER: B LAWRENCE  
 VERIFIER:



CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

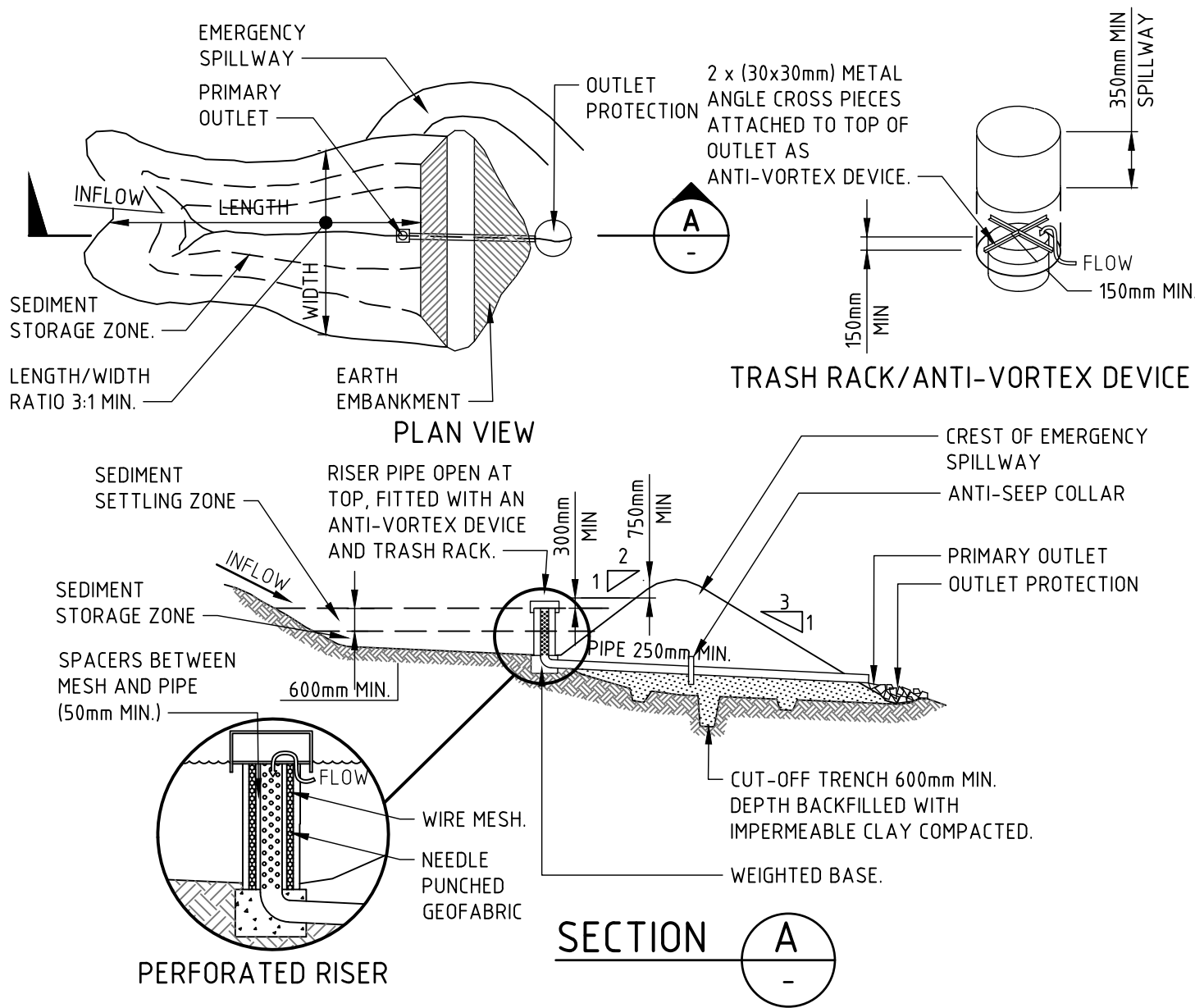
STOCKPILE



CONSTRUCTION NOTES

1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

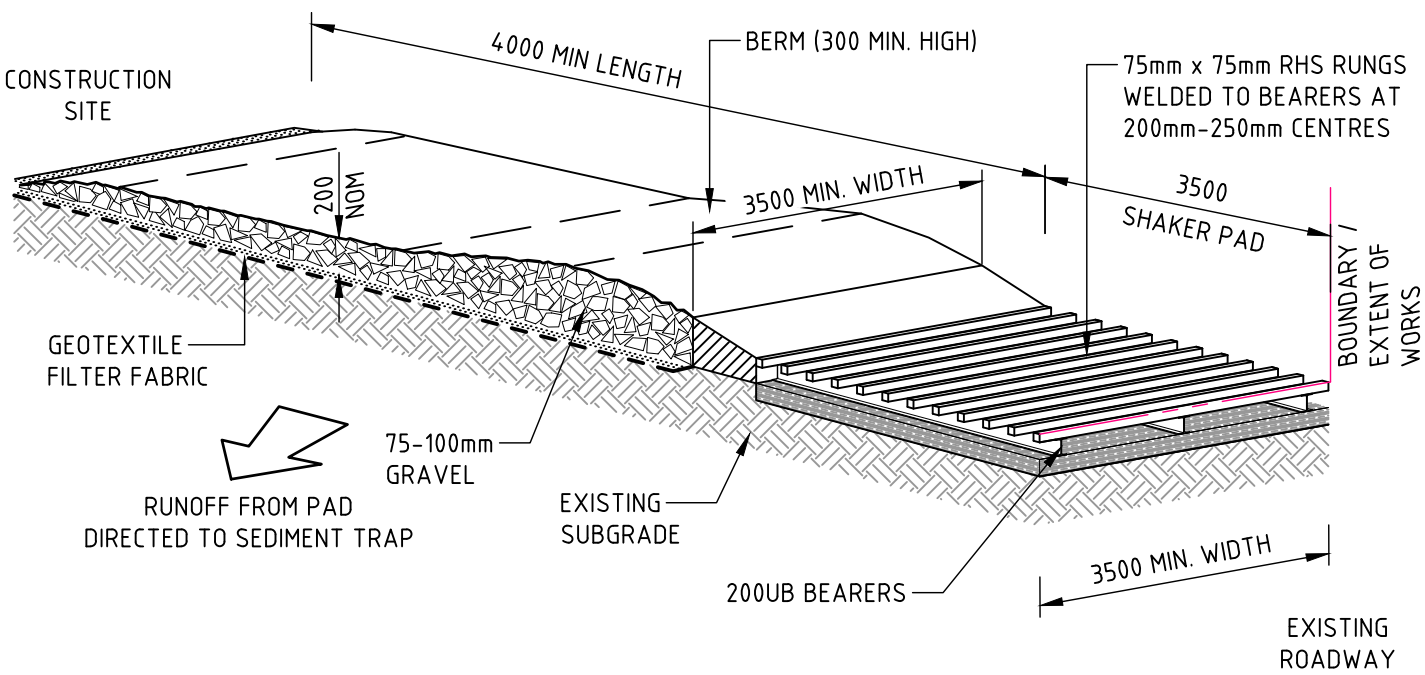
NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.  
DRAINAGE SWALE - LOW FLOW



CONSTRUCTION NOTES

1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
2. FORM A CUT OFF TRENCH UNDER THE CENTRELINE OF THE EMBANKMENT 600mm DEEP AND 1200mm WIDE, EXTENDING TO A POINT ON THE WATERCOURSE WALL ABOVE THE RISER SILL LEVEL.
3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.
4. SELECT FILL ACCORDING TO THE SWMP THAT IS FREE FROM ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND THE COMPACTED FILL TO THE EXISTING SUBSTRATE.
6. SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
7. INSTALL THE PIPE OUTLET WITH SEEPAGE COLLARS AS SPECIFIED IN THE SWMP AND STANDARD DRAWING 6-3B.
8. FORM BATTER GRADES AT 2(H):1(V) UPSTREAM AND 3(H):1(V) DOWNSTREAM OR AS SPECIFIED IN THE SWMP.

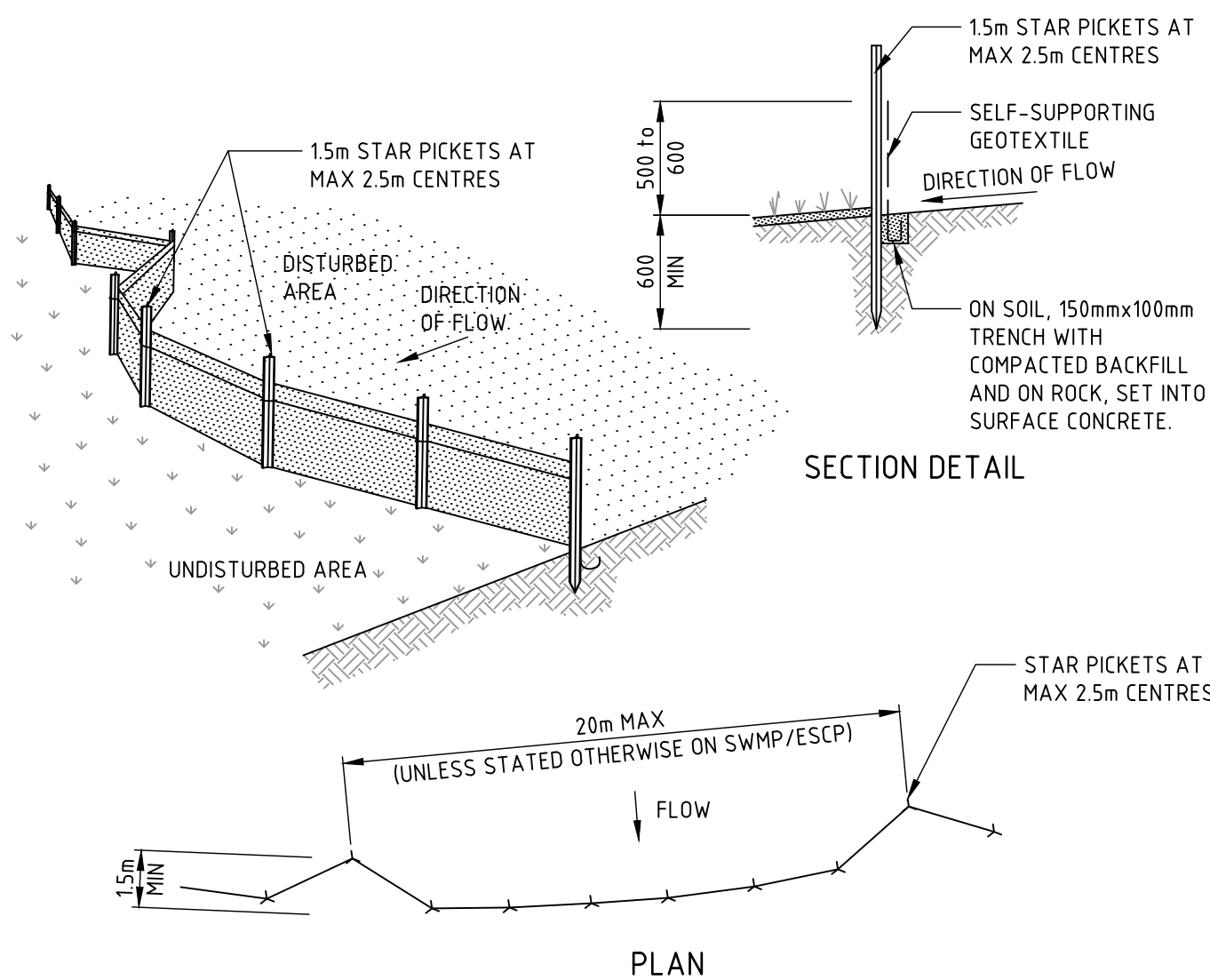
(APPLIES TO 'TYPE C' SOILS ONLY)  
EARTH BASIN - DRY



CONSTRUCTION NOTES

1. THE TEMPORARY ACCESS SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY.
  - THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.
3. INSTALL BARRIER ON EITHER SIDE OF SHAKER PAD. TO ENSURE VEHICLES ARE GUIDED ON TO THE PAD.
4. INVERT OF SHAKER PAD TO BE DRAINED VIA AGRICULTURAL PIPE WRAPPED IN GEOTEXTILE FABRIC.

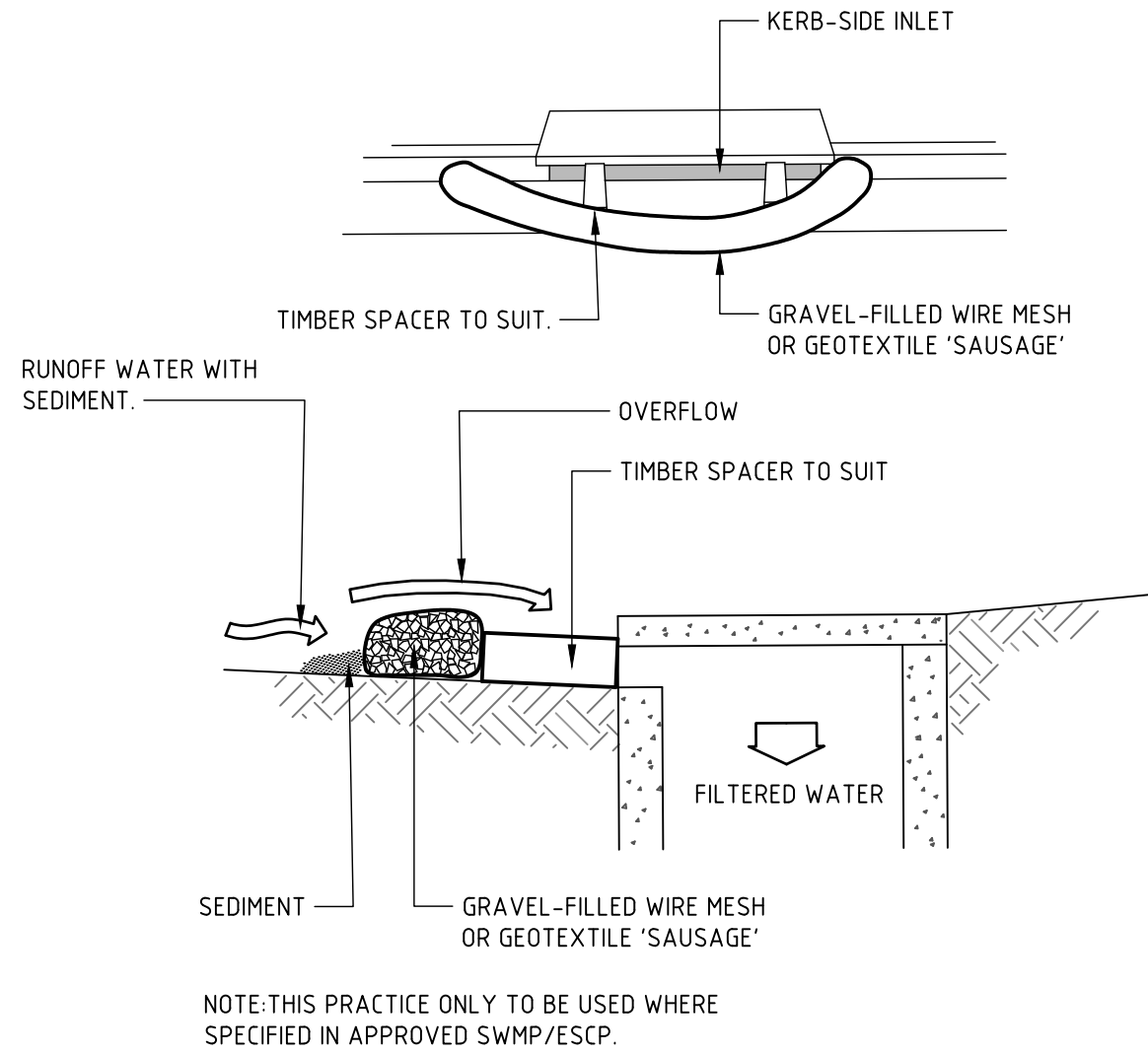
STABILISED SITE ACCESS



CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

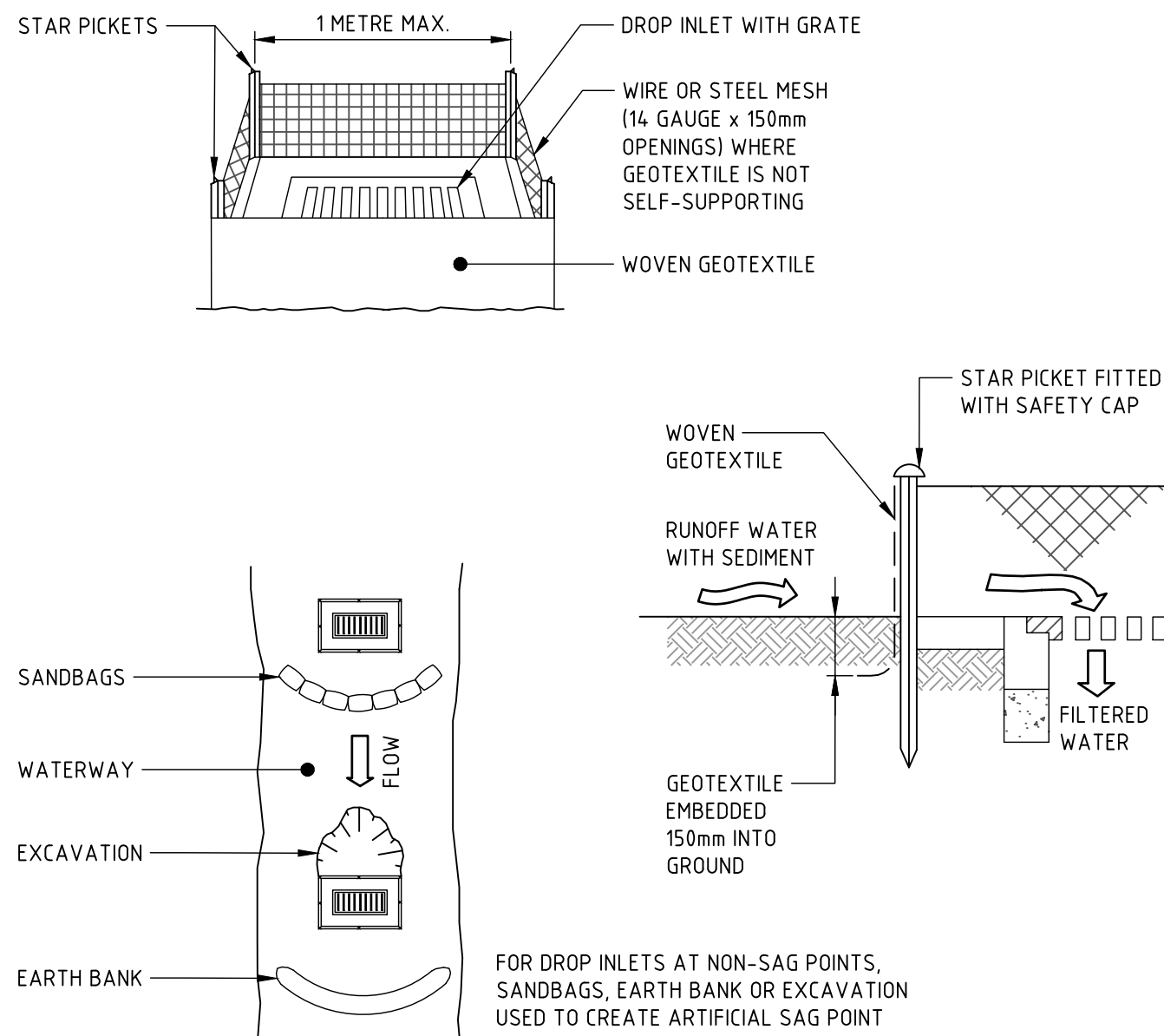
SEDIMENT FENCE



CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

WIRE MESH AND GRAVEL SEDIMENT FILTER



CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER TRAPS

NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION                           | ISSUED | VER'D | APP'D | DATE     | CLIENT                                                                               | ARCHITECT                                                                        | PROJECT                                                                                                                                                                                                                          | DRAWING TITLE                                | JOB NUMBER                                       |
|----------|---------------------------------------|--------|-------|-------|----------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------|
| 01       | ISSUED FOR DEVELOPMENT APPLICATION    | UM     |       | JC    | 08.05.23 | MOON INVESTMENTS                                                                     | <div>plus</div> <div>architecture</div>                                          | <div> </div> <div>           Sydney<br/>           Level 11 345 George Street, Sydney NSW 2000<br/>           Ph (02) 9241 4188 Fax (02) 9241 4324<br/>           Email sydney@northrop.com.au ABN 81 094 433 100         </div> | BROOMFIELD STREET<br>CABRAMATTA              | 183030-01<br>DRAWING NUMBER<br><b>DAC1101</b>    |
| 02       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |                                                                                      |                                                                                  |                                                                                                                                                                                                                                  |                                              |                                                  |
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|          |                                       |        |       |       |          |                                                                                      |                                                                                  |                                                                                                                                                                                                                                  |                                              |                                                  |

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 Date: 16/04/2024 2:24 PM



DRAWN: U MANDAL  
DESIGNED: J CARROLL  
JOB MANAGER: B LAWRENCE  
VERIFIER:

| REVISION | DESCRIPTION                           | ISSUED | VER'D | APP'D | DATE     |
|----------|---------------------------------------|--------|-------|-------|----------|
| 01       | ISSUED FOR DEVELOPMENT APPLICATION    | UM     |       | JC    | 08.05.23 |
| 02       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |
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| CLIENT                                                                                  |
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| MOON INVESTMENTS                                                                        |
| DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS<br>VERIFICATION SIGNATURE HAS BEEN ADDED |

| ARCHITECT                                                                           |
|-------------------------------------------------------------------------------------|
| <b>plus</b><br>architecture                                                         |
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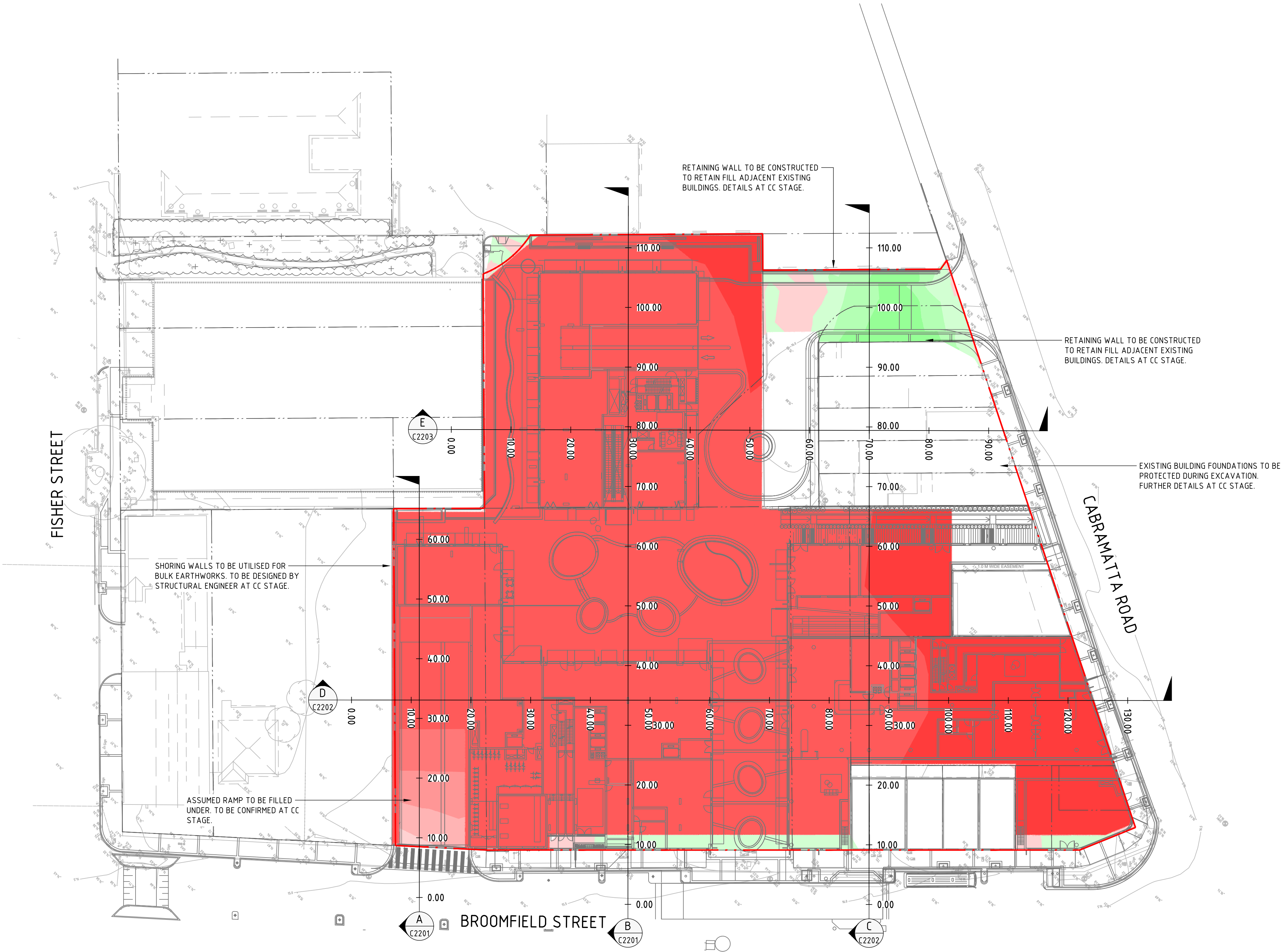
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|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| PROJECT                         |
|---------------------------------|
| BROOMFIELD STREET<br>CABRAMATTA |

| DRAWING TITLE                                                                               |
|---------------------------------------------------------------------------------------------|
| CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br>BULK EARTHWORKS CUT TO FILL<br>PLAN |

|                         |          |
|-------------------------|----------|
| JOB NUMBER              |          |
| 183030-01               |          |
| DRAWING NUMBER          | REVISION |
| DAC2001                 | 02       |
| DRAWING SHEET SIZE = A1 |          |

NOT FOR CONSTRUCTION



| LEGEND        |                        |
|---------------|------------------------|
|               | SITE BOUNDARY LINE     |
|               | EXISTING BOUNDARY LINE |
|               | PROPOSED CONTOURS      |
| DEPTH OF CUT  |                        |
|               | - 999m TO - 15.0m      |
|               | - 15.0m TO - 10.0m     |
|               | - 10.0m TO - 5.0m      |
|               | - 5.0m TO - 2.0m       |
|               | - 2.0m TO - 1.0m       |
|               | - 1.0m TO - 0.5m       |
|               | - 0.5m TO - 0.25m      |
|               | - 0.25m TO - 0.0m      |
| DEPTH OF FILL |                        |
|               | 0.0m TO 0.25m          |
|               | 0.25m TO 0.5m          |
|               | 0.5m TO 1.0m           |
|               | 1.0m TO 2.0m           |
|               | 2.0m TO 5.0m           |
|               | 5.0m TO 10.0m          |
|               | 10.0m TO 15.0m         |
|               | 15.0m TO 999m          |

| GENERAL NOTES: |                                                                                                                                                                                                                                       |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.             | REFER SPECIFICATIONS NOTES FOR EARTHWORKS GENERAL REQUIREMENTS.                                                                                                                                                                       |
| 2.             | ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.                                                                                                                               |
| 3.             | CAD FILES / DTM FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).                                                                                                                                            |
| 4.             | STRIP EXISTING TOPSOIL IN CONSULTATION WITH THE GEOTECHNICAL ENGINEER / REPORT. FOR THE PURPOSES OF EARTHWORKS CALCULATIONS, NO TOPSOIL STRIPPING DEPTH HAS BEEN ASSUMED. GROUND SLAB DEPTH OF 200mm HAS BEEN ASSUMED WHERE REQUIRED. |
| 5.             | NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.                                                                                             |
| 6.             | NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS, ie SERVICE TRENCHING, DETAILED EXCAVATION, FOOTINGS, RETAINING WALLS AND THE LIKE. CONTRACTOR IS TO ALLOW FOR REMOVAL OF ALL EXCESS MATERIAL GENERATED BY THE WORKS.              |
| 7.             | THE CONTRACTOR SHALL USE FINAL SURFACE LEVELS AND TYPICAL PAVEMENT DETAILS FOR ACTUAL EARTHWORKS LEVELS.                                                                                                                              |
| 8.             | APPROXIMATE BULK EARTHWORK VALUES AS FOLLOWS;                                                                                                                                                                                         |
| 8.1            | CUT 83,310 cu.m                                                                                                                                                                                                                       |
| 8.2            | FILL 119 cu.m                                                                                                                                                                                                                         |
| 8.3            | BALANCE 83,191 cu.m                                                                                                                                                                                                                   |
| 8.4            | NOTE: SITE STRIPPING VOLUMES HAVE NOT BEEN INCLUDED IN ABOVE CALCULATIONS.                                                                                                                                                            |
| 9.             | SHEARING WALLS HAVE BEEN ASSUMED FOR ALL EXCAVATIONS. CONTRACTOR TO CONFIRM ADEQUACY WITH GEOTECHNICAL ENGINEER.                                                                                                                      |



|     |        |     |     |
|-----|--------|-----|-----|
| 15  | 15 373 | 4.7 | 4.7 |
| 20  | 15 311 | 4.7 | 4.7 |
| 25  | 15 249 | 4.7 | 4.7 |
| 30  | 15 217 | 4.7 | 4.7 |
| 35  | 15 181 | 4.7 | 4.7 |
| 40  | 15 15  | 4.7 | 4.7 |
| 45  | 15 163 | 4.7 | 4.7 |
| 50  | 15 159 | 4.7 | 4.7 |
| 55  | 15 153 | 4.7 | 4.7 |
| 60  | 15 147 | 4.7 | 4.7 |
| 65  | 15 117 | 4.7 | 4.7 |
| 70  | 15 096 | 4.7 | 4.7 |
| 75  | 15 139 | 4.7 | 4.7 |
| 80  | 15 177 | 4.7 | 4.7 |
| 85  | 15 261 | 4.7 | 4.7 |
| 90  | 15 355 | 4.7 | 4.7 |
| 95  | 15 446 | 4.7 | 4.7 |
| 100 | 15 545 | 4.7 | 4.7 |
| 105 | 15 649 | 4.7 | 4.7 |
| 110 | 15 754 | 4.7 | 4.7 |

|        |        |     |  |
|--------|--------|-----|--|
| 0      | 15 158 |     |  |
| 5      | 15     |     |  |
| 10     | 15 22  | 4.7 |  |
| 15     | 15 216 | 4.7 |  |
| 20     | 15 658 | 4.7 |  |
| 25     | 14 994 | 4.7 |  |
| 30     | 14 968 | 4.7 |  |
| 35     | 14 976 | 4.7 |  |
| 40     | 14 872 | 4.7 |  |
| 45     | 14 829 | 4.7 |  |
| 50     | 14 833 | 4.7 |  |
| 55     | 14 813 | 4.7 |  |
| 60     | 14 707 | 4.7 |  |
| 65     | 14 864 |     |  |
| 69 245 | 14 706 |     |  |

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**BROOMFIELD STREET  
CABRAMATTA**

|                         |          |           |
|-------------------------|----------|-----------|
| JOB NUMBER              |          | 183030-01 |
| DRAWING NUMBER          | REVISION |           |
| DAC2201                 | 02       |           |
| DRAWING SHEET SIZE = A1 |          |           |

CLIENT

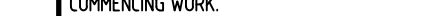
**MOON INVESTMENTS**

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ARCHITECT

**plus**  
architecture

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|         |
|---------|
| PROJECT |
|---------|

**BROOMFIELD STREET  
CABRAMATTA**







DRAWN: U MANDAL      DESIGNED: J CARROLL      JOB MANAGER: B LAWRENCE      VERIFIER:

| REVISION | DESCRIPTION                           | ISSUED | VER'D | APP'D | DATE     |
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| 01       | ISSUED FOR DEVELOPMENT APPLICATION    | UM     |       | JC    | 08.05.23 |
| 02       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |
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| CLIENT                                                                                  |
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| MOON INVESTMENTS                                                                        |
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| ARCHITECT                                                                           |
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| <div>plus<br/>architecture</div>                                                    |
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|  | <div>0246810m</div> <div>SCALE 1:200@ A1</div> <div>SCALE 1:200@ A1</div> <div>0246810m</div>                                                                                                                                                                                                           |



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| PROJECT                         |
|---------------------------------|
| BROOMFIELD STREET<br>CABRAMATTA |

| DRAWING TITLE                                                                                                 |
|---------------------------------------------------------------------------------------------------------------|
| CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br><br>BULK EARTHWORKS CUT TO FILL<br>SECTIONS- SHEET 03 |

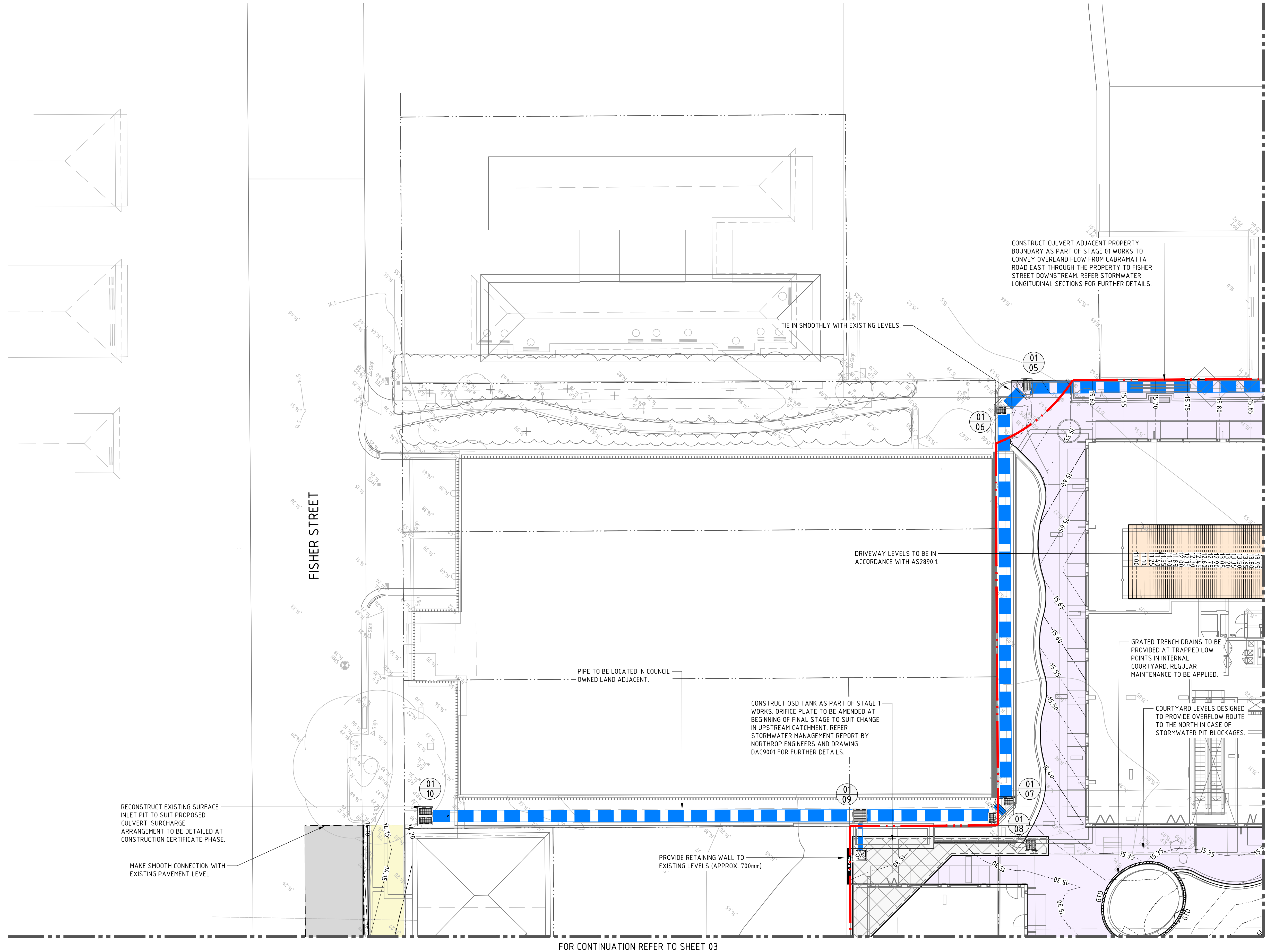
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| JOB NUMBER              |          |
| 183030-01               |          |
| DRAWING NUMBER          | REVISION |
| DAC2203                 | 02       |
| DRAWING SHEET SIZE = A1 |          |

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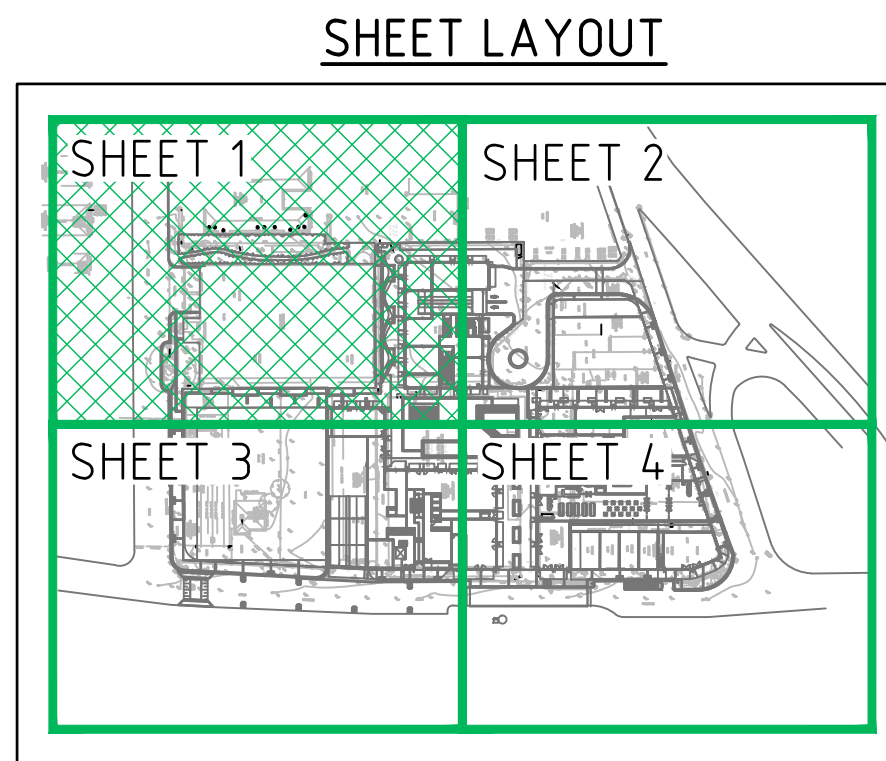


DRAWN: U. MANDAL  
DESIGNED: J. CARROLL  
JOB MANAGER: B. LAWRENCE  
VERIFIER:



**LEGEND**

- SITE BOUNDARY LINE
- EXISTING BOUNDARY LINE
- PROPOSED KERB
- SAWCUT AND PAVEMENT INFILL
- K0 KERB ONLY
- KG KERB AND GUTTER
- VC VEHICULAR CROSSING
- KR KERB RAMP
- PROPOSED CONTOURS
- EXISTING CONTOURS
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- STORMWATER PIPE
- GRATED TRENCH DRAIN
- ON-SITE DETENTION TANK
- STORMWATER PIT TAG LINE ID / STRUCTURE No.
- PODIUM PAVEMENT
- PEDESTRIAN PAVEMENT - REFER FAIRFIELD CITY COUNCIL DETAIL P-1
- FLEXIBLE PAVEMENT
- RIGID PAVEMENT - (CONSTRUCTED IN ACCORDANCE WITH FAIRFIELD CITY COUNCIL TYPICAL DETAIL S-1)



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| 03       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |

|        |                  |
|--------|------------------|
| CLIENT | MOON INVESTMENTS |
|--------|------------------|

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| ARCHITECT                                                                        | plus<br>architecture |
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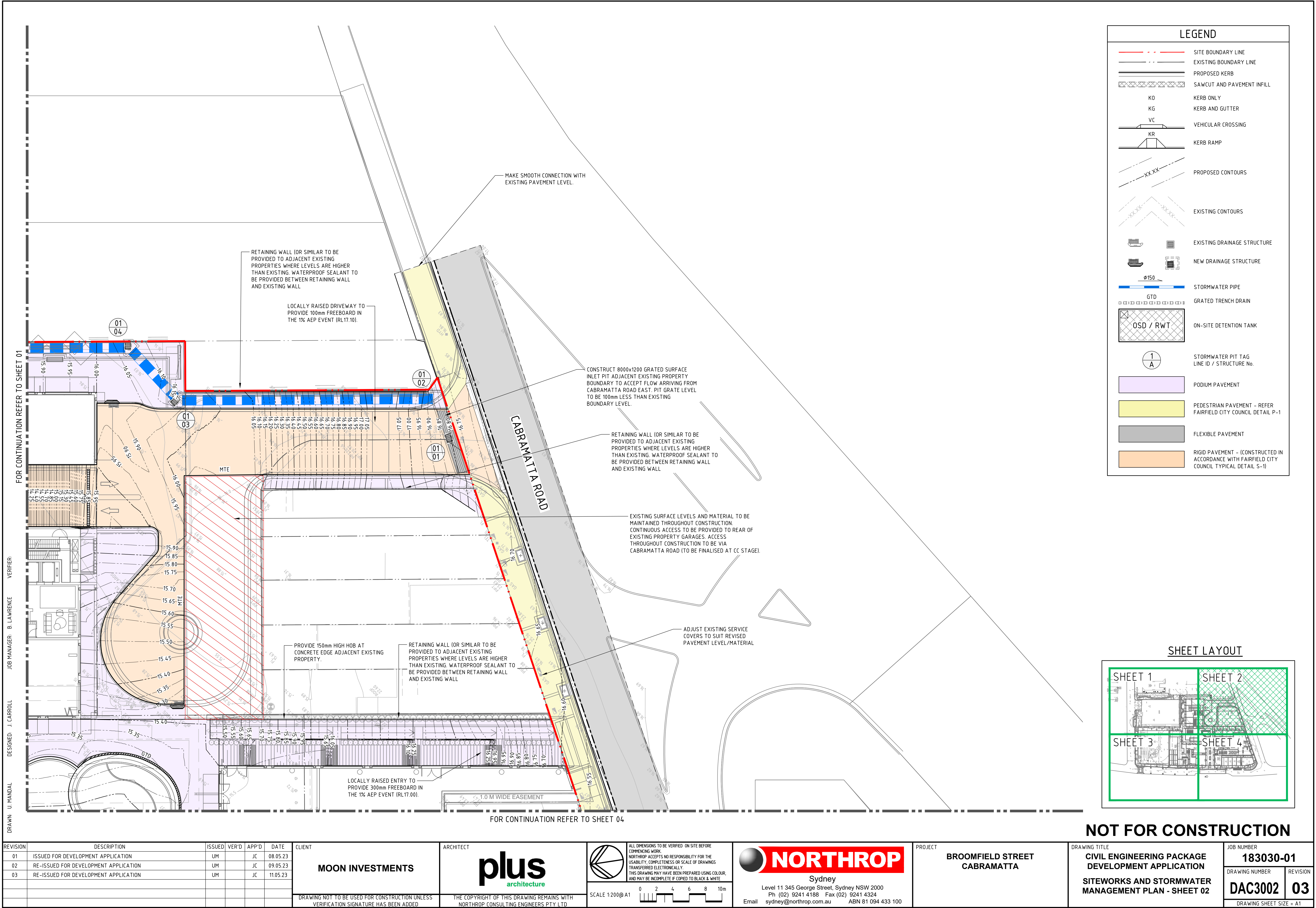
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|         |                                 |
|---------|---------------------------------|
| PROJECT | BROOMFIELD STREET<br>CABRAMATTA |
|---------|---------------------------------|

|               |                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------|
| DRAWING TITLE | CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br>SITEWORKS AND STORMWATER<br>MANAGEMENT PLAN - SHEET 01 |
|---------------|----------------------------------------------------------------------------------------------------------------|

|                         |           |
|-------------------------|-----------|
| JOB NUMBER              | 183030-01 |
| DRAWING NUMBER          | DAC3001   |
| REVISION                | 03        |
| DRAWING SHEET SIZE = A1 |           |







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DESIGNED: J CARROLL  
JOB MANAGER: B LAWRENCE  
VERIFIER:

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| 03       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |
|          |                                       |        |       |       |          |
|          |                                       |        |       |       |          |
|          |                                       |        |       |       |          |

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| CLIENT                                                                                  | ARCHITECT                   |
| MOON INVESTMENTS                                                                        | <b>plus</b><br>architecture |
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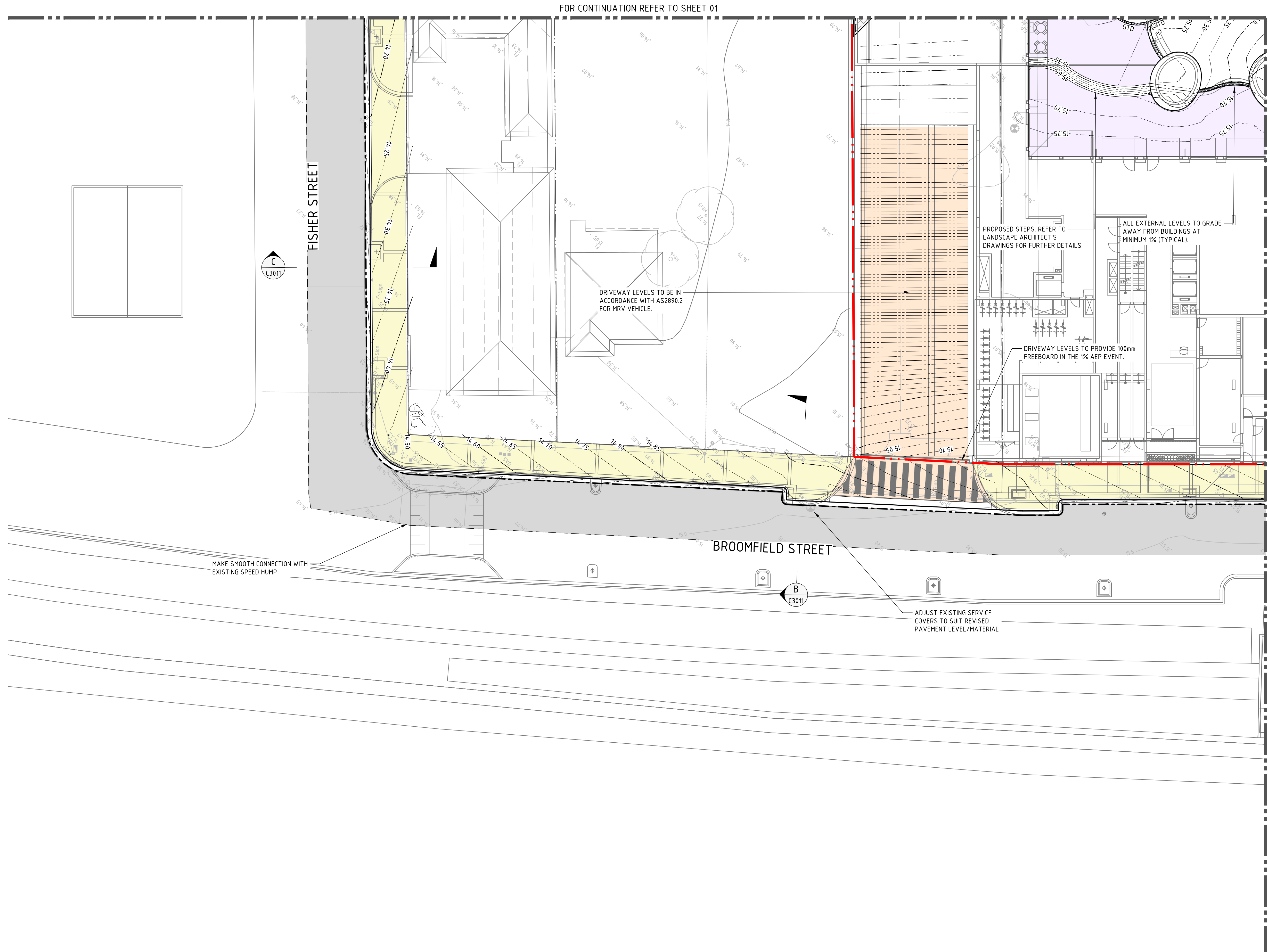
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| SCALE 1:200@A1                                                                                                                                                                                                                                                                                          |
| 0 2 4 6 8 10m                                                                                                                                                                                                                                                                                           |

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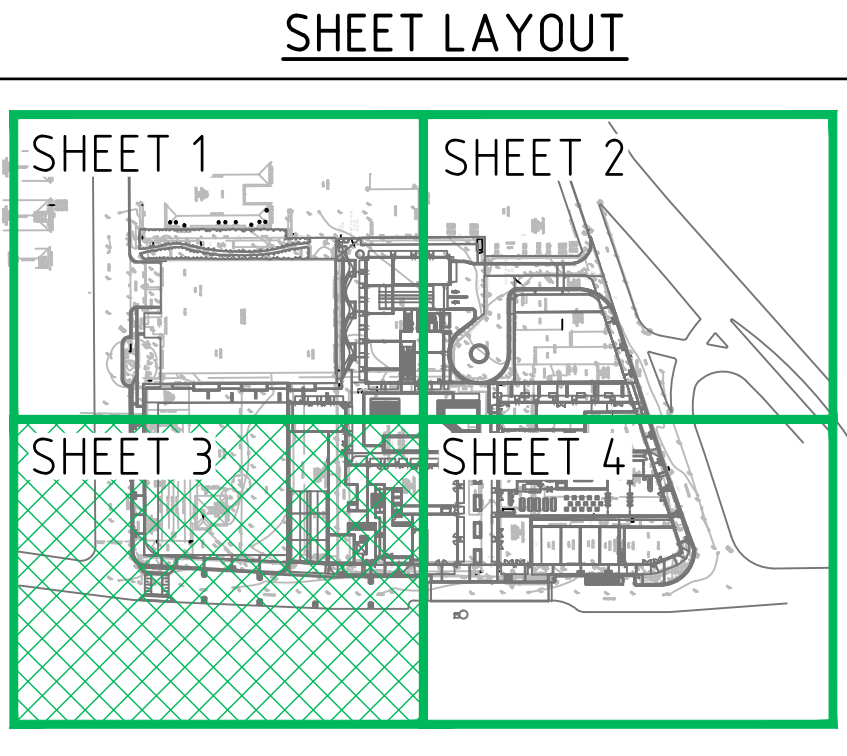
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| PROJECT                         |
| BROOMFIELD STREET<br>CABRAMATTA |

|                                                                                                                |
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| DRAWING TITLE                                                                                                  |
| CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br>SITEWORKS AND STORMWATER<br>MANAGEMENT PLAN - SHEET 03 |

|                         |           |
|-------------------------|-----------|
| JOB NUMBER              | 183030-01 |
| DRAWING NUMBER          | REVISION  |
| DAC3003                 | 03        |
| DRAWING SHEET SIZE = A1 |           |

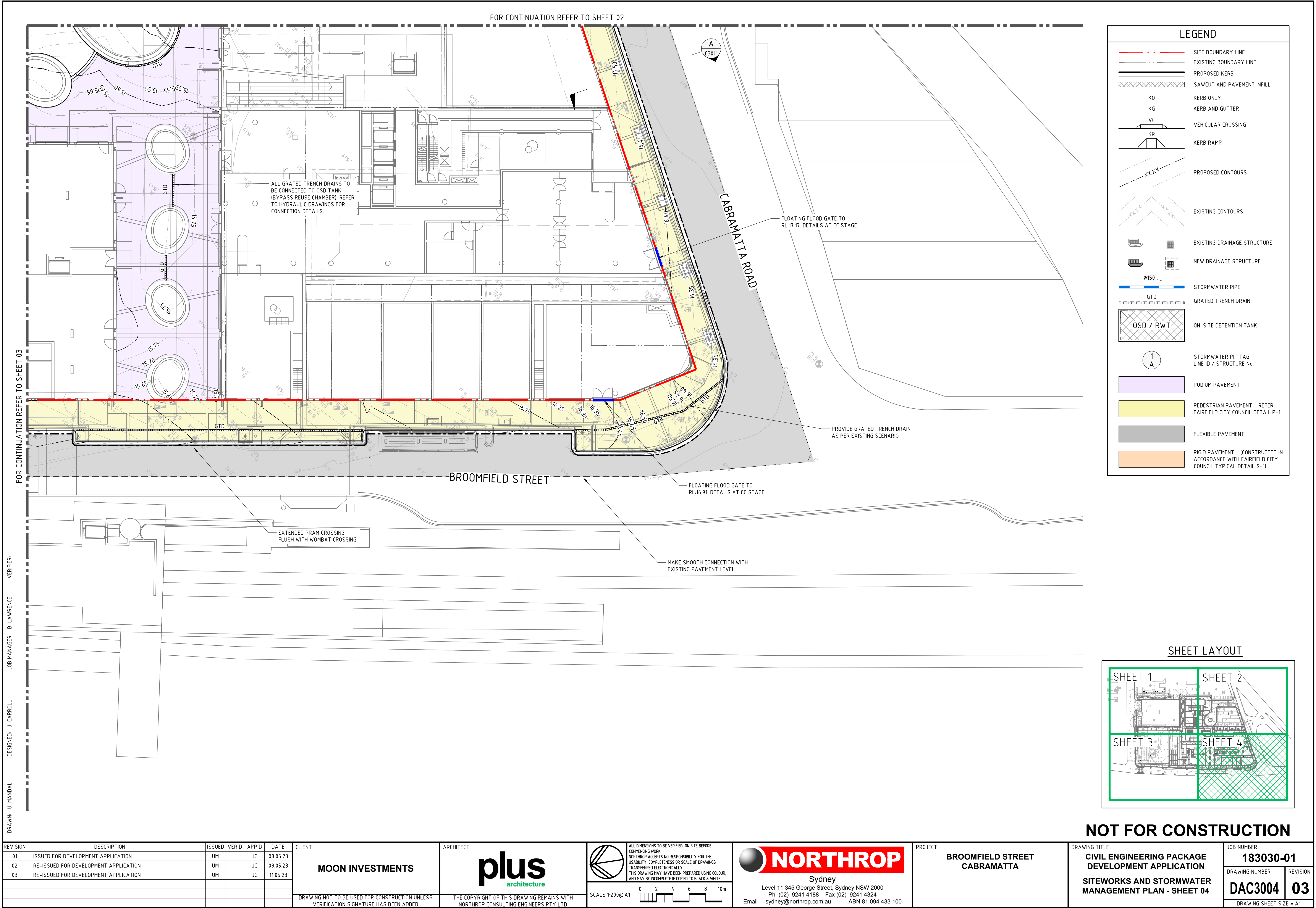


| LEGEND |                                                                                                   |
|--------|---------------------------------------------------------------------------------------------------|
|        | SITE BOUNDARY LINE                                                                                |
|        | EXISTING BOUNDARY LINE                                                                            |
|        | PROPOSED KERB                                                                                     |
|        | SAWCUT AND PAVEMENT INFILL                                                                        |
| K0     | KERB ONLY                                                                                         |
| KG     | KERB AND GUTTER                                                                                   |
| VC     | VEHICULAR CROSSING                                                                                |
| KR     | KERB RAMP                                                                                         |
|        | PROPOSED CONTOURS                                                                                 |
|        | EXISTING CONTOURS                                                                                 |
|        | EXISTING DRAINAGE STRUCTURE                                                                       |
|        | NEW DRAINAGE STRUCTURE                                                                            |
|        | STORMWATER PIPE                                                                                   |
|        | GRATED TRENCH DRAIN                                                                               |
|        | ON-SITE DETENTION TANK                                                                            |
|        | STORMWATER PIT TAG<br>LINE ID / STRUCTURE No.                                                     |
|        | PODIUM PAVEMENT                                                                                   |
|        | PEDESTRIAN PAVEMENT - REFER<br>FAIRFIELD CITY COUNCIL DETAIL P-1                                  |
|        | FLEXIBLE PAVEMENT                                                                                 |
|        | RIGID PAVEMENT - (CONSTRUCTED IN<br>ACCORDANCE WITH FAIRFIELD CITY<br>COUNCIL TYPICAL DETAIL S-1) |



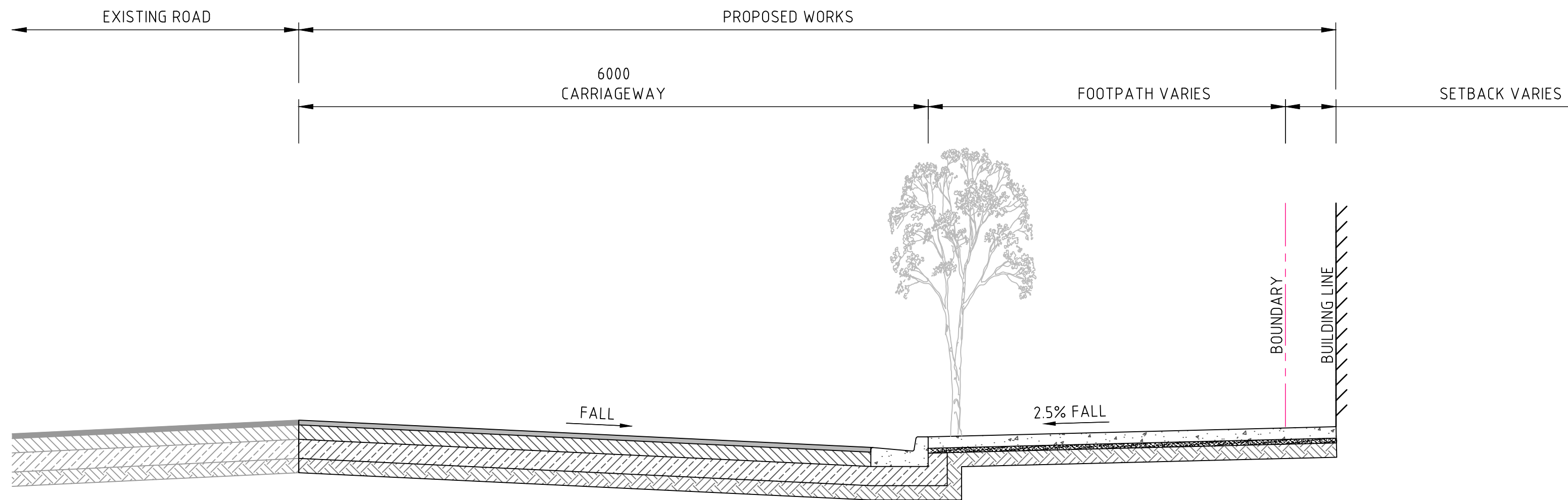
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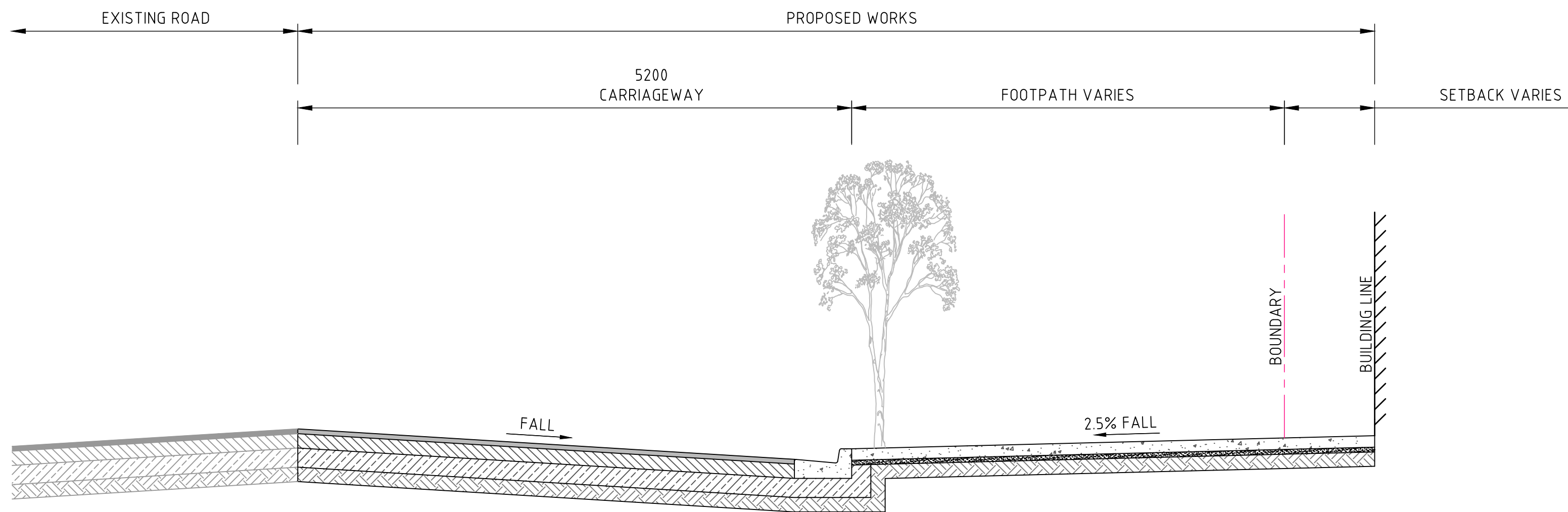




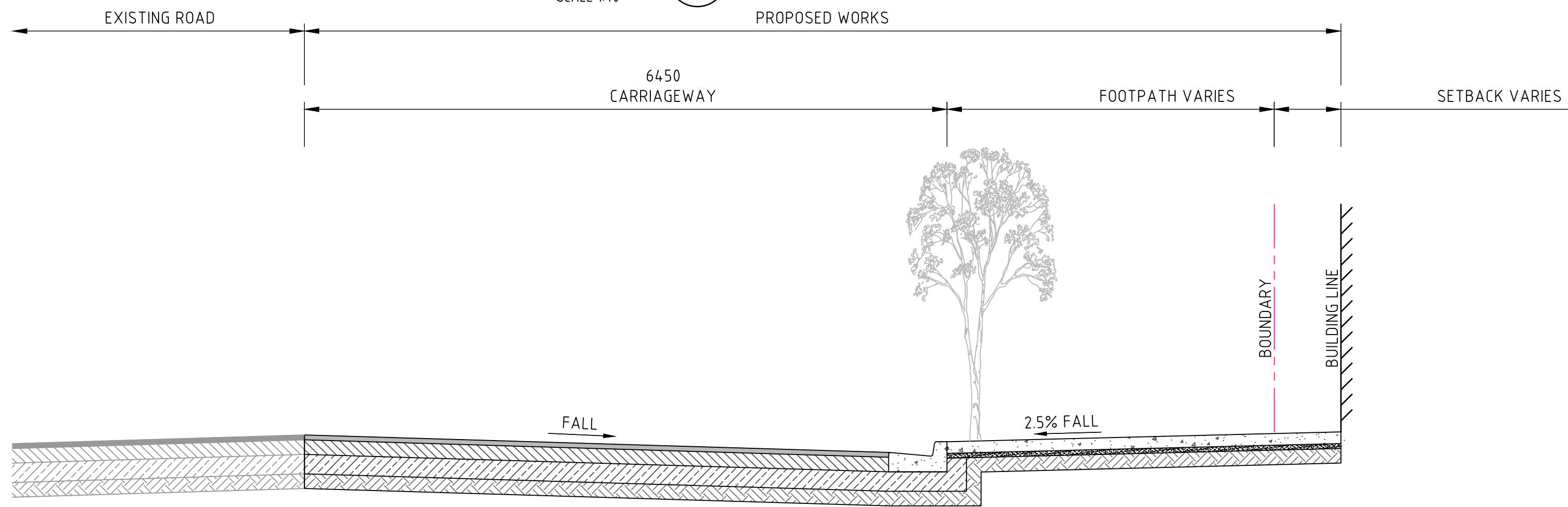
DRAWN: U MANDAL  
DESIGNED: J CARROLL  
JOB MANAGER: B LAWRENCE  
VERIFIER:



CABRAMATTA ROAD EAST TYPICAL SECTION  
SECTION A  
SCALE 1:40  
C04.01



BROOMFIELD STREET TYPICAL SECTION  
SECTION B  
SCALE 1:40  
C04.01



FISHER STREET TYPICAL SECTION  
SECTION C  
SCALE 1:40  
C04.01

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| REVISION | DESCRIPTION                           | ISSUED | VER'D | APP'D | DATE     |
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|--------------------------------------------------------------------------------------|------------------|
| CLIENT                                                                               | MOON INVESTMENTS |
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| ARCHITECT                                                                        | plus<br>architecture |
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| SCALE 1:40@A1                                                                                                                                                                                                                                                                               |
| 0.0 0.4 0.8 1.2 1.6 2.0m                                                                                                                                                                                                                                                                    |

|                                                 |
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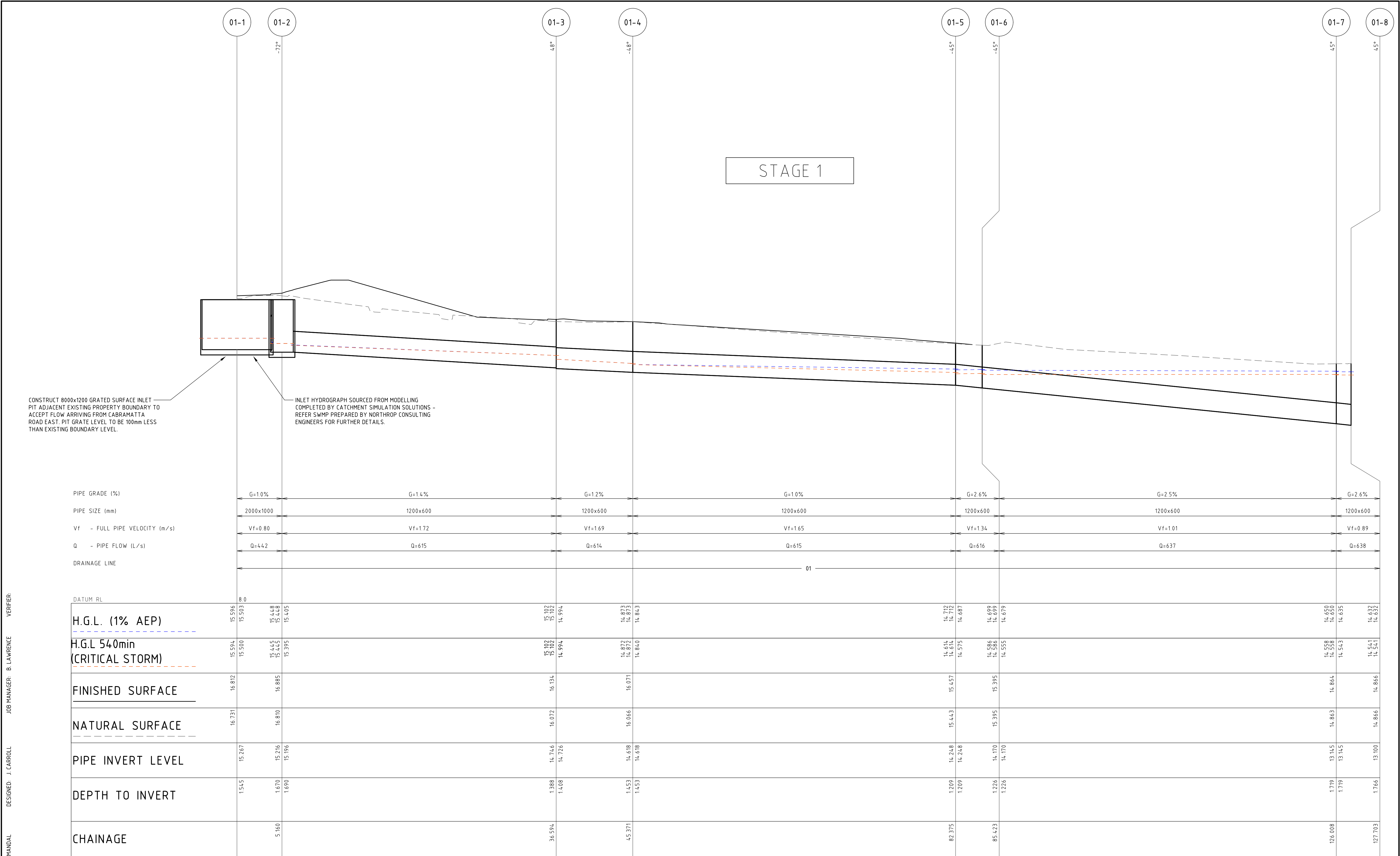
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| PROJECT | BROOMFIELD STREET<br>CABRAMATTA |
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| DRAWING TITLE | CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br>TYPICAL SECTIONS |
|---------------|--------------------------------------------------------------------------|

|                         |           |
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| JOB NUMBER              | 183030-01 |
| DRAWING NUMBER          | DAC3011   |
| REVISION                | 02        |
| DRAWING SHEET SIZE = A1 |           |



DRAWN: U MANDAL    DESIGNED: J CARROLL    JOB MANAGER: B LAWRENCE    VERIFIER:



LINE 01

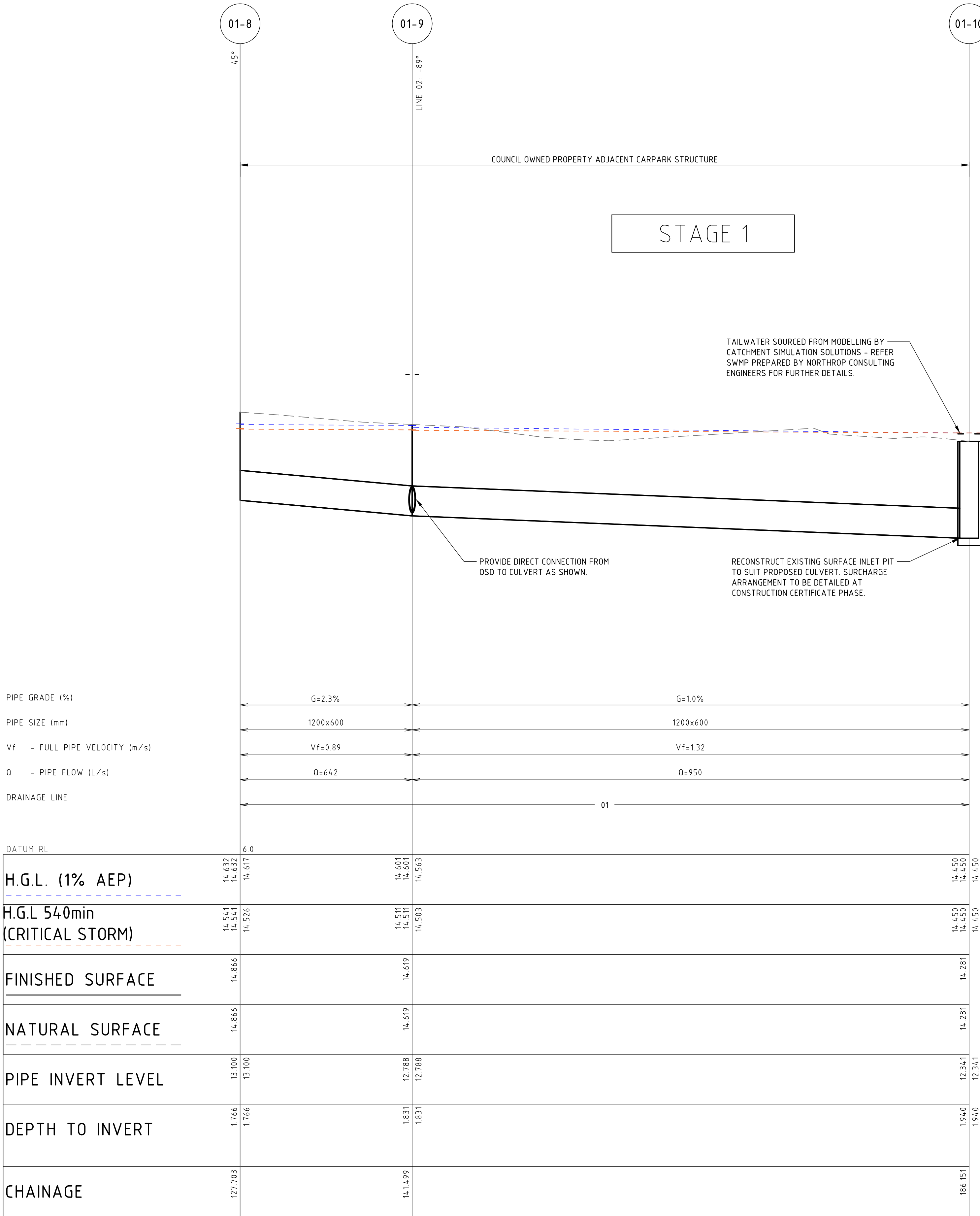
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|----------|---------------------------------------|--------|-------|-------|----------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------|------------|
| 01       | ISSUED FOR DEVELOPMENT APPLICATION    | UM     |       | JC    | 08.05.23 | MOON INVESTMENTS                                                                        |  | <br>SCALE 1:50@A1<br><br>SCALE 1:200@A1                                                                          | BROOMFIELD STREET<br>CABRAMATTA |                                                                                                                                                                                                                                                      | CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br><br>STAGE 1 STORMWATER<br>LONGITUDINAL SECTIONS - SHEET 01 | 183030-01               |            |
| 02       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |                                                                                         |                                                                                       |                                                                                                                                                                                                                                                                                            |                                 |                                                                                                                                                                                                                                                      |                                                                                                                    | DRAWING NUMBER          | REVISION   |
|          |                                       |        |       |       |          |                                                                                         |                                                                                       |                                                                                                                                                                                                                                                                                            |                                 |                                                                                                                                                                                                                                                      |                                                                                                                    | DAC4101                 | 02         |
|          |                                       |        |       |       |          |                                                                                         |                                                                                       |                                                                                                                                                                                                                                                                                            |                                 |                                                                                                                                                                                                                                                      |                                                                                                                    | DRAWING SHEET SIZE = A1 |            |
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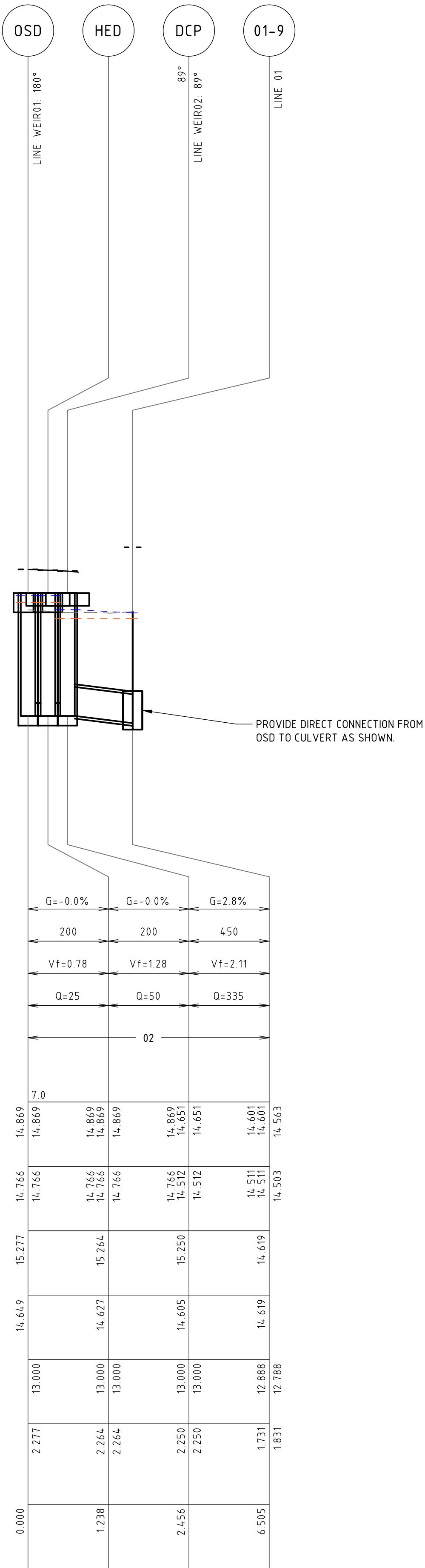
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Plotted By: JANGUS FALLINS  
Date: 16/04/2020 2:24 PM



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LINE 01



LINE 02

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|-----------|-------------------|
| CLIENT    | MOON INVESTMENTS  |
| ARCHITECT | plus architecture |
| DATE      | 11.05.23          |
| ISSUED    | UM                |
| VER'D     |                   |
| APP'D     | JC                |
| DATE      | 08.05.23          |

|           |                   |
|-----------|-------------------|
| ARCHITECT | plus architecture |
| DATE      | 11.05.23          |
| ISSUED    | UM                |
| VER'D     |                   |
| APP'D     | JC                |
| DATE      | 08.05.23          |

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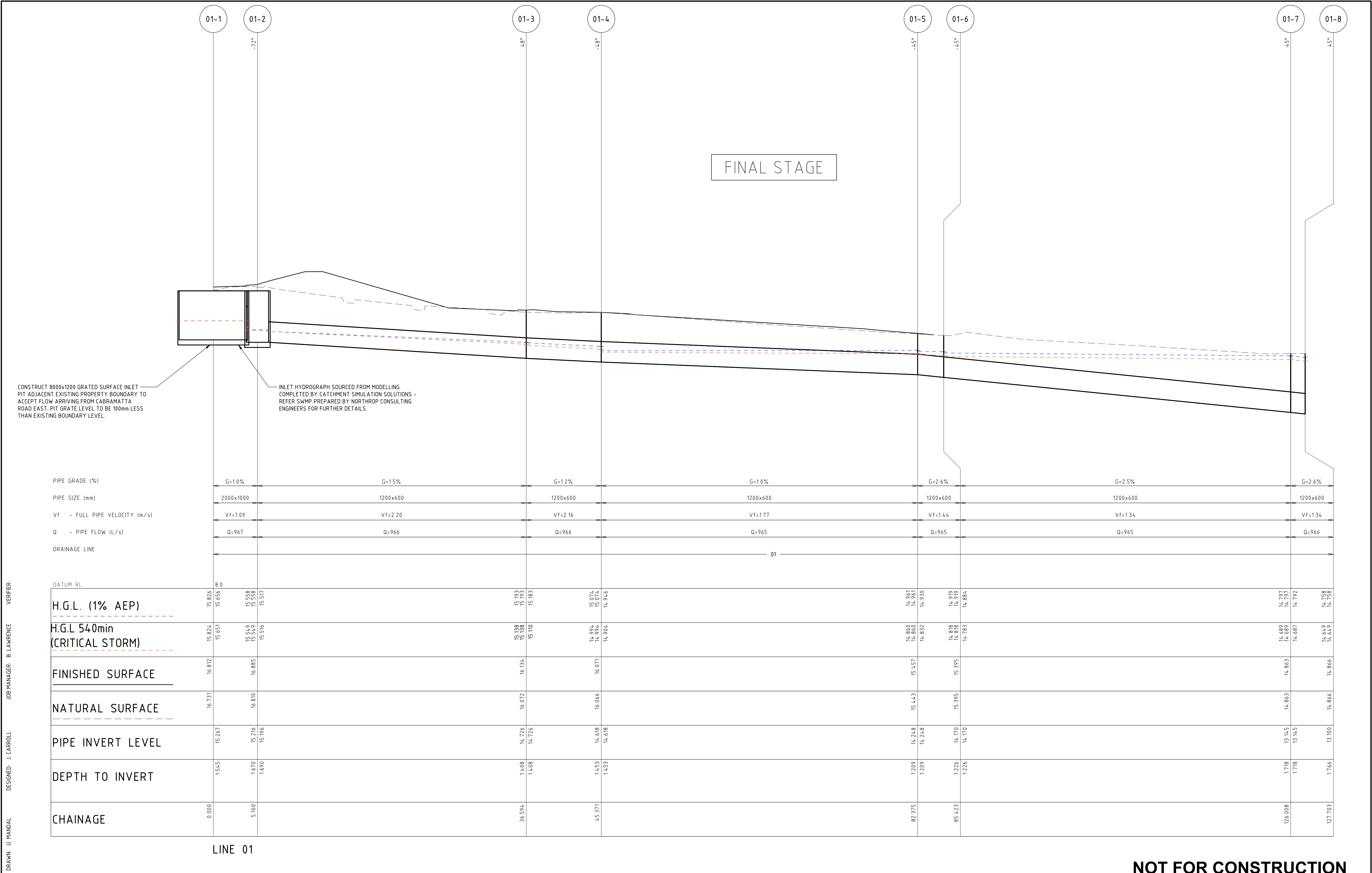
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|         |                                 |
|---------|---------------------------------|
| PROJECT | BROOMFIELD STREET<br>CABRAMATTA |
|---------|---------------------------------|

|               |                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------|
| DRAWING TITLE | CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br>STAGE 1 STORMWATER<br>LONGITUDINAL SECTIONS - SHEET 02 |
|---------------|----------------------------------------------------------------------------------------------------------------|

|                    |           |
|--------------------|-----------|
| JOB NUMBER         | 183030-01 |
| DRAWING NUMBER     | DAC4102   |
| REVISION           | 02        |
| DRAWING SHEET SIZE | A1        |





REVISION

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| 01 | ISSUED FOR DEVELOPMENT APPLICATION    | UM | JC | 08.05.23 |
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APP'D

DATE

CLIENT

MOON INVESTMENTS

ARCHITECT

plus  
architecture

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SCALE 1:50@A1

SCALE 1:200@A1

0 0.5 1.0 1.5 2.0 2.5m

0 2 4 6 8 10m

NORTHROP

Sydney

Level 11 345 George Street, Sydney NSW 2000

Ph (02) 9241 4188 Fax (02) 9241 4324

Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

BROOMFIELD STREET  
CABRAMATTA

DRAWING TITLE

CIVIL ENGINEERING PACKAGE  
DEVELOPMENT APPLICATION  
STAGE 2 STORMWATER  
LONGITUDINAL SECTIONS - SHEET 01

JOB NUMBER

183030-01

DRAWING NUMBER

DAC4103

REVISION

02

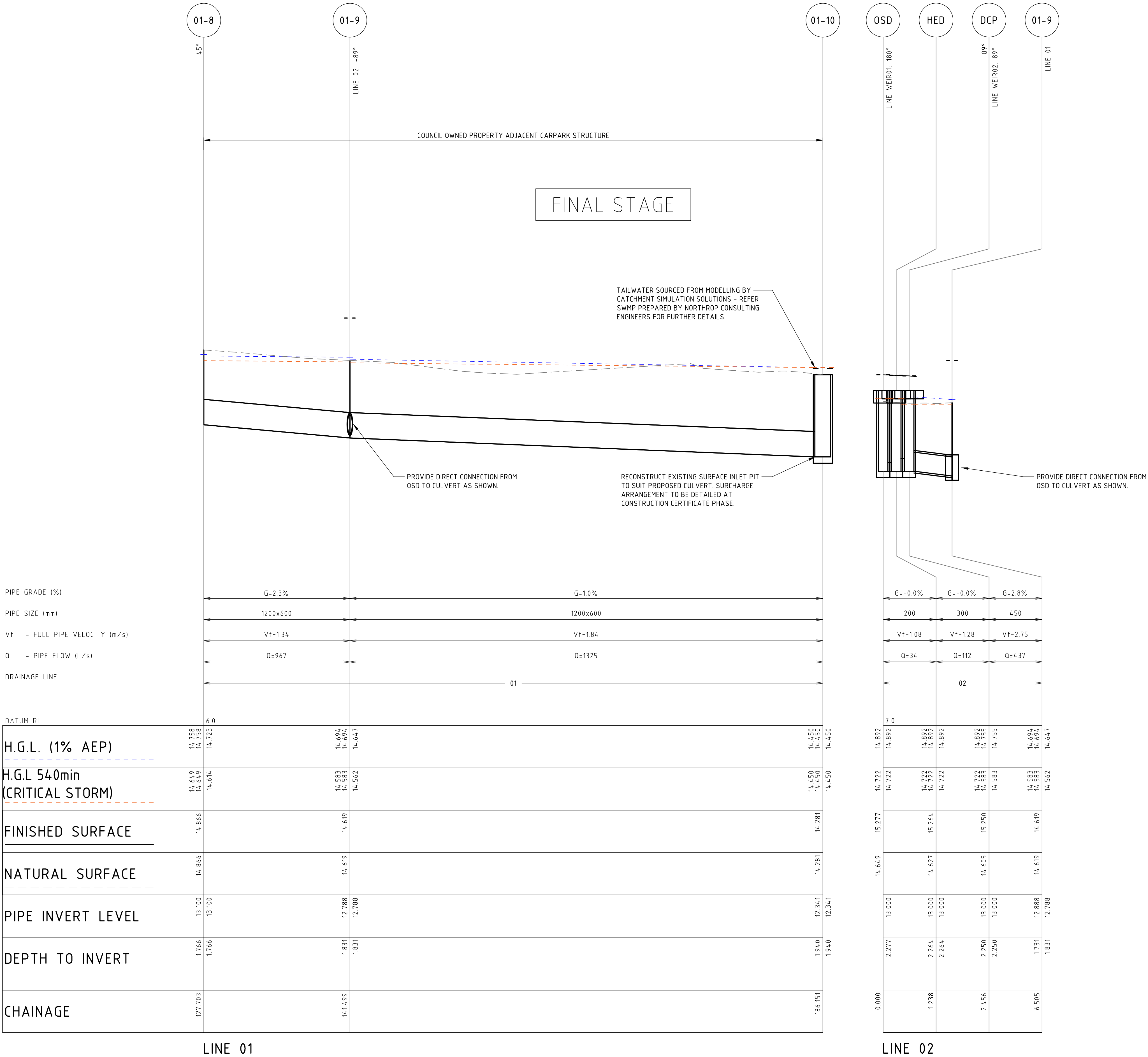
DRAWING SHEET SIZE = A1

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| 02       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |
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| CLIENT                                                                               | MOON INVESTMENTS |
| DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED |                  |

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| ARCHITECT                                                                        | plus<br>architecture |
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| SCALE 1:50@A1<br>SCALE 1:200@A1 | <p>The image shows two horizontal scale bars. The top bar is for a scale of 1:50 at A1 size, with markings at 0.0, 0.5, 1.0, 1.5, 2.0, and 2.5m. The bottom bar is for a scale of 1:200 at A1 size, with markings at 0, 2, 4, 6, 8, and 10m. Both bars are represented by a thick black line with vertical tick marks at each interval.</p> |

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| Level 11 345 George Street, Sydney NSW 2000<br>Ph (02) 9241 4188 Fax (02) 9241 4324<br>Email sydney@northrop.com.au ABN 81 094 433 100 |

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| PROJECT | BROOMFIELD STREET<br>CABRAMATTA |
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| DRAWING TITLE | CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br>STAGE 2 STORMWATER<br>LONGITUDINAL SECTIONS - SHEET 02 |
|---------------|----------------------------------------------------------------------------------------------------------------|

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| JOB NUMBER         | 183030-01 |
| DRAWING NUMBER     | DAC4104   |
| REVISION           | 02        |
| DRAWING SHEET SIZE | A1        |

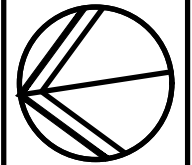
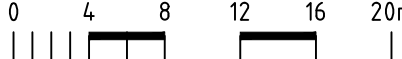


DRAWN: U MANDAL  
DESIGNED: J CARROLL  
JOB MANAGER: B LAWRENCE  
VERIFIER:

| REVISION | DESCRIPTION                           | ISSUED | VER'D | APP'D | DATE     |
|----------|---------------------------------------|--------|-------|-------|----------|
| 01       | ISSUED FOR DEVELOPMENT APPLICATION    | UM     |       | JC    | 08.05.23 |
| 02       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |
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| CLIENT                                                                                  | MOON INVESTMENTS |
| DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS<br>VERIFICATION SIGNATURE HAS BEEN ADDED |                  |

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| ARCHITECT                                                                           | <b>plus</b><br>architecture |
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| SCALE 1:400@ A1                                                                       |                                                                                                                                                                                                                    |

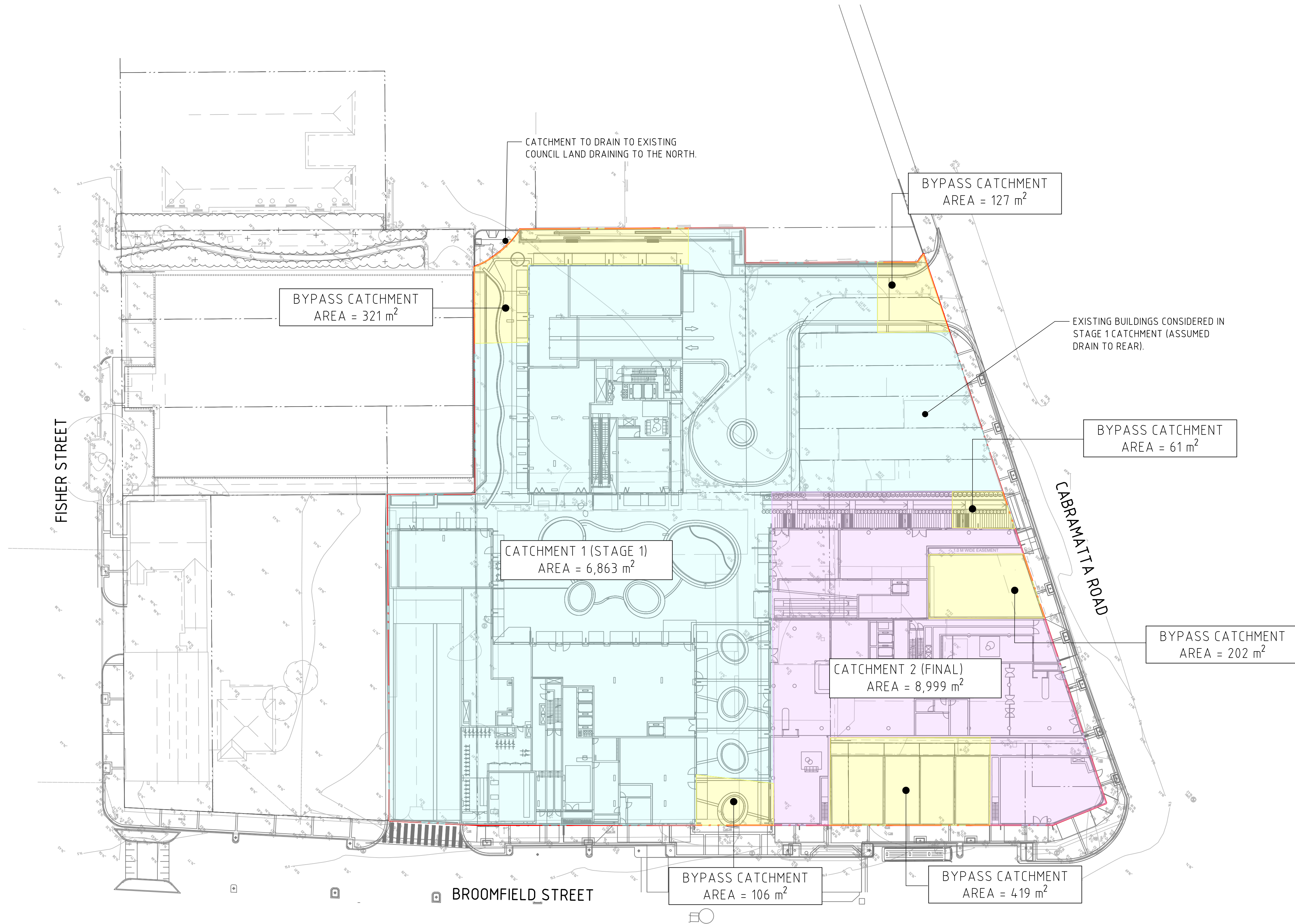
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|                                                                                                         |
| Sydney<br>Level 11 345 George Street, Sydney NSW 2000<br>Ph (02) 9241 4188 Fax (02) 9241 4324<br>Email <a href="mailto:sydney@northrop.com.au">sydney@northrop.com.au</a> ABN 81 094 433 100 |

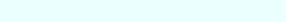
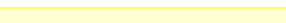
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| PROJECT | BROOMFIELD STREET<br>CABRAMATTA |
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| DRAWING TITLE | CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br>STORMWATER CATCHMENT PLAN |
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| JOB NUMBER              | 183030-01 |
| DRAWING NUMBER          | DAC4201   |
| REVISION                | 02        |
| DRAWING SHEET SIZE = A1 |           |

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| LEGEND                                                                              |                                |
|-------------------------------------------------------------------------------------|--------------------------------|
|  | SITE BOUNDARY LINE             |
|  | EXISTING CONTOURS              |
|  | CATCHMENT BOUNDARY             |
|  | EXISTING DRAINAGE STRUCTURE    |
|  | NEW DRAINAGE STRUCTURE         |
|  | STORMWATER CATCHMENT - STAGE 1 |
|  | STORMWATER CATCHMENT - STAGE 2 |
|  | BYPASS CATCHMENT               |

Printed By : ANGUS FALLINS  
Found : c:\2625\Broomfield\Northrop\SYN183030-01\Broomfield St Cabramatta\_A01\183030-01-CAD\19-183030-01\_DAC201.dwg



DRAWN: U MANDAL  
DESIGNED: J CARROLL  
JOB MANAGER: B LAWRENCE  
VERIFIER:

| REVISION | DESCRIPTION                           | ISSUED | VER'D | APP'D | DATE     |
|----------|---------------------------------------|--------|-------|-------|----------|
| 01       | ISSUED FOR DEVELOPMENT APPLICATION    | UM     |       | JC    | 08.05.23 |
| 02       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |
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| CLIENT                                                                                  | ARCHITECT            |
| MOON INVESTMENTS                                                                        | plus<br>architecture |
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| SCALE 1:400@A1                                                                                                                                                                                                                                                                                          |
| 0 4 8 12 16 20m                                                                                                                                                                                                                                                                                         |

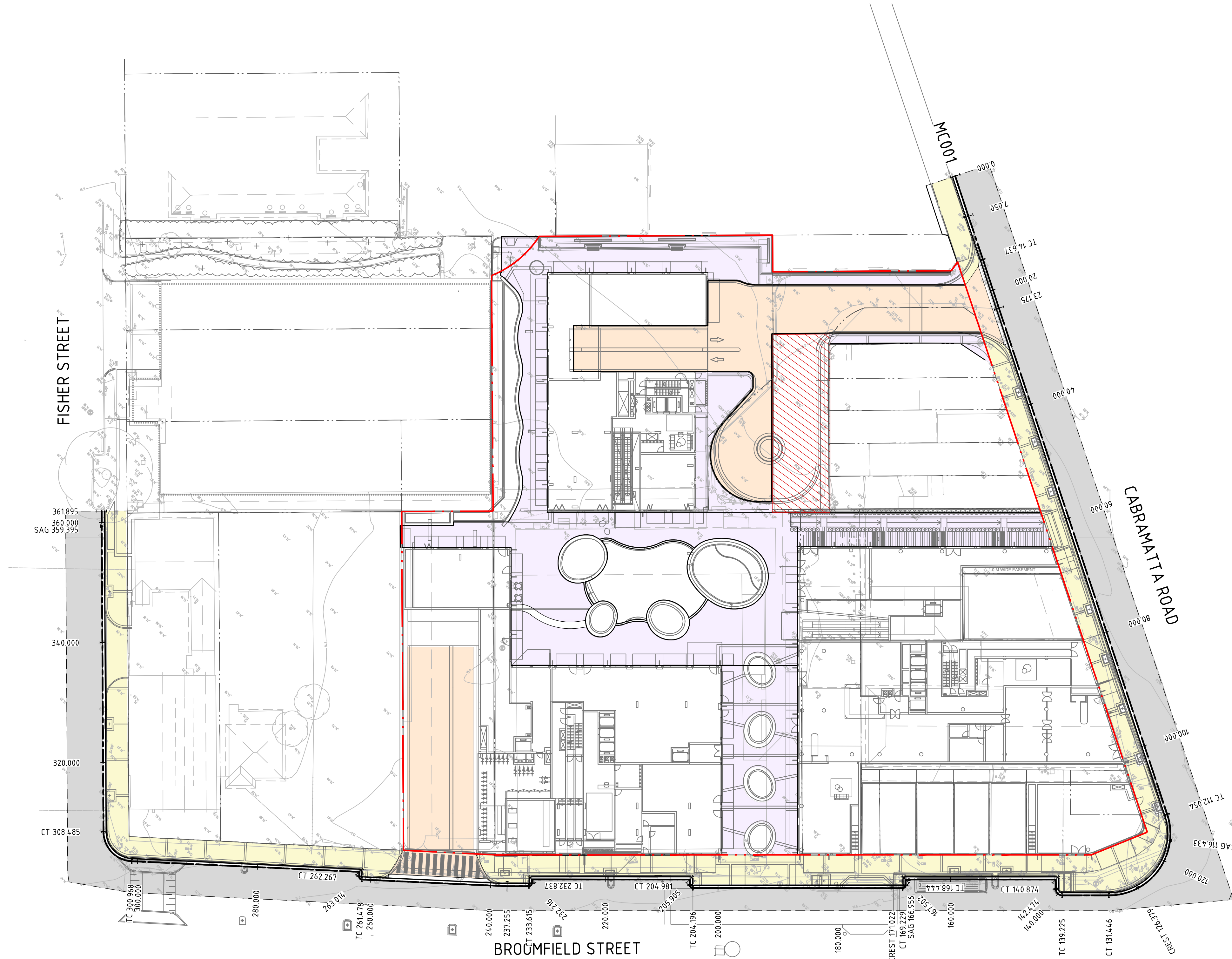
|                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| PROJECT                         |
| BROOMFIELD STREET<br>CABRAMATTA |

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| DRAWING TITLE                                                                  |
| CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br>ALIGNMENT CONTROL PLAN |

|                         |           |
|-------------------------|-----------|
| JOB NUMBER              | 183030-01 |
| DRAWING NUMBER          | REVISION  |
| DAC5001                 | 02        |
| DRAWING SHEET SIZE = A1 |           |

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Drawn: U Mandal      Designed: J Carroll      Job Manager: B Lawrence      Verifier:

| Revision | Description                           | Issued | Ver'd | App'd | Date     |
|----------|---------------------------------------|--------|-------|-------|----------|
| 01       | ISSUED FOR DEVELOPMENT APPLICATION    | UM     |       | JC    | 08.05.23 |
| 02       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |
|          |                                       |        |       |       |          |
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| Client                                                                                  | Architect                        |
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| MOON INVESTMENTS                                                                        | <div>plus<br/>architecture</div> |
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| Client                                                                              | Architect                        |
|-------------------------------------------------------------------------------------|----------------------------------|
| MOON INVESTMENTS                                                                    | <div>plus<br/>architecture</div> |
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| SCALE 1:80 @ A1                                                                                                                                                                                                                                                                                        | 0.0 0.8 1.6 2.4 3.2 4.0m |
| SCALE 1:400 @ A1                                                                                                                                                                                                                                                                                       | 0 4 8 12 16 20m          |

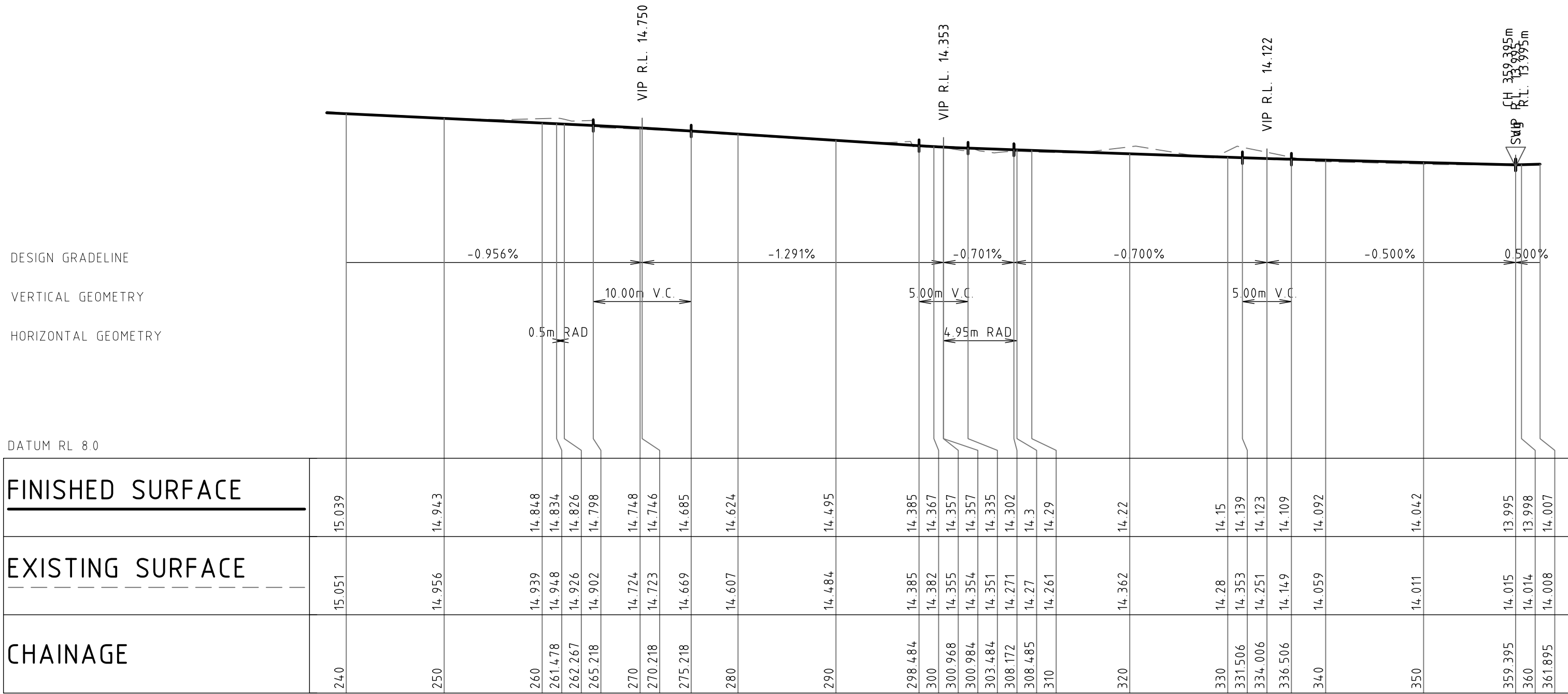
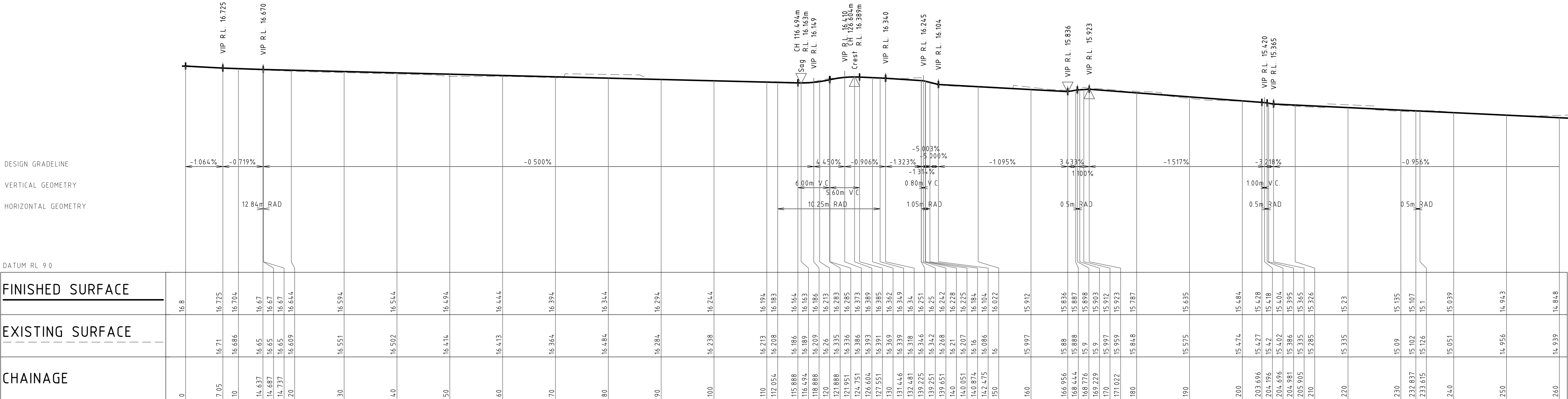
**NORTHROP**

Sydney  
Level 11 345 George Street, Sydney NSW 2000  
Ph (02) 9241 4188 Fax (02) 9241 4324  
Email [sydney@northrop.com.au](mailto:sydney@northrop.com.au) ABN 81 094 433 100

| Project                         |
|---------------------------------|
| BROOMFIELD STREET<br>CABRAMATTA |

| Drawing Title                                                                 |
|-------------------------------------------------------------------------------|
| CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION<br>LONGITUDINAL SECTIONS |

|                           |                |
|---------------------------|----------------|
| JOB NUMBER<br>183030-01   |                |
| DRAWING NUMBER<br>DAC5101 | REVISION<br>02 |
| DRAWING SHEET SIZE = A1   |                |



## LONGITUDINAL SECTION ALONG MC001

HORIZONTAL SCALE 1:400 @ A1  
VERTICAL SCALE 1:80 @ A1

## LONGITUDINAL SECTION ALONG MC001

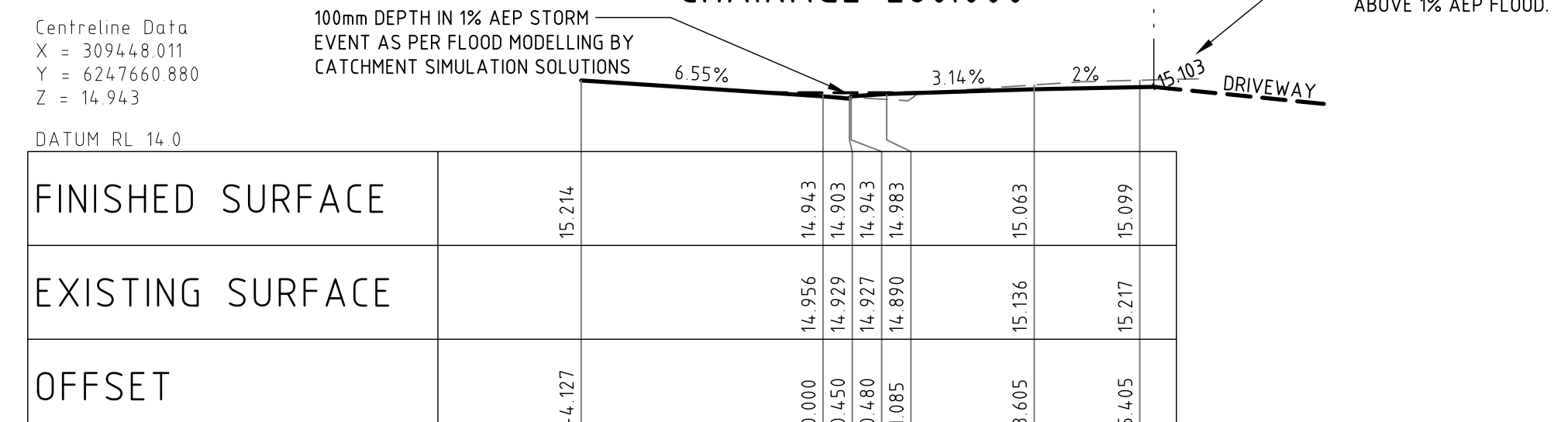
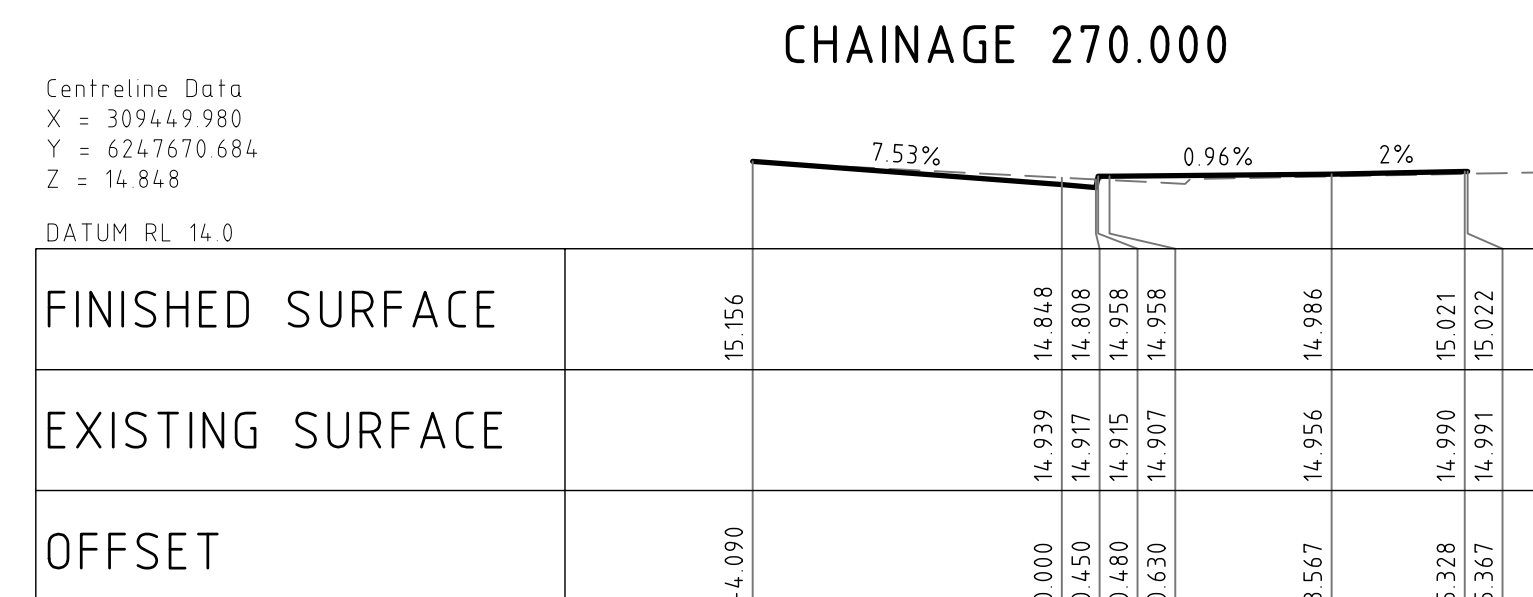
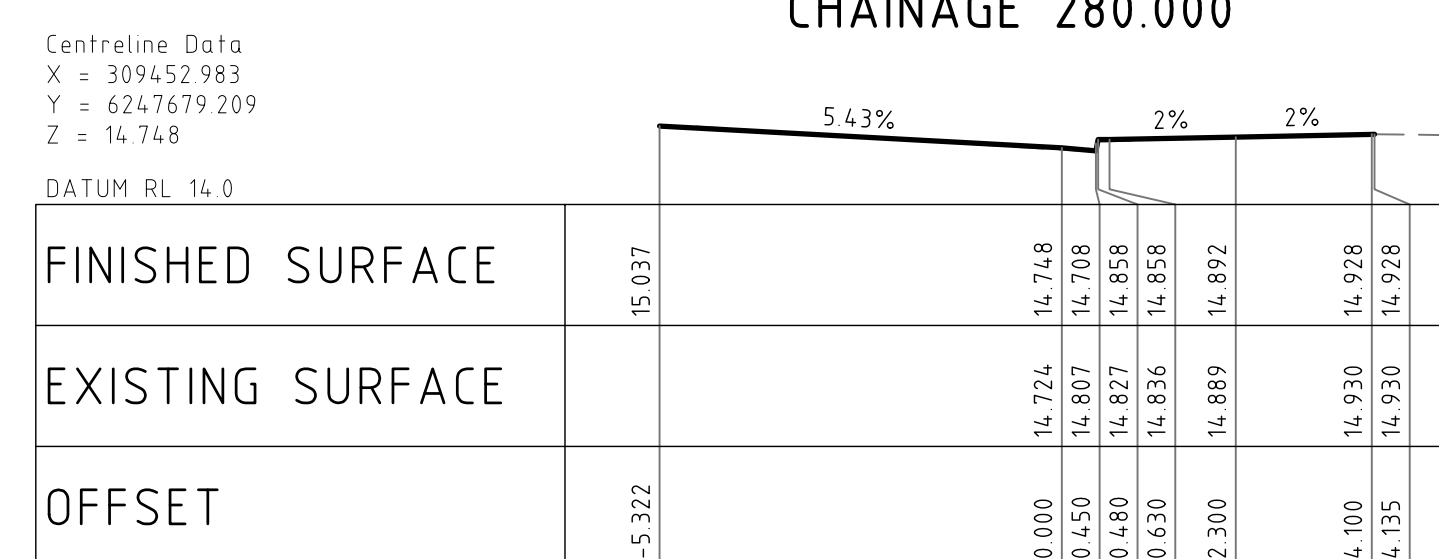
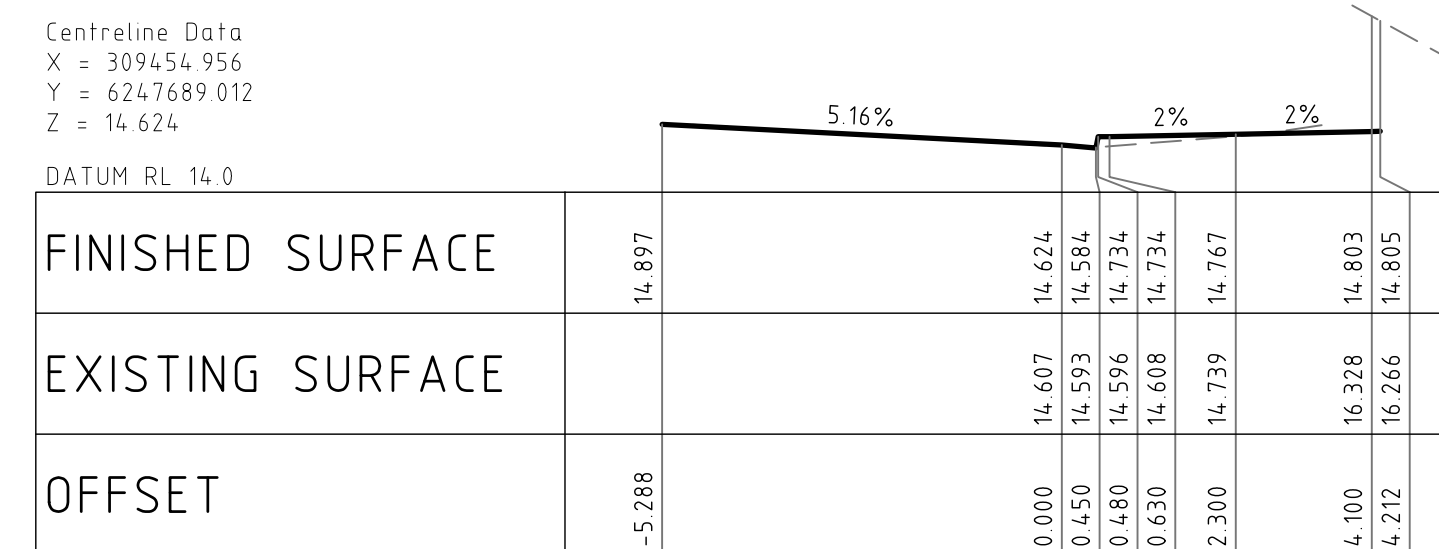
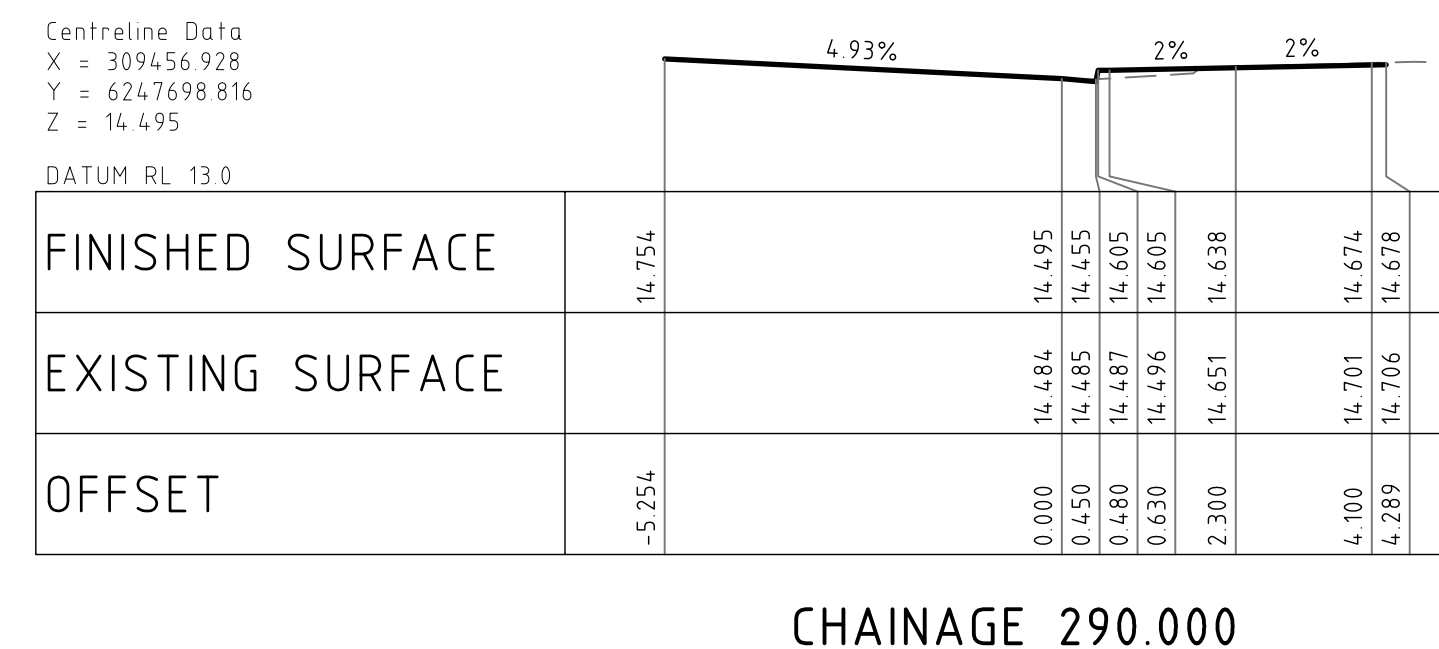
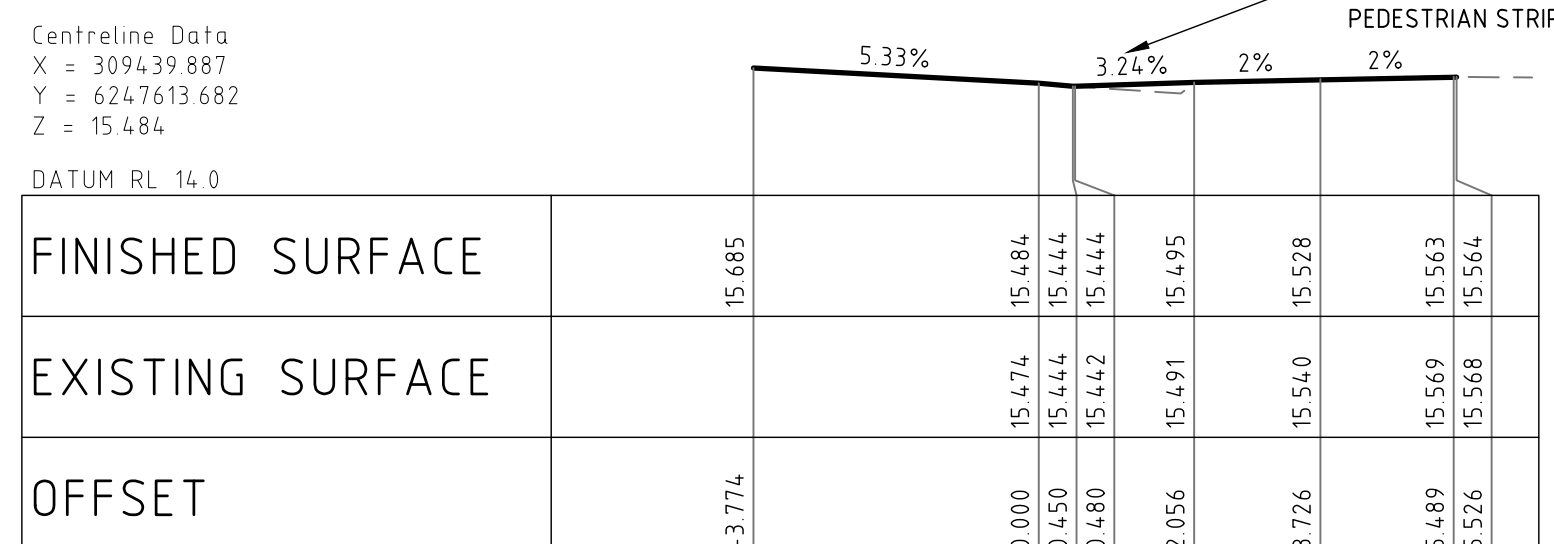
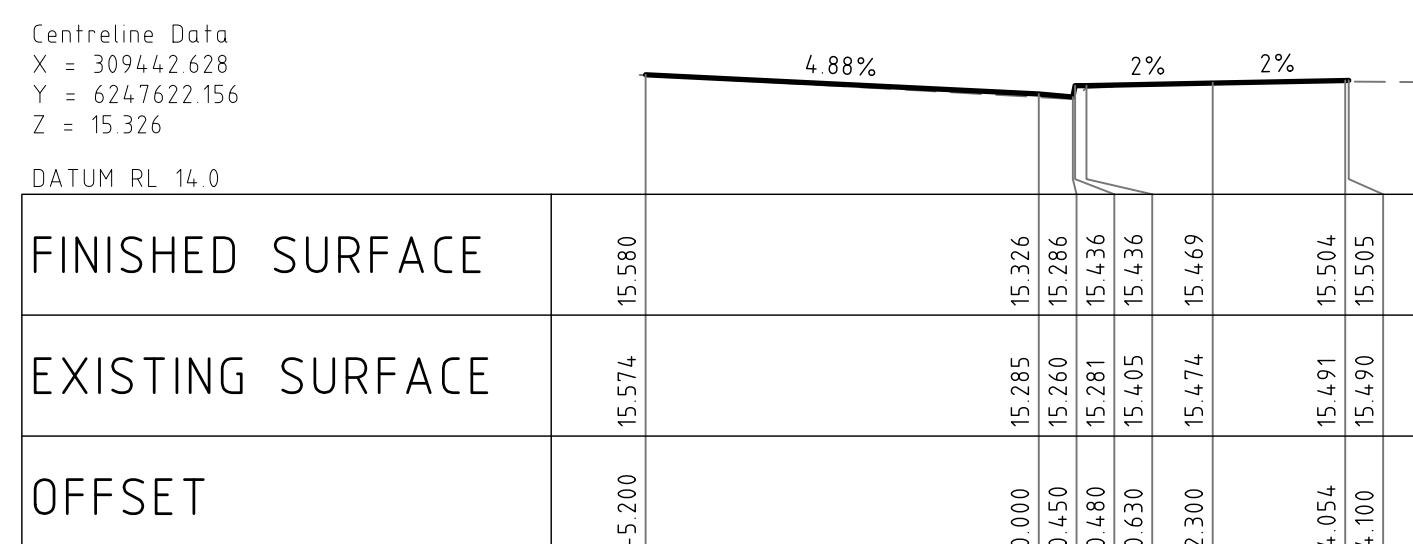
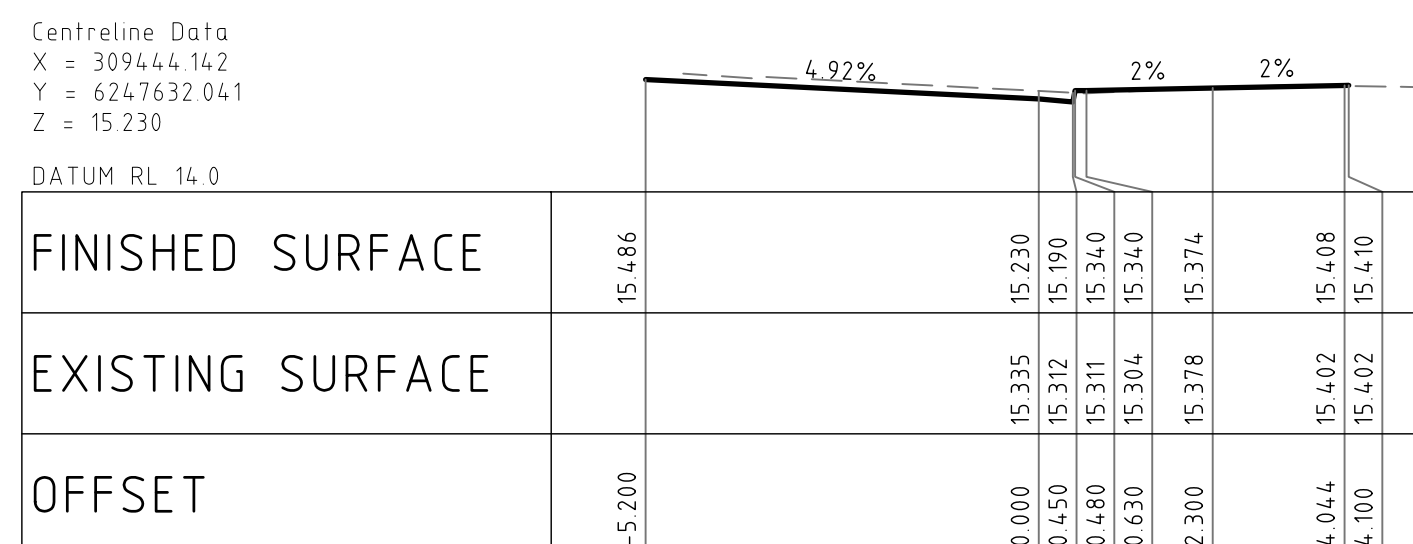
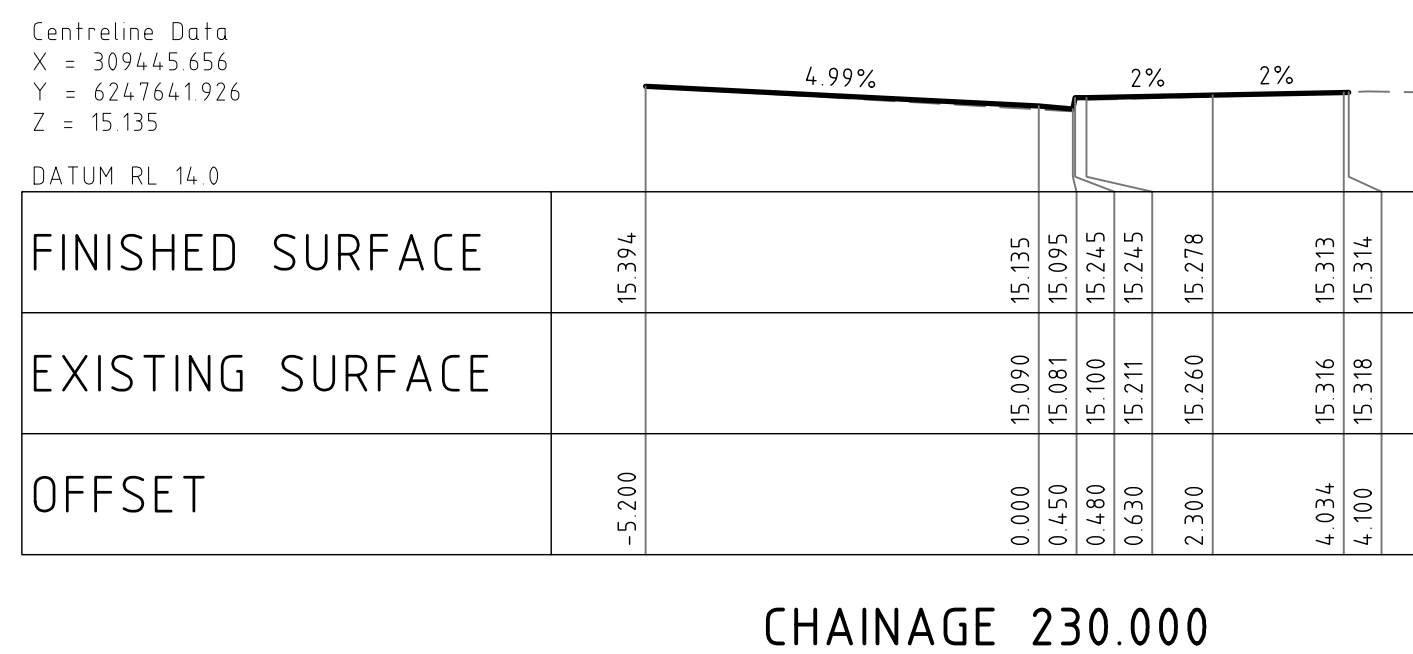
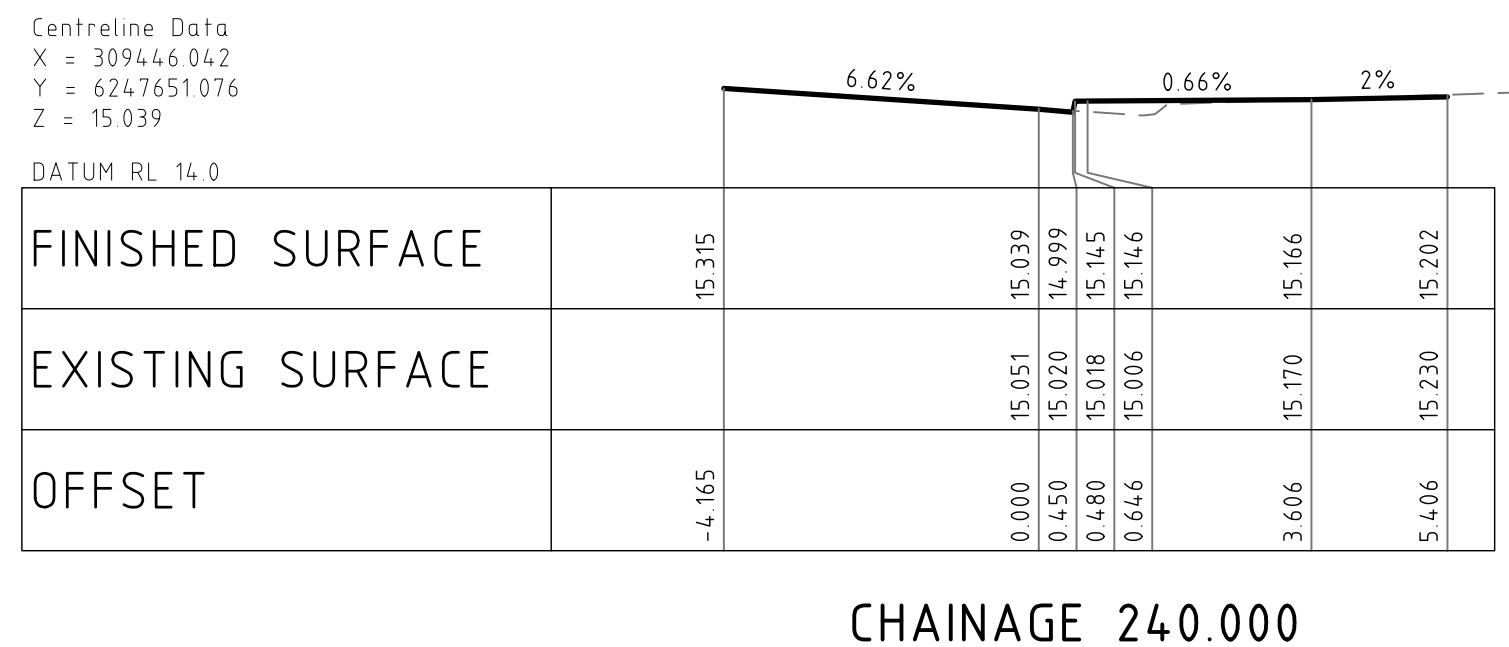
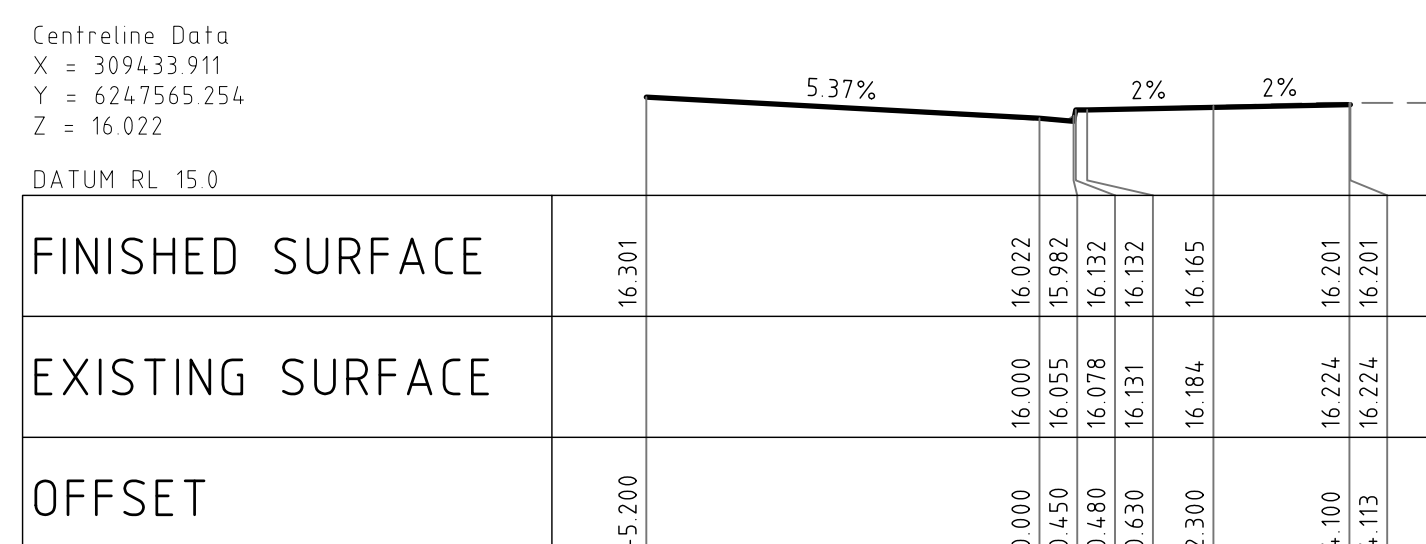
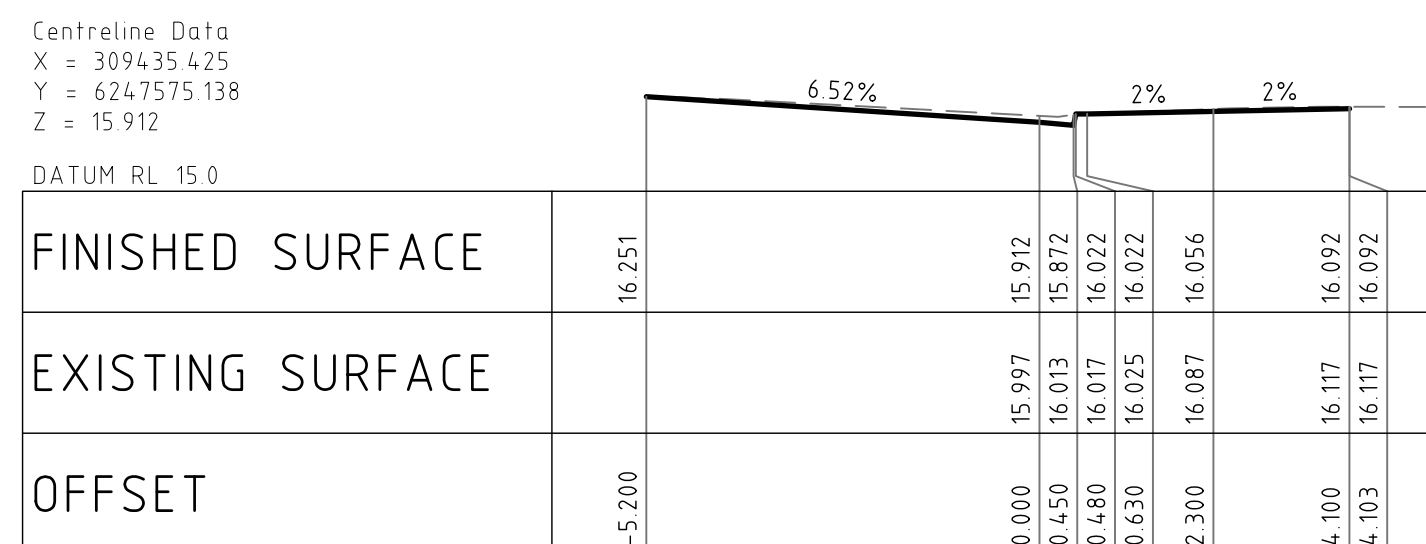
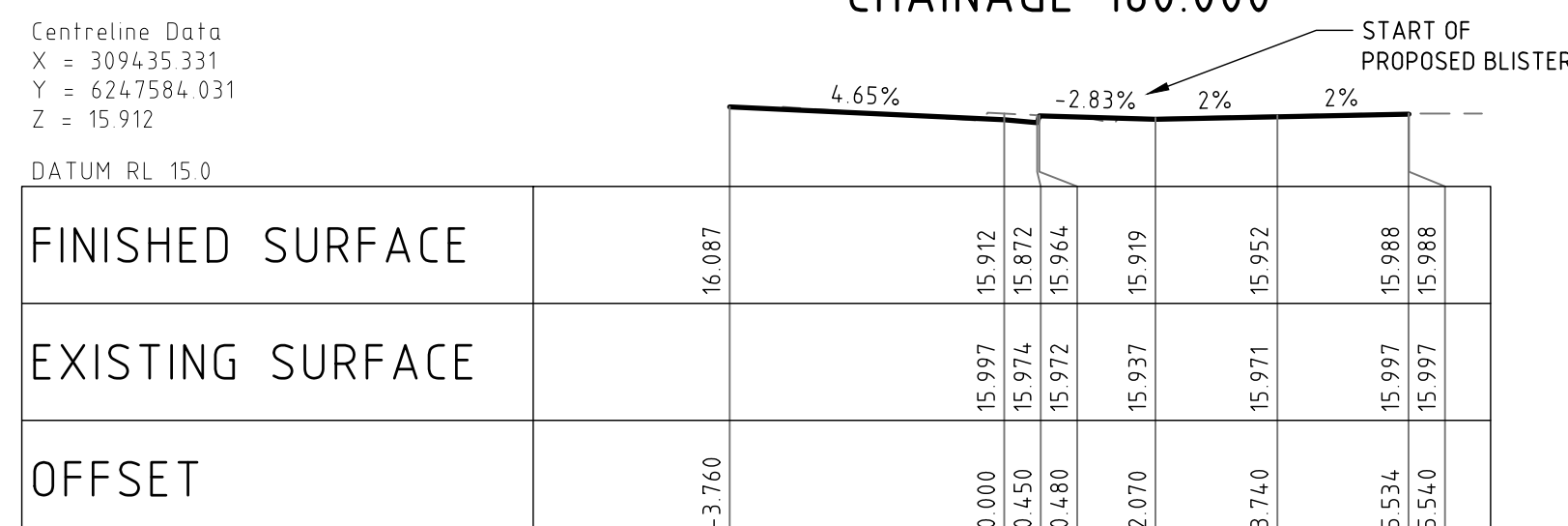
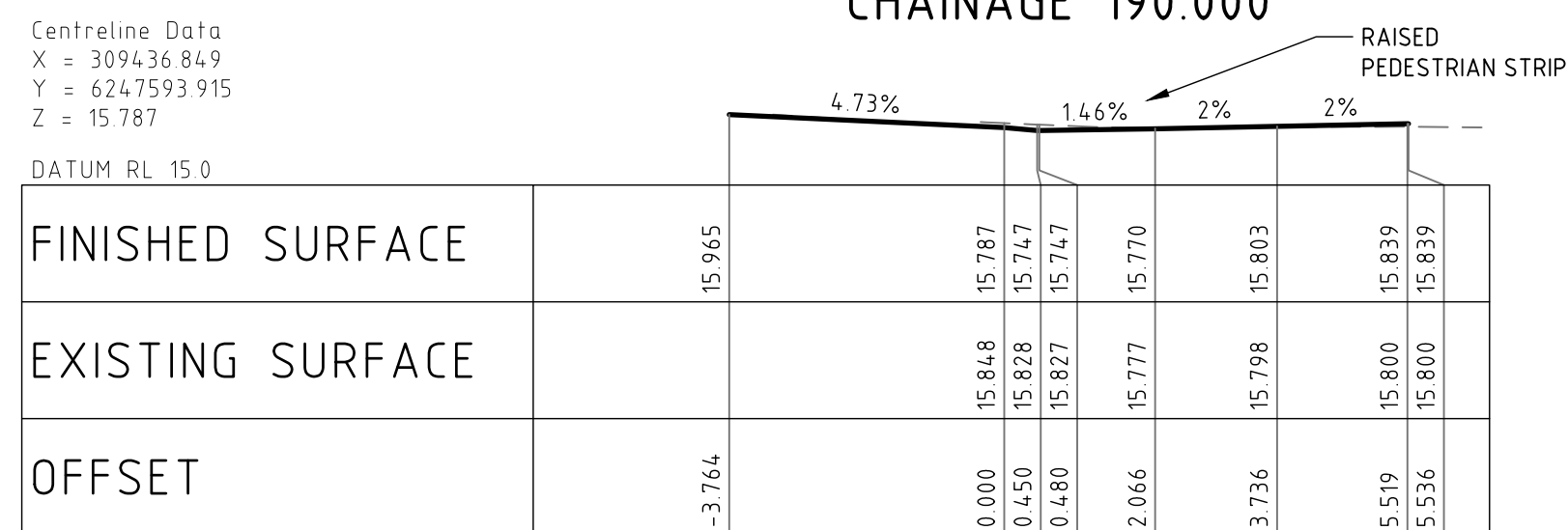
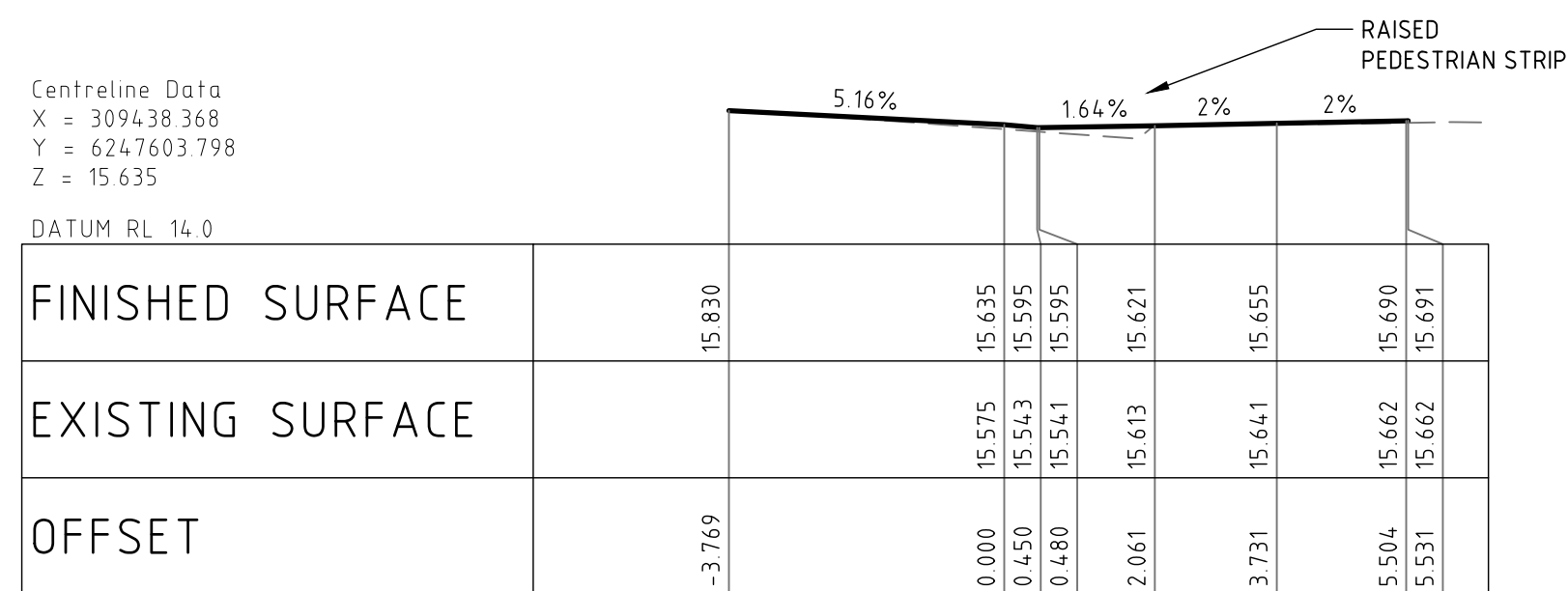
HORIZONTAL SCALE 1:400 @ A1  
VERTICAL SCALE 1:80 @ A1

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HORIZONTAL SCALE 1:100@A1  
VERTICAL SCALE 1:100@A1

| REVISION |  | DESCRIPTION                           | ISSUED | VER'D | APP'D | DATE     | CLIENT           | ARCHITECT                                                                             | ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK.<br>NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.<br>THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE. |                                                                                  | <br><b>Sydney</b><br>Level 11 345 George Street, Sydney NSW 2000<br>Ph (02) 9241 4188 Fax (02) 9241 4324<br>Email sydney@northrop.com.au ABN 81 094 433 100 | PROJECT                         | DRAWING TITLE                                        | JOB NUMBER | DRAWING NUMBER | REVISION | DRAWING SHEET SIZE = A1 |
|----------|--|---------------------------------------|--------|-------|-------|----------|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|------------|----------------|----------|-------------------------|
| 01       |  | ISSUED FOR DEVELOPMENT APPLICATION    | UM     |       | JC    | 08.05.23 | MOON INVESTMENTS |  | SCALE 1:100 @ A1<br>0 1 2 3 4 5m                                                                                                                                                                                                                                                            | SCALE 1:100 @ A1<br>0 1 2 3 4 5m                                                 |                                                                                                                                                                                                                                                  | BROOMFIELD STREET<br>CABRAMATTA | CIVIL ENGINEERING PACKAGE<br>DEVELOPMENT APPLICATION | 183030-01  | DAC5202        | 02       |                         |
| 02       |  | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |                  |                                                                                       | DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED                                                                                                                                                                                                        | THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD |                                                                                                                                                                                                                                                  |                                 | CROSS SECTIONS - SHEET 02                            |            |                |          |                         |
|          |  |                                       |        |       |       |          |                  |                                                                                       |                                                                                                                                                                                                                                                                                             |                                                                                  |                                                                                                                                                                                                                                                  |                                 |                                                      |            |                |          |                         |
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DATUM RL 13.0

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DATUM RL 13.0

[illegible]

DATUM RL 13.0

[illegible]

DATUM RL 13.0

|                  |        |  |  |  |        |        |        |        |        |        |
|------------------|--------|--|--|--|--------|--------|--------|--------|--------|--------|
| FINISHED SURFACE | 14.423 |  |  |  | 14.290 | 14.250 | 14.400 | 14.433 | 14.469 | 14.497 |
| EXISTING SURFACE |        |  |  |  | 14.261 | 14.245 | 14.252 | 14.410 | 14.472 | 14.490 |
| OFFSET           | -6.000 |  |  |  | 0.000  | 0.450  | 0.480  | 0.630  | 0.100  | 0.507  |

DATUM RL 13.0

| FINISHED SURFACE |        | EXISTING SURFACE |        | OFFSET |        |
|------------------|--------|------------------|--------|--------|--------|
|                  | 14.610 |                  | 14.519 | 0.000  | 14.367 |
|                  |        |                  | 0.450  | 14.399 | 14.327 |
|                  |        |                  | 0.480  | 14.400 | 14.477 |
|                  |        |                  | 0.630  | 14.406 | 14.477 |
|                  |        |                  | 0.300  | 14.468 | 14.510 |
|                  |        |                  | 0.100  | 14.483 | 14.546 |

HORIZONTAL SCALE 1:100@A1  
VERTICAL SCALE 1:100@A1

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DATUM RL 13.0

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DATUM RL 13.0

|                  |        |        |        |        |        |        |
|------------------|--------|--------|--------|--------|--------|--------|
| FINISHED SURFACE | 14.326 | 14.042 | 14.002 | 14.152 | 14.185 |        |
| EXISTING SURFACE | 14.285 | 14.011 | 13.988 | 13.986 | 14.190 | 14.221 |
| OFFSET           | -6.000 | 0.000  | 0.450  | 0.480  | 0.630  | 4.930  |

4.73%

2% 2%

SCALE 1:100 @ A1

SCALE 1:100 @ A1



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PROJECT **BROOMFIELD STREET  
CABRAMATTA**

DRAWING TITLE

**CIVIL ENGINEERING PACKAGE  
DEVELOPMENT APPLICATION**

**CROSS SECTIONS - SHEET 03**

JOB NUMBER  
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183030-01

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**VERIFIER:**

**JOB MANAGER: B. LAWRENCE**

DESIGNED: J. CARROLL

DRAWN: U. MANDAL

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| REVISION | DESCRIPTION                           | ISSUED | VER'D | APP'D | DATE     |
|----------|---------------------------------------|--------|-------|-------|----------|
| 01       | ISSUED FOR DEVELOPMENT APPLICATION    | UM     |       | JC    | 08.05.23 |
| 02       | RE-ISSUED FOR DEVELOPMENT APPLICATION | UM     |       | JC    | 11.05.23 |
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ARCHITECT

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PROJECT

**BROOMFIELD STREET  
CABRAMATTA**

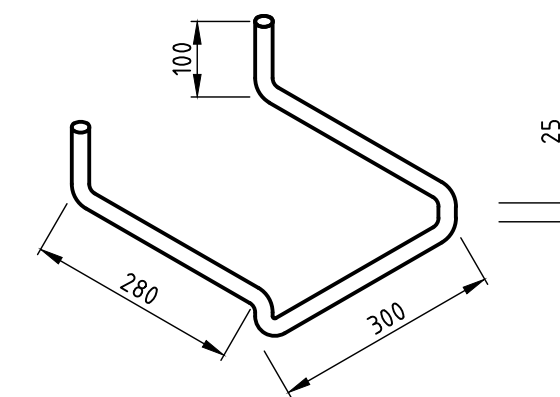
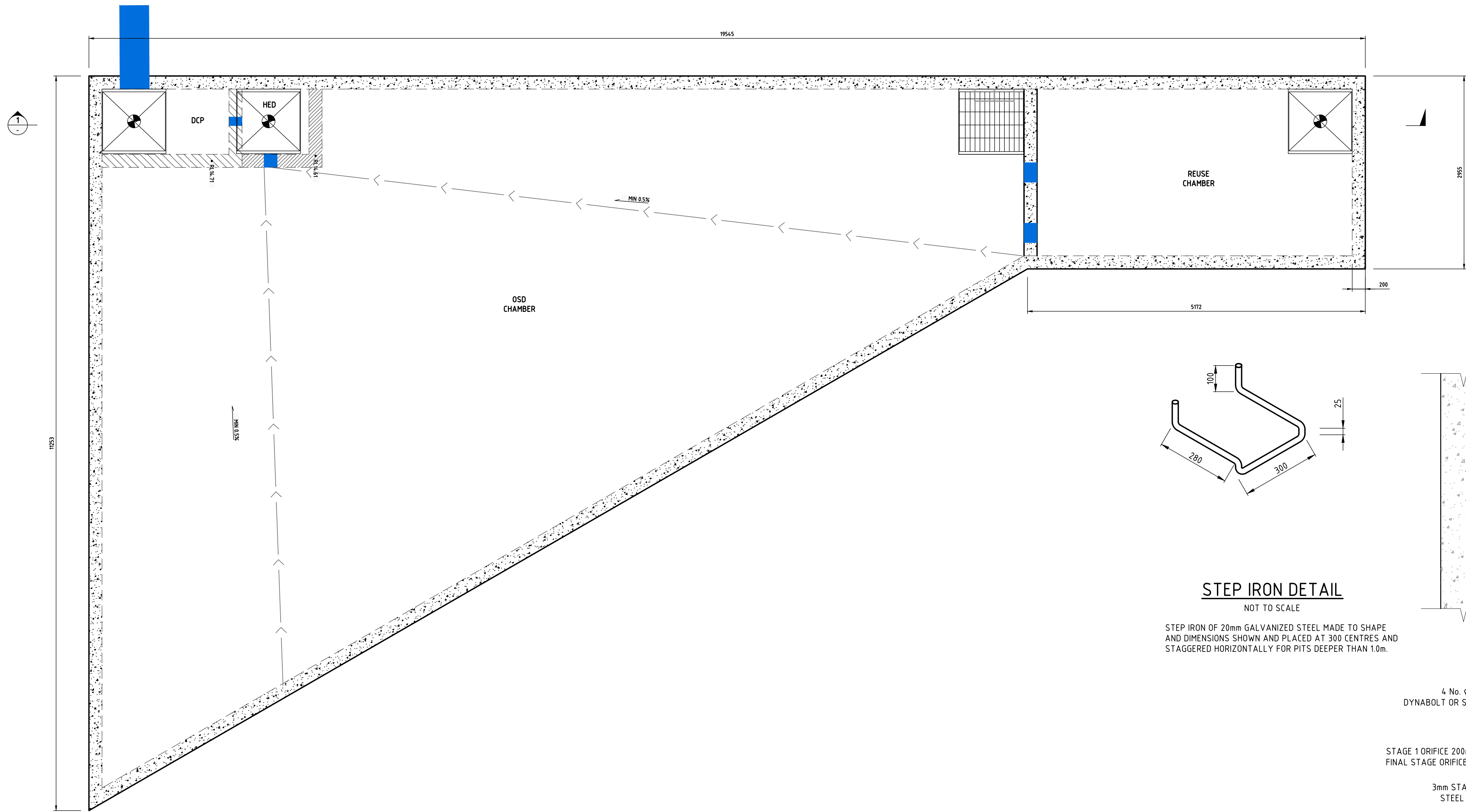
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**CIVIL ENGINEERING PACKAGE  
DEVELOPMENT APPLICATION  
CROSS SECTIONS - SHEET 03**

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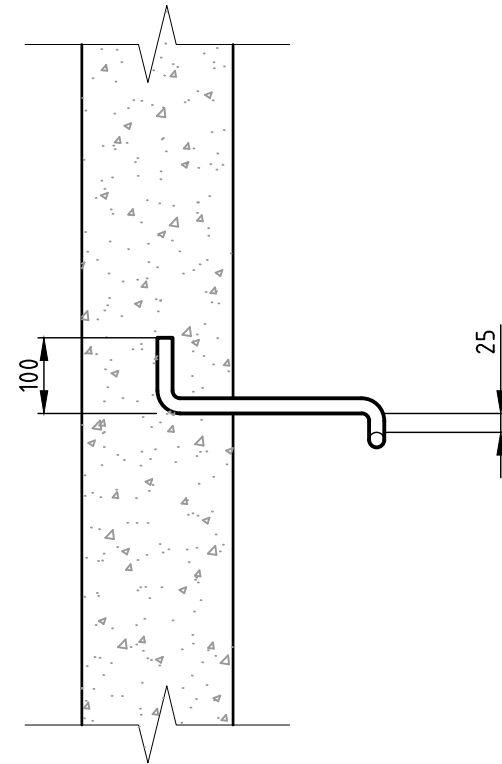
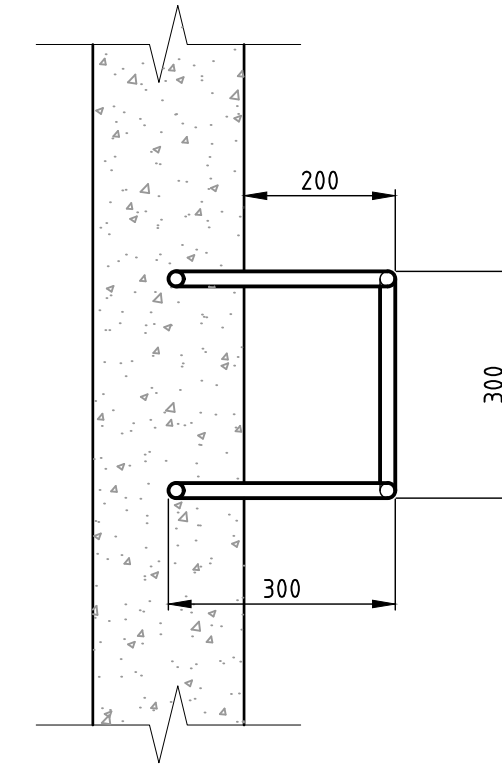
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DESIGNED: J CARROLL  
JOB MANAGER: B LAWRENCE  
VERIFIER:



#### STEP IRON DETAIL

NOT TO SCALE

STEP IRON OF 20mm GALVANIZED STEEL MADE TO SHAPE AND DIMENSIONS SHOWN AND PLACED AT 300 CENTRES AND STAGGERED HORIZONTALLY FOR PITS DEEPER THAN 1.0m.



#### ORIFICE PLATE DETAIL

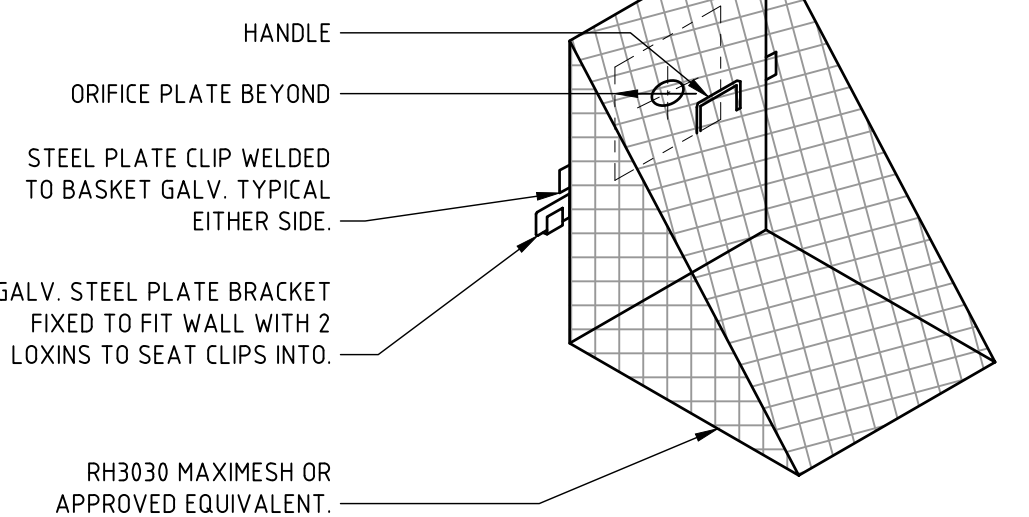
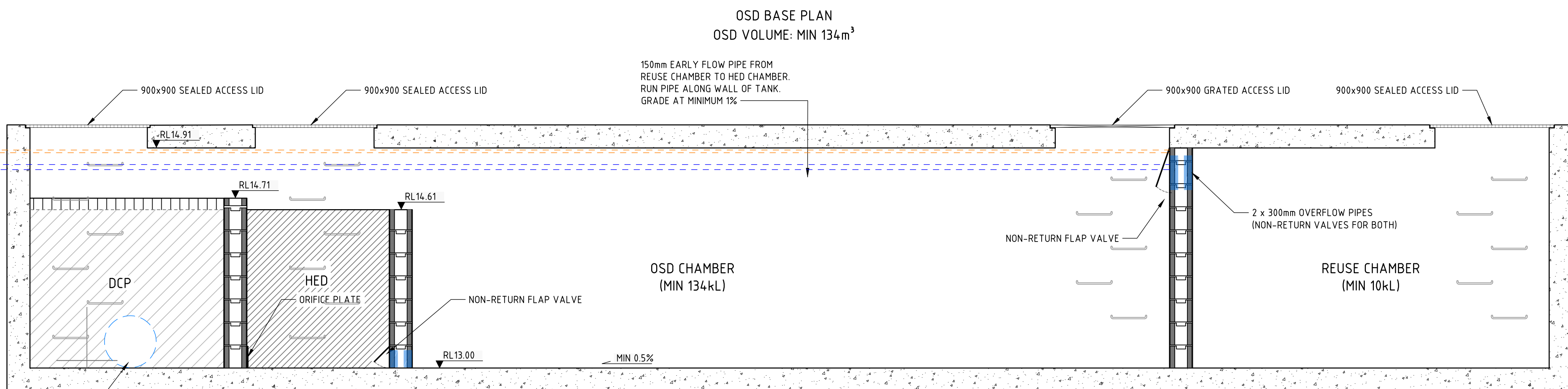
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4 No. Ø10x100  
DYNABOLT OR SIMILAR.

STAGE 1 ORIFICE 200mm  
FINAL STAGE ORIFICE 300mm  
3mm STAINLESS  
STEEL PLATE.

OUTLET PIPE

TWL 14.892 - FINAL STAGE - CRITICAL STORM  
TWL 14.869 - STAGE 1 - CRITICAL STORM  
TWL 14.766 - STAGE 1 - 540min STORM  
TWL 14.722 - FINAL STAGE - 540min STORM



#### TRASH SCREEN DETAIL

NOT TO SCALE

TO BE PROVIDED OVER ORIFICE PLATE SPECIFIED

NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION                           | ISSUED | VER'D | APP'D | DATE     |
|----------|---------------------------------------|--------|-------|-------|----------|
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| PROJECT | BROOMFIELD STREET<br>CABRAMATTA |
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| DRAWING NUMBER     | DAC9001   |
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## Appendix E Quality Assurance/Quality Control

The QA/QC results for soil samples collected at the site are summarised in **Table E.1** and discussed following. Laboratory certificates of analysis are included in **Appendix F**.

**Table E.1: Data Quality Indicator Assessment**

| Data Quality Indicators                              | Frequency                                            | Result                                              | DQO met? |
|------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|----------|
| <b>Precision</b>                                     |                                                      |                                                     |          |
| Duplicates (intra laboratory)                        | Soil: 1 / 10 samples                                 | 0-37% RPD                                           | Yes      |
|                                                      | Groundwater: 1 / 3 samples                           | 0-40% RPD                                           | Yes      |
|                                                      | Soil Vapour: 1 / 8 samples                           | 0% RPD                                              | Yes      |
| Triplicates (Inter laboratory)                       | Soil: 1 / 10 samples                                 | 0-95% RPD                                           | Partial  |
|                                                      | Groundwater: 1 / 3 samples                           | 0-40% RPD                                           | Partial  |
|                                                      | Soil Vapour: 0 / 8 samples                           | -                                                   | Partial  |
| Laboratory Duplicates <sup>2</sup>                   | Soil: greater than 1 / 20 samples                    | 0-25% RPD                                           | Partial  |
|                                                      | Groundwater: greater than 1 / 20 samples             | 0-13% RPD                                           | Partial  |
|                                                      | Soil Vapour: -                                       | -                                                   | Yes      |
| <b>Accuracy</b>                                      |                                                      |                                                     |          |
| Surrogate spikes                                     | All organic samples                                  | 12-198% RPD                                         | Partial  |
| Laboratory control samples                           | 1 per lab batch                                      | 131-138% RPD                                        | Partial  |
| Matrix spikes                                        | 1 per lab batch                                      | 70-131% RPD                                         | Partial  |
| <b>Representativeness</b>                            |                                                      |                                                     |          |
| Sampling appropriate for media and analytes          | -                                                    | Yes                                                 | Yes      |
| Samples extracted and analysed within holding times. | -                                                    | Not all samples were extracted within holding times | Partial  |
| Laboratory blanks                                    | 1 per lab batch                                      | <LOR                                                | Yes      |
| Trip spike                                           | 1 per lab batch                                      | 70-130% RPD                                         | Yes      |
| Trip blank                                           | 1 per lab batch                                      | <LOR                                                | Yes      |
| Rinsate blank                                        | 1 per sampling data where reusable equipment is used | <LOR                                                | Yes      |
| Field blank <sup>1</sup>                             | 1 per sampling event                                 | <LOR                                                | Yes      |



| Data Quality Indicators                                                                              | Frequency         | Result                              | DQO met? |
|------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------|----------|
| <b>Comparability</b>                                                                                 |                   |                                     |          |
| Standard operating procedures for sample collection & handling                                       | All Samples       | All samples <sup>3</sup>            | Yes      |
| Standard analytical methods used for all analyses                                                    | All Samples       | All samples <sup>3</sup>            | Yes      |
| Consistent field conditions, sampling staff and laboratory analysis                                  | All Samples       | All samples <sup>3</sup>            | Yes      |
| Limits of reporting appropriate and consistent                                                       | All Samples       | All samples <sup>3</sup>            | Yes      |
| <b>Completeness</b>                                                                                  |                   |                                     |          |
| Sample description and COCs completed and appropriate                                                | All Samples       | All samples <sup>3</sup>            | Yes      |
| Appropriate documentation                                                                            | All Samples       | All samples <sup>3</sup>            | Yes      |
| Satisfactory frequency and result for QC samples                                                     | All QA/QC samples | _3                                  | Yes      |
| Data from critical samples is considered valid                                                       | -                 | Critical samples valid <sup>3</sup> | Yes      |
| <b>Sensitivity</b>                                                                                   |                   |                                     |          |
| Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria | All samples       | All samples                         | Yes      |

<sup>1</sup> For soil vapour and PFAS samples only.

<sup>2</sup> If the RPD between duplicates is greater than the pre-determined data quality indicator, a judgment was made as to whether the excess is critical in relation to the validation of the data set or unacceptable sampling error is occurring in the field.

<sup>3</sup> A qualitative assessment of compliance with standard procedures and appropriate sample collection methods was completed during the DQI compliance assessment.

## Precision

A summary of all RPD calculations is provided following the QA/QC evaluation.

### Soil Duplicates and Triplicates

Soil duplicates and triplicates were collected at a rate of greater than 1 per 20 primary samples analysed, meeting the 1/20 DQI frequency. RPDs were within the acceptable limit (0-50%), with the exception of the following:

- TPH C29-C36 with an RPD of 95% between the primary (BH01\_0.3-0.4) and triplicate (QA01) samples;
- TPH C10-C36 with an RPD of 95% between the primary (BH01\_0.3-0.4) and triplicate (QA01) samples;
- TRH C16-C34 with an RPD of 52% between the primary (BH01\_0.3-0.4) and triplicate (QA01) samples;

- TRH C10-C40 with an RPD of 52% between the primary (BH01\_0.3-0.4) and triplicate (QA01) samples; and
- Benzo(a)pyrene TEQ (LOR) with an RPD of 82% between the primary (BH01\_0.3-0.4) and triplicate (QA01) samples.

It is considered that the elevated RPDs are due to the low reported COPC concentrations and heterogeneous nature of the soils. Additionally, analytical results with high RPDs were generally in agreement as they were reported at levels below the adopted criteria. As a conservative measure, the highest result obtained was adopted for assessment purposes. Based on this, the RPDs above the DQI are not considered to affect the data set.

#### Groundwater Duplicates and Triplicates

Groundwater duplicates and triplicates were collected at a rate of greater than 1 per 20 primary samples analysed, meeting the 1/20 DQI frequency. RPDs were all within the acceptable limit (0-50%).

#### Soil Vapour Duplicates

Soil vapour duplicates were collected at a rate of greater than 1 per 20 primary samples analysed, meeting the 1/20 DQI frequency. RPDs were all within the acceptable JBS&G acceptable limit (0-50%).

#### Laboratory Duplicates

All laboratory duplicate RPDs were within the acceptable limit (0-50%). The rate of laboratory duplicate analysis is within the JBS&G acceptance criteria of 1 in 20 samples.

### **Accuracy**

#### Surrogate Spikes

Surrogate spike recoveries were mostly reported within the acceptable range of 70-130%. Those outside the range were mostly within the laboratories acceptable range of 50-150%.

#### Laboratory Control Samples

Laboratory control sample recoveries were mostly reported within the JBS&G acceptable range of 70-130%, those outside the range were within the laboratories acceptable range of 50-150%.

#### Matrix Spikes

Matrix spikes recoveries were mostly reported within the JBS&G acceptable range of 70-130%, those outside the range were mostly within the laboratories acceptable range of 50-150%.

### **Representativeness**

#### Sampling appropriate for media and analytes

All soil, groundwater and soil vapour sampling works completed during the investigation were conducted in accordance with JBS&G standard operating procedures. Soil sampling was conducted as described in **Section 5.2.2**, groundwater was conducted as described in **Section 5.2.3** and soil vapour was conducted as described in **Section 5.2.4**.

#### Holding Times

The extraction and analysis of selected samples were completed by the primary laboratory outside the recommended holding times for some analytes. However, it is noted all samples were handled appropriately prior to delivery to the laboratory. Further, consistent with field observations and screening whereby no indications of potential volatile COPC were noted and no other visible indicators of potential non-volatile COPC were observed, all laboratory analysis results are indicative of low COPC concentrations that are not indicative of COPC loss between sampling and extraction. As such, the delayed extraction time has been deemed not to impact the data set nor investigation conclusions.

#### Trip Spike

Trip spike recoveries were reported within the acceptable range of 70-130%.

#### Trip Blank

Trip blank concentrations were all below LOR.

#### Rinsate

A rinsate was taken of the reusable equipment used. No reported concentrations above the laboratory LOR, achieving the nominated DQIs.

#### Field Blank

A field blank was undertaken with the soil vapour samples and PFAS samples. There were no reported concentrations above the laboratory LOR in the field blanks analysed.

#### Laboratory Blank

There were no reported concentrations above the laboratory LOR in the laboratory method blanks analysed.

### **Comparability**

#### Documentation

All documentation is complete and correct. Decontamination and calibration field sheets are provided in **Appendix C**.

#### Frequency for QC Samples

Frequency of analysis for the QC samples collected has met or exceeded the required minimum frequency for each analyte and media analysed.

### **Completeness**

Samples were transported under full chain of custody (COC) documentation. The COC documentation was complete, and the selected analyses were correctly conducted.

All field documentation was completed appropriately including borehole logs, COCs, daily field logs and calibration and decontamination sheets (PID).

### **Sensitivity**

Laboratory analysis methods for all contaminants adopted during the investigation applied limits of reporting less than the site assessment criteria.

### **QA/QC Assessment**

The field sampling and handling procedures produced QA/QC results which indicate that the soil, groundwater and soil vapour data was of an acceptable quality and suitable for use in site characterisation.

The NATA certified laboratory results sheets indicate that the project laboratory was generally achieving levels of performance within its recommended control limits during the period when the samples from this program were analysed.

On the basis of the results of the field and laboratory QA/QC program, the soil, groundwater and soil vapour data is of an acceptable quality in order to achieve the objectives of the assessment.



## Appendix F    Laboratory Documentation



| PROJECT NO.: 65196                                                                                                       |        |         |      | LABORATORY BATCH NO.: |    |              |          |     |      |     |      |          |     |                           |                |         |        |
|--------------------------------------------------------------------------------------------------------------------------|--------|---------|------|-----------------------|----|--------------|----------|-----|------|-----|------|----------|-----|---------------------------|----------------|---------|--------|
| PROJECT NAME: Cabramatta                                                                                                 |        |         |      | SAMPLERS: J. Lee      |    |              |          |     |      |     |      |          |     |                           |                |         |        |
| DATE NEEDED BY: Standard TAT                                                                                             |        |         |      | QC LEVEL: NEPM (2013) |    |              |          |     |      |     |      |          |     |                           |                |         |        |
| PHONE: Sydney 02 8245 0300   Perth 08 9488 0100   Brisbane 07 3112 2688   Melbourne 03 9642 0599   Adelaide 08 8431 7113 |        |         |      |                       |    |              |          |     |      |     |      |          |     |                           |                |         |        |
| SEND REPORT & INVOICE TO: (1) adminsw@jbsg.com.au; (2) @jbsgonline; (3) @jbsgonline; (4) @jbsgonline                     |        |         |      |                       |    |              |          |     |      |     |      |          |     |                           |                |         |        |
| COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:                                                                       |        |         |      |                       |    |              |          |     |      |     |      |          |     |                           |                |         |        |
| SAMPLE ID                                                                                                                | MATRIX | DATE    | TIME | TYPE & PRESERVATIVE   | pH | Heavy Metals | TRH/BTEX | PAH | VOCs | OCs | PCBs | Asbestos | PFA | TYPE OF ASBESTOS ANALYSIS | IDENTIFICATION | NEPM/WA | NOTES: |
| BH01 - 0.3-0.4                                                                                                           | Soil   | 29/5/23 |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| ↓ - 0.5-0.6                                                                                                              |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| ↓ - 1.0-1.1                                                                                                              |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| QC01                                                                                                                     |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| BH02 - 0.3-0.4                                                                                                           |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| ↓ - 0.5-0.6                                                                                                              |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| ↓ - 1.0-1.1                                                                                                              |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| BH03 - 0.3-0.4                                                                                                           |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| ↓ - 0.5-0.6                                                                                                              |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| ↓ - 1.0-1.1                                                                                                              |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| BH04 - 0.3-0.4                                                                                                           |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| ↓ - 0.5-0.6                                                                                                              |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| ↓ - 1.0-1.1                                                                                                              |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| BH05 - 0.3-0.4                                                                                                           |        | 30/5/23 |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| ↓ - 0.5-0.6                                                                                                              |        |         |      | B + J + Ice + Tub     |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| ↓ - 1.0-1.1                                                                                                              |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| ↓ - 1.5-1.6                                                                                                              |        |         |      | B + J + Ice           |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| QC02                                                                                                                     |        |         |      |                       |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |
| BH06 - 0.3-0.4                                                                                                           |        | 29/5/23 |      |                       |    | X            | X        | X   | X    | X   | X    | X        | X   | X                         | X              | X       |        |

995556



|                                                                                                                          |  |  |  |                       |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------------------|--|--|--|
| PROJECT NO.: 6 S196                                                                                                      |  |  |  | LABORATORY BATCH NO.: |  |  |  |
| PROJECT NAME: Cabramatta                                                                                                 |  |  |  | SAMPLES: 1 Vce        |  |  |  |
| DATE NEEDED BY: Standard 771                                                                                             |  |  |  | QC LEVEL: NEPM (2013) |  |  |  |
| PHONE: Sydney 02 8245 0300   Perth 08 9488 0100   Brisbane 07 3112 2688   Melbourne 03 9642 0599   Adelaide 08 8431 7113 |  |  |  |                       |  |  |  |
| SEND REPORT & INVOICE TO: (1) admin@jbsg.com.au; (2) sales@jbsg.com.au; (3) jbsg@jbsg.com.au                             |  |  |  |                       |  |  |  |
| COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:                                                                       |  |  |  |                       |  |  |  |

| SAMPLE ID      | MATRIX | DATE    | TIME | TYPE & PRESERVATIVE | pH | Heavy Metals | TRI/BTEX | PAH | VOCs | OCPs | PCBs | Asbestos | PFAS | IDENTIFICATION | NEPM/WA | NOTES: |
|----------------|--------|---------|------|---------------------|----|--------------|----------|-----|------|------|------|----------|------|----------------|---------|--------|
| BH06 - 0.5-0.6 | Soil   | 29/5/23 |      | B + J + T + Ice     |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 1.0-1.1    |        |         |      | B + J + Ice         |    |              |          |     |      |      |      |          |      |                |         |        |
| BH07 - 0.3-0.4 |        |         |      | B + J + Ice         |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 0.5-0.6    |        |         |      | B + Jar + Tub + Ice |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 1.0-1.1    |        |         |      | B + J + Ice         |    |              |          |     |      |      |      |          |      |                |         |        |
| BH01 - 0.3-0.4 |        | 30/5/23 |      |                     |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 0.5-0.6    |        |         |      |                     |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 1.0-1.1    |        |         |      | B + J + T + Ice     |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 1.5-1.6    |        |         |      | B + J + Ice         |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 2.0-2.1    |        |         |      |                     |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 3.0-3.1    |        |         |      |                     |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 4.0-4.1    |        |         |      |                     |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 5.0-5.1    |        |         |      |                     |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 6.0-6.1    |        |         |      |                     |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 7.0-7.1    |        |         |      |                     |    |              |          |     |      |      |      |          |      |                |         |        |
| MW02 - 0.3-0.4 |        |         |      | B + J + T + Ice     |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 0.5-0.6    |        |         |      | B + J + Ice         |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 1.0-1.1    |        |         |      |                     |    |              |          |     |      |      |      |          |      |                |         |        |
| ↓ - 1.5-1.6    |        |         |      |                     |    |              |          |     |      |      |      |          |      |                |         |        |

|                     |                      |              |                                                            |
|---------------------|----------------------|--------------|------------------------------------------------------------|
| RELINQUISHED BY:    | METHOD OF SHIPMENT:  | RECEIVED BY: | FOR RECEIVING LAB USE ONLY:                                |
| NAME: DATE: 36/5/23 | CONSIGNMENT NOTE NO. | NAME: DATE:  | COOLER SEAL - Yes:..... No:..... Intact:..... Broken:..... |
| OF: JBS&G           | TRANSPORT CO.        | OF:          | COOLER TEMP: ..... deg C                                   |
| NAME: DATE:         | CONSIGNMENT NOTE NO. | NAME: DATE:  | COOLER SEAL - Yes:..... No:..... Intact:..... Broken:..... |
| OF:                 | TRANSPORT CO.        | OF:          | COOLER TEMP: ..... deg C                                   |

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Presv.; C = Sodium Hydroxide Presv.; VC = Hydrochloric Acid Presv Vial; VS = Sulfuric Acid Presv Vial; S = Sulfuric Acid Presv; Z = Zinc Presv; E = EDTA Presv; ST = Sterile Bottle; O = Other



Levokins PG 3/13

Chain of Custody



PROJECT NO.: 65196

PROJECT NAME: Cabramatta

DATE NEEDED BY: Standard 744

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) admin@jbsg.com.au; (2) admin@jbsg.com.au; (3) admin@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:

SAMPLERS: J.V.E.

QC LEVEL: NEPM (2013)

| TYPE OF ANALYSIS | ASBESTOS | IDENTIFICATION | NEPM/WA | NOTES: |
|------------------|----------|----------------|---------|--------|
|                  |          |                |         |        |

| SAMPLE ID      | MATRIX | DATE    | TIME | TYPE & PRESERVATIVE            | pH | Heavy metal | TRH | IBTEX | PAHs | VOCs | OCPs | PCBs | Asbestos | PFAS |
|----------------|--------|---------|------|--------------------------------|----|-------------|-----|-------|------|------|------|------|----------|------|
| MW02 - 2.0-2.1 | Soil   | 30/5/23 |      | B + J + T + Ice<br>B + J + Ice |    |             |     |       |      |      |      |      |          |      |
| - 3.0-3.1      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 4.0-4.1      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 5.0-5.1      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 6.0-6.1      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 7.0-7.1      |        |         |      | B + J + T + Ice<br>B + J + Ice |    |             |     |       |      |      |      |      |          |      |
| MW03 - 0.2-0.3 |        | 29/5/23 |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 0.5-0.6      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 1.0-1.1      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 1.5-1.6      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 4.0-4.1      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 5.0-5.1      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 6.0-6.1      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 7.0-7.1      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 8.0-8.1      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 9.0-9.1      |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| - 10.0-10.1    |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |
| Blank          | Water  | 30/5/23 |      | 3 Ice Bottle                   |    |             |     |       |      |      |      |      |          |      |
| RINSE          |        |         |      |                                |    |             |     |       |      |      |      |      |          |      |

REINQUISHED BY:

NAME: J.V.E. DATE: 30/5/23

OF: JBS&G DATE: 30/5/23

NAME: DATE:

OF: DATE:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO.

METHOD OF SHIPMENT:

NAME: DATE:

OF: NAME: DATE:

OF: NAME: DATE:

RECEIVED BY:

NAME: DATE:

OF: NAME: DATE:

OF: NAME: DATE:

FOR RECEIVING LAB USE ONLY:

COOLER SEAL - Yes..... No..... Intact..... Broken.....

COOLER TEMP ..... deg C

COOLER SEAL - Yes..... No..... Intact..... Broken.....

COOLER TEMP ..... deg C

## Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| Melbourne                                                                                       | Geelong                                                                                        | Sydney                                                                                      | Canberra                                                                                        | Brisbane                                                                                      | Newcastle                                                                                              |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 6 Monterey Road<br>Dandenong South<br>VIC 3175<br>Tel: +61 3 8564 5000<br>NATA# 1261 Site# 1254 | 19/8 Lewalan Street<br>Grovedale<br>VIC 3216<br>Tel: +61 3 8564 5000<br>NATA# 1261 Site# 25403 | 179 Magowar Road<br>Girraween<br>NSW 2145<br>Tel: +61 2 9900 8400<br>NATA# 1261 Site# 18217 | Unit 1,2 Dacre Street<br>Mitchell<br>ACT 2911<br>Tel: +61 2 6113 8091<br>NATA# 1261 Site# 25466 | 1/21 Smallwood Place<br>Murarie<br>QLD 4172<br>Tel: +61 7 3902 4600<br>NATA# 1261 Site# 20794 | 1/2 Frost Drive<br>Mayfield West NSW 2304<br>Tel: +61 2 4968 8448<br>NATA# 1261<br>Site# 25079 & 25289 |

## Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

| Perth                                                                                       |
|---------------------------------------------------------------------------------------------|
| 46-48 Banksia Road<br>Welshpool<br>WA 6106<br>Tel: +61 8 6253 4444<br>NATA# 2377 Site# 2370 |

## Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

| Auckland                                                                           | Christchurch                                                                             |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 35 O'Rourke Road<br>Penrose,<br>Auckland 1061<br>Tel: +64 9 526 4551<br>IANZ# 1327 | 43 Detroit Drive<br>Rolleston,<br>Christchurch 7675<br>Tel: +64 3 343 5201<br>IANZ# 1290 |

## Sample Receipt Advice

|                           |                             |
|---------------------------|-----------------------------|
| <b>Company name:</b>      | JBS & G Australia (NSW) P/L |
| <b>Contact name:</b>      | Alison Smith                |
| <b>Project name:</b>      | CABRAMATTA                  |
| <b>Project ID:</b>        | 65196                       |
| <b>Turnaround time:</b>   | 5 Day                       |
| <b>Date/Time received</b> | May 31, 2023 5:07 PM        |
| <b>Eurofins reference</b> | 995556                      |

## Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 12 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

## Notes

## Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

**Andrew Black on phone : (+61) 2 9900 8490 or by email: [AndrewBlack@eurofins.com](mailto:AndrewBlack@eurofins.com)**

Results will be delivered electronically via email to Alison Smith - [alisonsmith@jbsg.com.au](mailto:alisonsmith@jbsg.com.au).



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Tel: +61 3 8564 5000  
NATA# 1261 Site# 25403

**Sydney**  
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Girraween  
NSW 2145  
Tel: +61 2 9900 8400  
NATA# 1261 Site# 18217

**Canberra**  
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ACT 2911  
Tel: +61 2 6113 8091  
NATA# 1261 Site# 25466

**Brisbane**  
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Tel: +61 7 3902 4600  
NATA# 1261 Site# 20794

**Newcastle**  
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Mayfield West NSW 2304  
Tel: +61 2 4968 8448  
NATA# 1261  
Site# 25079 & 25289

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Tel: +61 8 6253 4444  
NATA# 2377 Site# 2370

**Auckland**  
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Auckland 1061  
Tel: +64 9 526 4551  
IANZ# 1327

**Christchurch**  
43 Detroit Drive  
Rolleston,  
Christchurch 7675  
Tel: +64 3 343 5201  
IANZ# 1290

**Company Name:** JBS & G Australia (NSW) P/L  
**Address:** Level 1, 50 Margaret St  
Sydney  
NSW 2000

**Project Name:** CABRAMATTA  
**Project ID:** 65196

**Order No.:**  
**Report #:** 995556  
**Phone:** 02 8245 0300  
**Fax:**

**Received:** May 31, 2023 5:07 PM  
**Due:** Jun 7, 2023  
**Priority:** 5 Day  
**Contact Name:** Alison Smith

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail                                |              |              |               |        |               | Asbestos - WA guidelines | HOLD | Polyyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|----------------------------------------------|--------------|--------------|---------------|--------|---------------|--------------------------|------|---------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 |              |              |               |        |               | X                        | X    | X                               | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| External Laboratory                          |              |              |               |        |               |                          |      |                                 |                           |                           |           |                   |              |                   |                                             |
| No                                           | Sample ID    | Sample Date  | Sampling Time | Matrix | LAB ID        |                          |      |                                 |                           |                           |           |                   |              |                   |                                             |
| 1                                            | BH01_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005944 | X                        |      | X                               | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 2                                            | QC01         | May 29, 2023 |               | Soil   | S23-Jn0005945 | X                        |      | X                               | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 3                                            | BH02_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005946 | X                        |      | X                               |                           |                           | X         | X                 | X            | X                 |                                             |
| 4                                            | BH03_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005947 | X                        |      | X                               | X                         | X                         | X         | X                 | X            | X                 |                                             |
| 5                                            | BH04_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005948 | X                        |      |                                 |                           |                           |           |                   |              |                   |                                             |
| 6                                            | BH04_1_1.1   | May 29, 2023 |               | Soil   | S23-Jn0005949 |                          |      | X                               |                           |                           | X         | X                 | X            | X                 |                                             |
| 7                                            | BH05_0.3_0.4 | May 30, 2023 |               | Soil   | S23-Jn0005950 | X                        |      |                                 |                           |                           |           |                   | X            |                   | X                                           |
| 8                                            | BH05_0.5_0.6 | May 30, 2023 |               | Soil   | S23-Jn0005951 |                          |      | X                               |                           |                           | X         | X                 | X            | X                 |                                             |
| 9                                            | BH06_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005952 | X                        |      | X                               | X                         | X                         | X         | X                 | X            | X                 |                                             |
| 10                                           | BH07_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005953 | X                        |      | X                               |                           |                           | X         | X                 | X            | X                 |                                             |
| 11                                           | MW01_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005954 | X                        |      | X                               | X                         | X                         | X         |                   | X            |                   | X                                           |
| 12                                           | MW02_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005955 | X                        |      | X                               |                           |                           | X         | X                 | X            | X                 |                                             |





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Tel: +61 2 6113 8091  
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1/21 Smallwood Place  
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NATA# 1261 Site# 20794

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1/2 Frost Drive  
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NATA# 1261  
Site# 25079 & 25289

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**Company Name:** JBS & G Australia (NSW) P/L  
**Address:** Level 1, 50 Margaret St  
Sydney  
NSW 2000

**Project Name:** CABRAMATTA  
**Project ID:** 65196

**Order No.:**  
**Report #:** 995556  
**Phone:** 02 8245 0300  
**Fax:**

**Received:** May 31, 2023 5:07 PM  
**Due:** Jun 7, 2023  
**Priority:** 5 Day  
**Contact Name:** Alison Smith

**Eurofins Analytical Services Manager : Andrew Black**

| Sample Detail                                |              |              |  |       |               | Asbestos - WA guidelines | HOLD | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|----------------------------------------------|--------------|--------------|--|-------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 |              |              |  |       |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 13                                           | MW03_0.2_0.3 | May 29, 2023 |  | Soil  | S23-Jn0005956 | X                        |      |                                  |                           |                           |           |                   |              |                   |                                             |
| 14                                           | MW03_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005957 |                          |      | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 15                                           | MW03_7_7.1   | May 29, 2023 |  | Soil  | S23-Jn0005958 |                          |      |                                  |                           |                           |           | X                 | X            | X                 |                                             |
| 16                                           | BLANK        | May 29, 2023 |  | Water | S23-Jn0005959 |                          |      |                                  |                           |                           |           |                   |              |                   | X                                           |
| 17                                           | RINSATE      | May 29, 2023 |  | Water | S23-Jn0005960 |                          |      | X                                | X                         | X                         | X         | X                 |              | X                 | X                                           |
| 18                                           | BH01_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005961 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 19                                           | BH01_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005962 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 20                                           | BH02_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005963 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 21                                           | BH02_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005964 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 22                                           | BH03_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005965 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 23                                           | BH03_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005966 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 24                                           | BH04_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005967 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 25                                           | BH05_1_1.1   | May 30, 2023 |  | Soil  | S23-Jn0005968 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 26                                           | BH05_1.5_1.6 | May 30, 2023 |  | Soil  | S23-Jn0005969 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 27                                           | QC02         | May 30, 2023 |  | Soil  | S23-Jn0005970 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |



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**Priority:** 5 Day  
**Contact Name:** Alison Smith

**Eurofins Analytical Services Manager : Andrew Black**

| Sample Detail                                |              |              |  |      |               | Asbestos - WA guidelines | HOLD | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|----------------------------------------------|--------------|--------------|--|------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 |              |              |  |      |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 28                                           | BH06_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005971 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 29                                           | BH06_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005972 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 30                                           | BH07_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005973 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 31                                           | BH07_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005974 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 32                                           | MW01_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005975 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 33                                           | MW01_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005976 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 34                                           | MW01_1.5_1.6 | May 29, 2023 |  | Soil | S23-Jn0005977 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 35                                           | MW01_2_2.1   | May 29, 2023 |  | Soil | S23-Jn0005978 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 36                                           | MW01_3_3.1   | May 29, 2023 |  | Soil | S23-Jn0005979 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 37                                           | MW01_4_4.1   | May 29, 2023 |  | Soil | S23-Jn0005980 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 38                                           | MW01_5_5.1   | May 29, 2023 |  | Soil | S23-Jn0005981 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 39                                           | MW01_6_6.1   | May 29, 2023 |  | Soil | S23-Jn0005982 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 40                                           | MW01_7_7.1   | May 29, 2023 |  | Soil | S23-Jn0005983 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 41                                           | MW02_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005984 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |



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**Priority:** 5 Day  
**Contact Name:** Alison Smith

**Eurofins Analytical Services Manager : Andrew Black**

| Sample Detail                                |              |              |  |      |               | Asbestos - WA guidelines | HOLD | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|----------------------------------------------|--------------|--------------|--|------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 |              |              |  |      |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 42                                           | MW02_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005985 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 43                                           | MW02_1.5_1.6 | May 29, 2023 |  | Soil | S23-Jn0005986 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 44                                           | MW02_2_2.1   | May 29, 2023 |  | Soil | S23-Jn0005987 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 45                                           | MW02_3_3.1   | May 29, 2023 |  | Soil | S23-Jn0005988 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 46                                           | MW02_4_4.1   | May 29, 2023 |  | Soil | S23-Jn0005989 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 47                                           | MW02_5_5.1   | May 29, 2023 |  | Soil | S23-Jn0005990 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 48                                           | MW02_6_6.1   | May 29, 2023 |  | Soil | S23-Jn0005991 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 49                                           | MW02_7_7.1   | May 29, 2023 |  | Soil | S23-Jn0005992 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 50                                           | MW03_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005993 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 51                                           | MW03_1.5_1.6 | May 29, 2023 |  | Soil | S23-Jn0005994 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 52                                           | MW03_4_4.1   | May 29, 2023 |  | Soil | S23-Jn0005995 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 53                                           | MW03_5_5.1   | May 29, 2023 |  | Soil | S23-Jn0005996 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 54                                           | MW03_6_6.1   | May 29, 2023 |  | Soil | S23-Jn0005997 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 55                                           | MW03_8_8.1   | May 29, 2023 |  | Soil | S23-Jn0005998 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |





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Eurofins Analytical Services Manager : Andrew Black

| Sample Detail                                |              |              |  |      |               | Asbestos - W/A guidelines | HOLD | Polyyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|----------------------------------------------|--------------|--------------|--|------|---------------|---------------------------|------|---------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Sydney Laboratory - NATA # 1261 Site # 18217 |              |              |  |      |               | X                         | X    | X                               | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 56                                           | MW03_9_9.1   | May 29, 2023 |  | Soil | S23-Jn0005999 |                           | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 57                                           | MW03_10_10.1 | May 29, 2023 |  | Soil | S23-Jn0006000 |                           | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| Test Counts                                  |              |              |  |      |               | 11                        | 40   | 12                              | 7                         | 7                         | 12        | 12                | 13           | 12                | 7                                           |

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**NATA Accredited**  
**Accreditation Number 1261**  
**Site Number 18217**

Accredited for compliance with ISO/IEC 17025—Testing  
 NATA is a signatory to the ILAC Mutual Recognition  
 Arrangement for the mutual recognition of the  
 equivalence of testing, medical testing, calibration,  
 inspection, proficiency testing scheme providers and  
 reference materials producers reports and certificates.

**Attention:** Alison Smith  
**Report** 995556-AID-V3  
**Project Name** CABRAMATTA  
**Project ID** 65196  
**Received Date** May 31, 2023  
**Date Reported** Jun 19, 2023

### Methodology:

Asbestos Fibre  
 Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*

Unknown Mineral  
 Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*

Subsampling Soil  
 Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*

Bonded asbestos-  
 containing material  
 (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

**Project Name** CABRAMATTA  
**Project ID** 65196  
**Date Sampled** May 29, 2023 to May 30, 2023  
**Report** 995556-AID-V3

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description                                                                                         | Result                                                                                                                |
|------------------|---------------------|--------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| BH01_0.3_0.4     | 23-Jn0005944        | May 29, 2023 | Approximate Sample 1154g<br>Sample consisted of: Brown fine-grained clayey soil and rocks                  | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| QC01             | 23-Jn0005945        | May 29, 2023 | Approximate Sample 1004g<br>Sample consisted of: Brown fine-grained clayey soil and rocks                  | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH02_0.3_0.4     | 23-Jn0005946        | May 29, 2023 | Approximate Sample 1034g<br>Sample consisted of: Brown fine-grained clayey soil, cement, bitumen and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH03_0.3_0.4     | 23-Jn0005947        | May 29, 2023 | Approximate Sample 1186g<br>Sample consisted of: Brown fine-grained clayey soil, cement and rocks          | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH04_0.3_0.4     | 23-Jn0005948        | May 29, 2023 | Approximate Sample 1029g<br>Sample consisted of: Brown fine-grained clayey soil and rocks                  | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH05_0.3_0.4     | 23-Jn0005950        | May 30, 2023 | Approximate Sample 1084g<br>Sample consisted of: Brown fine-grained clayey soil and rocks                  | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH06_0.3_0.4     | 23-Jn0005952        | May 29, 2023 | Approximate Sample 911g<br>Sample consisted of: Brown fine-grained clayey soil, brick, cement and rocks    | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH07_0.3_0.4     | 23-Jn0005953        | May 29, 2023 | Approximate Sample 916g<br>Sample consisted of: Brown fine-grained clayey soil, cement and rocks           | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |



| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description                                                                                         | Result                                                                                                                |
|------------------|---------------------|--------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| MW01_0.3_0.4     | 23-Jn0005954        | May 29, 2023 | Approximate Sample 719g<br>Sample consisted of: Brown fine-grained clayey soil, brick, cement and rocks    | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| MW02_0.3_0.4     | 23-Jn0005955        | May 29, 2023 | Approximate Sample 1004g<br>Sample consisted of: Brown fine-grained clayey soil, glass and rocks           | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |
| MW03_0.2_0.3     | 23-Jn0005956        | May 29, 2023 | Approximate Sample 1244g<br>Sample consisted of: Brown fine-grained clayey soil, bitumen, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. |

**Sample History**

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description             | Testing Site | Extracted    | Holding Time |
|-------------------------|--------------|--------------|--------------|
| Asbestos - LTM-ASB-8020 | Sydney       | Jun 02, 2023 | Indefinite   |

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**Report #:** 995556  
**Phone:** 02 8245 0300  
**Fax:**

**Received:** May 31, 2023 5:07 PM  
**Due:** Jun 7, 2023  
**Priority:** 5 Day  
**Contact Name:** Alison Smith

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail                                  |              |              |               |        |               | Asbestos - WA guidelines | HOLD | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|------------------------------------------------|--------------|--------------|---------------|--------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |               |        |               |                          |      |                                  |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |               |        |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| External Laboratory                            |              |              |               |        |               |                          |      |                                  |                           |                           |           |                   |              |                   |                                             |
| No                                             | Sample ID    | Sample Date  | Sampling Time | Matrix | LAB ID        |                          |      |                                  |                           |                           |           |                   |              |                   |                                             |
| 1                                              | BH01_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005944 | X                        |      | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 2                                              | QC01         | May 29, 2023 |               | Soil   | S23-Jn0005945 | X                        |      | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 3                                              | BH02_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005946 | X                        |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 4                                              | BH03_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005947 | X                        |      | X                                | X                         | X                         | X         | X                 | X            | X                 |                                             |
| 5                                              | BH04_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005948 | X                        |      |                                  |                           |                           |           |                   |              |                   |                                             |
| 6                                              | BH04_1_1.1   | May 29, 2023 |               | Soil   | S23-Jn0005949 |                          |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 7                                              | BH05_0.3_0.4 | May 30, 2023 |               | Soil   | S23-Jn0005950 | X                        |      |                                  |                           |                           |           |                   | X            |                   | X                                           |
| 8                                              | BH05_0.5_0.6 | May 30, 2023 |               | Soil   | S23-Jn0005951 |                          |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 9                                              | BH06_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005952 | X                        |      | X                                | X                         | X                         | X         | X                 | X            | X                 |                                             |
| 10                                             | BH07_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005953 | X                        |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 11                                             | MW01_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005954 | X                        |      | X                                | X                         | X                         | X         |                   | X            |                   | X                                           |



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|------------------------------------------------|--------------|--------------|--|-------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |  |       |               |                          |      |                                  |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |  |       |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 12                                             | MW02_0.3_0.4 | May 29, 2023 |  | Soil  | S23-Jn0005955 | X                        |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 13                                             | MW03_0.2_0.3 | May 29, 2023 |  | Soil  | S23-Jn0005956 | X                        |      |                                  |                           |                           |           |                   |              |                   |                                             |
| 14                                             | MW03_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005957 |                          |      | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 15                                             | MW03_7_7.1   | May 29, 2023 |  | Soil  | S23-Jn0005958 |                          |      |                                  |                           |                           |           | X                 | X            | X                 |                                             |
| 16                                             | BLANK        | May 29, 2023 |  | Water | S23-Jn0005959 |                          |      |                                  |                           |                           |           |                   |              |                   | X                                           |
| 17                                             | RINSATE      | May 29, 2023 |  | Water | S23-Jn0005960 |                          |      | X                                | X                         | X                         | X         | X                 |              | X                 | X                                           |
| 18                                             | BH01_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005961 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 19                                             | BH01_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005962 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 20                                             | BH02_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005963 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 21                                             | BH02_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005964 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 22                                             | BH03_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005965 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 23                                             | BH03_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005966 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 24                                             | BH04_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005967 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |

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|------------------------------------------------|--------------|--------------|--|------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |  |      |               |                          |      |                                  |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |  |      |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 25                                             | BH05_1_1.1   | May 30, 2023 |  | Soil | S23-Jn0005968 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 26                                             | BH05_1.5_1.6 | May 30, 2023 |  | Soil | S23-Jn0005969 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 27                                             | QC02         | May 30, 2023 |  | Soil | S23-Jn0005970 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 28                                             | BH06_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005971 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 29                                             | BH06_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005972 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 30                                             | BH07_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005973 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 31                                             | BH07_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005974 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 32                                             | MW01_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005975 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 33                                             | MW01_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005976 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 34                                             | MW01_1.5_1.6 | May 29, 2023 |  | Soil | S23-Jn0005977 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 35                                             | MW01_2_2.1   | May 29, 2023 |  | Soil | S23-Jn0005978 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 36                                             | MW01_3_3.1   | May 29, 2023 |  | Soil | S23-Jn0005979 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 37                                             | MW01_4_4.1   | May 29, 2023 |  | Soil | S23-Jn0005980 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |

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|------------------------------------------------|--------------|--------------|--|------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |  |      |               |                          |      |                                  |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |  |      |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 38                                             | MW01_5_5.1   | May 29, 2023 |  | Soil | S23-Jn0005981 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 39                                             | MW01_6_6.1   | May 29, 2023 |  | Soil | S23-Jn0005982 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 40                                             | MW01_7_7.1   | May 29, 2023 |  | Soil | S23-Jn0005983 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 41                                             | MW02_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005984 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 42                                             | MW02_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005985 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 43                                             | MW02_1.5_1.6 | May 29, 2023 |  | Soil | S23-Jn0005986 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 44                                             | MW02_2_2.1   | May 29, 2023 |  | Soil | S23-Jn0005987 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 45                                             | MW02_3_3.1   | May 29, 2023 |  | Soil | S23-Jn0005988 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 46                                             | MW02_4_4.1   | May 29, 2023 |  | Soil | S23-Jn0005989 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 47                                             | MW02_5_5.1   | May 29, 2023 |  | Soil | S23-Jn0005990 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 48                                             | MW02_6_6.1   | May 29, 2023 |  | Soil | S23-Jn0005991 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 49                                             | MW02_7_7.1   | May 29, 2023 |  | Soil | S23-Jn0005992 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 50                                             | MW03_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005993 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |

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|------------------------------------------------|--------------|--------------|--|------|---------------|--------------------------|------|---------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |  |      |               |                          |      |                                 |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |  |      |               | X                        | X    | X                               | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 51                                             | MW03_1.5_1.6 | May 29, 2023 |  | Soil | S23-Jn0005994 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 52                                             | MW03_4_4.1   | May 29, 2023 |  | Soil | S23-Jn0005995 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 53                                             | MW03_5_5.1   | May 29, 2023 |  | Soil | S23-Jn0005996 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 54                                             | MW03_6_6.1   | May 29, 2023 |  | Soil | S23-Jn0005997 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 55                                             | MW03_8_8.1   | May 29, 2023 |  | Soil | S23-Jn0005998 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 56                                             | MW03_9_9.1   | May 29, 2023 |  | Soil | S23-Jn0005999 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 57                                             | MW03_10_10.1 | May 29, 2023 |  | Soil | S23-Jn0006000 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| Test Counts                                    |              |              |  |      |               | 11                       | 40   | 12                              | 7                         | 7                         | 12        | 12                | 13           | 12                | 7                                           |



## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

|        |                                                                                                                    |
|--------|--------------------------------------------------------------------------------------------------------------------|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples ( <b>% w/w</b> ) |
| F/fld  | Airborne fibre filter loading as Fibres ( <b>N</b> ) per Fields counted ( <b>n</b> )                               |
| F/mL   | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane ( <b>C</b> ) |
| g, kg  | Mass, e.g. of whole sample ( <b>M</b> ) or asbestos-containing find within the sample ( <b>m</b> )                 |
| g/kg   | Concentration in grams per kilogram                                                                                |
| L, mL  | Volume, e.g. of air as measured in AFM ( <b>V = r x t</b> )                                                        |
| L/min  | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane ( <b>r</b> )          |
| min    | Time ( <b>t</b> ), e.g. of air sample collection period                                                            |

## Calculations

Airborne Fibre Concentration:  $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right)$

Asbestos Content (as asbestos):  $\% w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos):  $\%_{WA} = \sum \frac{(m \times P_A) \times x}{x}$

## Terms

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>%asbestos</b>                      | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 <i>Appendix 2</i> , else assumed to be 15% in accordance with WA DOH <i>Appendix 2 (PA)</i> .                                                                                                                                                                                                                                       |
| <b>ACM</b>                            | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.                                                                                                                                                                                                                                    |
| <b>AF</b>                             | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".                                                                                                                                                                              |
| <b>AFM</b>                            | Airborne Fibre Monitoring, e.g. by the MFM.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Amosite</b>                        | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.                                                                                                                                                                                                                                                                                                                                   |
| <b>AS</b>                             | Australian Standard.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Asbestos Content (as asbestos)</b> | Total % w/w asbestos content in asbestos-containing finds in a soil sample ( <b>% w/w</b> ).                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Chrysotile</b>                     | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.                                                                                                                                                                                                                                                                                                                            |
| <b>COC</b>                            | Chain of Custody.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Crocidolite</b>                    | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.                                                                                                                                                                                                                                                                                                                           |
| <b>Dry</b>                            | Sample is dried by heating prior to analysis.                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>DS</b>                             | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>FA</b>                             | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| <b>Fibre Count</b>                    | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Fibre ID</b>                       | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.                                                                                                                                                                                                                                                                                                        |
| <b>Friable</b>                        | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.                                                                                                                                                                                                                                          |
| <b>HSG248</b>                         | UK HSE HSG248, <i>Asbestos: The Analysts Guide</i> , 2nd Edition (2021).                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>HSG264</b>                         | UK HSE HSG264, <i>Asbestos: The Survey Guide</i> (2012).                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ISO (also ISO/IEC)</b>             | International Organization for Standardization / International Electrotechnical Commission.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>K Factor</b>                       | Microscope constant ( <b>K</b> ) as derived from the effective filter area of the given AFM membrane used for collecting the sample ( <b>A</b> ) and the projected eyepiece graticule area of the specific microscope used for the analysis ( <b>a</b> ).                                                                                                                                                                                                               |
| <b>LOR</b>                            | Limit of Reporting.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>MFM (also NOHSC:3003)</b>          | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, <i>Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres</i> , 2nd Edition [NOHSC:3003(2005)].                                                                                                                                                                                                                      |
| <b>NEPM (also ASC NEPM)</b>           | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Organic</b>                        | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.                                                                                                                                                                                                                                                                                                                                         |
| <b>PCM</b>                            | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>PLM</b>                            | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.                                                                                                                                                                                                                                                                                                                                                              |
| <b>Sampling</b>                       | Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.                                                                                                                                                                                                                                                                                                                                                                    |
| <b>SMF</b>                            | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.                                                                                                                                                                                                                                                                                                                                           |
| <b>SRA</b>                            | Sample Receipt Advice.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Trace Analysis</b>                 | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.                                                                                                                                                                                                                                                                                                                                                 |
| <b>UK HSE HSG</b>                     | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UMF</b>                            | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.                                                                                                                                                                                                                         |
| <b>WA DOH</b>                         | Reference document for the NEPM. Government of Western Australia, <i>Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia</i> (updated 2021), including Appendix Four: <i>Laboratory analysis</i>                                                                                                                                                                                                              |
| <b>Weighted Average</b>               | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample ( <b>%<sub>WA</sub></b> ).                                                                                                                                                                                                                                                                                                                           |

## Comments

### Sample Integrity

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Custody Seals Intact (if used)                                          | N/A |
| Attempt to Chill was evident                                            | Yes |
| Sample correctly preserved                                              | Yes |
| Appropriate sample containers have been used                            | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime                                     | Yes |
| Some samples have been subcontracted                                    | No  |

### Asbestos Counter/Identifier:

Laxman Dias                      Senior Analyst-Asbestos

### Authorised by:

Sayeed Abu                      Senior Analyst-Asbestos



**Glenn Jackson**  
**Managing Director**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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**JBS & G Australia (NSW) P/L**  
**Level 1, 50 Margaret St**  
**Sydney**  
**NSW 2000**



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 Arrangement for the mutual recognition of the  
 equivalence of testing, medical testing, calibration,  
 inspection, proficiency testing scheme providers and  
 reference materials producers reports and certificates.

**Attention:** **Alison Smith**

**Report** **995556-S-V3**  
**Project name** **CABRAMATTA**  
**Project ID** **65196**  
**Received Date** **May 31, 2023**

| Client Sample ID                                  |     |       | BH01_0.3_0.4  | QC01          | BH02_0.3_0.4  | BH03_0.3_0.4  |
|---------------------------------------------------|-----|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                                     |     |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                               |     |       | S23-Jn0005944 | S23-Jn0005945 | S23-Jn0005946 | S23-Jn0005947 |
| Date Sampled                                      |     |       | May 29, 2023  | May 29, 2023  | May 29, 2023  | May 29, 2023  |
| Test/Reference                                    | LOR | Unit  |               |               |               |               |
| <b>Total Recoverable Hydrocarbons</b>             |     |       |               |               |               |               |
| TRH C6-C9                                         | 20  | mg/kg | < 20          | < 20          | < 20          | < 20          |
| TRH C10-C14                                       | 20  | mg/kg | < 20          | < 20          | < 20          | < 20          |
| TRH C15-C28                                       | 50  | mg/kg | < 50          | < 50          | < 50          | < 50          |
| TRH C29-C36                                       | 50  | mg/kg | < 50          | < 50          | < 50          | < 50          |
| TRH C10-C36 (Total)                               | 50  | mg/kg | < 50          | < 50          | < 50          | < 50          |
| TRH C6-C10                                        | 20  | mg/kg | < 20          | < 20          | < 20          | < 20          |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>          | 20  | mg/kg | < 20          | < 20          | < 20          | < 20          |
| TRH >C10-C16                                      | 50  | mg/kg | < 50          | < 50          | < 50          | < 50          |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50  | mg/kg | < 50          | < 50          | < 50          | < 50          |
| TRH >C16-C34                                      | 100 | mg/kg | < 100         | < 100         | < 100         | < 100         |
| TRH >C34-C40                                      | 100 | mg/kg | < 100         | < 100         | < 100         | < 100         |
| TRH >C10-C40 (total)*                             | 100 | mg/kg | < 100         | < 100         | < 100         | < 100         |
| <b>BTEX</b>                                       |     |       |               |               |               |               |
| Benzene                                           | 0.1 | mg/kg | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Toluene                                           | 0.1 | mg/kg | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Ethylbenzene                                      | 0.1 | mg/kg | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| m&p-Xylenes                                       | 0.2 | mg/kg | < 0.2         | < 0.2         | < 0.2         | < 0.2         |
| o-Xylene                                          | 0.1 | mg/kg | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Xylenes - Total*                                  | 0.3 | mg/kg | < 0.3         | < 0.3         | < 0.3         | < 0.3         |
| 4-Bromofluorobenzene (surr.)                      | 1   | %     | 86            | 95            | 110           | 78            |
| <b>Volatile Organics</b>                          |     |       |               |               |               |               |
| 1.1-Dichloroethane                                | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1-Dichloroethene                                | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.1-Trichloroethane                             | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.1.2-Tetrachloroethane                         | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.2-Trichloroethane                             | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.2.2-Tetrachloroethane                         | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dibromoethane                                 | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dichlorobenzene                               | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dichloroethane                                | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dichloropropane                               | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.3-Trichloropropane                            | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.4-Trimethylbenzene                            | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.3-Dichlorobenzene                               | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.3-Dichloropropane                               | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |

| Client Sample ID                                            |     |       | BH01_0.3_0.4  | QC01          | BH02_0.3_0.4  | BH03_0.3_0.4  |
|-------------------------------------------------------------|-----|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                                               |     |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                                         |     |       | S23-Jn0005944 | S23-Jn0005945 | S23-Jn0005946 | S23-Jn0005947 |
| Date Sampled                                                |     |       | May 29, 2023  | May 29, 2023  | May 29, 2023  | May 29, 2023  |
| Test/Reference                                              | LOR | Unit  |               |               |               |               |
| <b>Volatile Organics</b>                                    |     |       |               |               |               |               |
| 1,3,5-Trimethylbenzene                                      | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1,4-Dichlorobenzene                                         | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 2-Butanone (MEK)                                            | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 2-Propanone (Acetone)                                       | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 4-Chlorotoluene                                             | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 4-Methyl-2-pentanone (MIBK)                                 | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Allyl chloride                                              | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzene                                                     | 0.1 | mg/kg | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Bromobenzene                                                | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Bromochloromethane                                          | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Bromodichloromethane                                        | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Bromoform                                                   | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Bromomethane                                                | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Carbon disulfide                                            | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Carbon Tetrachloride                                        | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Chlorobenzene                                               | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Chloroethane                                                | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Chloroform                                                  | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Chloromethane                                               | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| cis-1,2-Dichloroethene                                      | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| cis-1,3-Dichloropropene                                     | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Dibromochloromethane                                        | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Dibromomethane                                              | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Dichlorodifluoromethane                                     | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Ethylbenzene                                                | 0.1 | mg/kg | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Iodomethane                                                 | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Isopropyl benzene (Cumene)                                  | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| m&p-Xylenes                                                 | 0.2 | mg/kg | < 0.2         | < 0.2         | < 0.2         | < 0.2         |
| Methylene Chloride                                          | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| o-Xylene                                                    | 0.1 | mg/kg | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Styrene                                                     | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Tetrachloroethene                                           | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Toluene                                                     | 0.1 | mg/kg | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| trans-1,2-Dichloroethene                                    | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| trans-1,3-Dichloropropene                                   | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Trichloroethene                                             | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Trichlorofluoromethane                                      | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Vinyl chloride                                              | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Xylenes - Total*                                            | 0.3 | mg/kg | < 0.3         | < 0.3         | < 0.3         | < 0.3         |
| Total MAH*                                                  | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Vic EPA IWRG 621 CHC (Total)*                               | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Vic EPA IWRG 621 Other CHC (Total)*                         | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 4-Bromofluorobenzene (surr.)                                | 1   | %     | 86            | 95            | 110           | 78            |
| Toluene-d8 (surr.)                                          | 1   | %     | 88            | 97            | 102           | 78            |
| <b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b> |     |       |               |               |               |               |
| Naphthalene <sup>NO2</sup>                                  | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |



| Client Sample ID                        |      |       | BH01_0.3_0.4  | QC01          | BH02_0.3_0.4  | BH03_0.3_0.4  |
|-----------------------------------------|------|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                           |      |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                     |      |       | S23-Jn0005944 | S23-Jn0005945 | S23-Jn0005946 | S23-Jn0005947 |
| Date Sampled                            |      |       | May 29, 2023  | May 29, 2023  | May 29, 2023  | May 29, 2023  |
| Test/Reference                          | LOR  | Unit  |               |               |               |               |
| <b>Polycyclic Aromatic Hydrocarbons</b> |      |       |               |               |               |               |
| Benzo(a)pyrene TEQ (lower bound) *      | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzo(a)pyrene TEQ (medium bound) *     | 0.5  | mg/kg | 0.6           | 0.6           | 0.6           | 0.6           |
| Benzo(a)pyrene TEQ (upper bound) *      | 0.5  | mg/kg | 1.2           | 1.2           | 1.2           | 1.2           |
| Acenaphthene                            | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Acenaphthylene                          | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Anthracene                              | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzo(a)anthracene                      | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzo(a)pyrene                          | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzo(b&j)fluoranthene <sup>N07</sup>   | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzo(g,h,i)perylene                    | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzo(k)fluoranthene                    | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Chrysene                                | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Dibenz(a,h)anthracene                   | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Fluoranthene                            | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Fluorene                                | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Indeno(1,2,3-cd)pyrene                  | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Naphthalene                             | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Phenanthrene                            | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Pyrene                                  | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Total PAH*                              | 0.5  | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 2-Fluorobiphenyl (surr.)                | 1    | %     | 94            | 93            | 67            | 100           |
| p-Terphenyl-d14 (surr.)                 | 1    | %     | 71            | 77            | 52            | 75            |
| <b>Organochlorine Pesticides</b>        |      |       |               |               |               |               |
| Chlordanes - Total                      | 0.1  | mg/kg | < 0.1         | < 0.1         | -             | < 0.1         |
| 4,4'-DDD                                | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| 4,4'-DDE                                | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| 4,4'-DDT                                | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| α-HCH                                   | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Aldrin                                  | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| β-HCH                                   | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| δ-HCH                                   | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Dieldrin                                | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Endosulfan I                            | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Endosulfan II                           | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Endosulfan sulphate                     | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Endrin                                  | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Endrin aldehyde                         | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Endrin ketone                           | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| γ-HCH (Lindane)                         | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Heptachlor                              | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Heptachlor epoxide                      | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Hexachlorobenzene                       | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Methoxychlor                            | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Toxaphene                               | 0.5  | mg/kg | < 0.5         | < 0.5         | -             | < 0.5         |
| Aldrin and Dieldrin (Total)*            | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| DDT + DDE + DDD (Total)*                | 0.05 | mg/kg | < 0.05        | < 0.05        | -             | < 0.05        |
| Vic EPA IWRG 621 OCP (Total)*           | 0.1  | mg/kg | < 0.1         | < 0.1         | -             | < 0.1         |
| Vic EPA IWRG 621 Other OCP (Total)*     | 0.1  | mg/kg | < 0.1         | < 0.1         | -             | < 0.1         |
| Dibutylchloroendate (surr.)             | 1    | %     | 120           | 130           | -             | 112           |
| Tetrachloro-m-xylene (surr.)            | 1    | %     | 87            | 80            | -             | 83            |

| Client Sample ID                                    |     |       | BH01_0.3_0.4  | QC01          | BH02_0.3_0.4  | BH03_0.3_0.4  |
|-----------------------------------------------------|-----|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                                       |     |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                                 |     |       | S23-Jn0005944 | S23-Jn0005945 | S23-Jn0005946 | S23-Jn0005947 |
| Date Sampled                                        |     |       | May 29, 2023  | May 29, 2023  | May 29, 2023  | May 29, 2023  |
| Test/Reference                                      | LOR | Unit  |               |               |               |               |
| <b>Polychlorinated Biphenyls</b>                    |     |       |               |               |               |               |
| Aroclor-1016                                        | 0.1 | mg/kg | < 0.1         | < 0.1         | -             | < 0.1         |
| Aroclor-1221                                        | 0.1 | mg/kg | < 0.1         | < 0.1         | -             | < 0.1         |
| Aroclor-1232                                        | 0.1 | mg/kg | < 0.1         | < 0.1         | -             | < 0.1         |
| Aroclor-1242                                        | 0.1 | mg/kg | < 0.1         | < 0.1         | -             | < 0.1         |
| Aroclor-1248                                        | 0.1 | mg/kg | < 0.1         | < 0.1         | -             | < 0.1         |
| Aroclor-1254                                        | 0.1 | mg/kg | < 0.1         | < 0.1         | -             | < 0.1         |
| Aroclor-1260                                        | 0.1 | mg/kg | < 0.1         | < 0.1         | -             | < 0.1         |
| Total PCB*                                          | 0.1 | mg/kg | < 0.1         | < 0.1         | -             | < 0.1         |
| Dibutylchloroendate (surr.)                         | 1   | %     | 120           | 130           | -             | 112           |
| Tetrachloro-m-xylene (surr.)                        | 1   | %     | 87            | 80            | -             | 83            |
| <b>Heavy Metals</b>                                 |     |       |               |               |               |               |
| Arsenic                                             | 2   | mg/kg | 12            | 14            | 14            | 15            |
| Cadmium                                             | 0.4 | mg/kg | < 0.4         | < 0.4         | < 0.4         | < 0.4         |
| Chromium                                            | 5   | mg/kg | 24            | 35            | 30            | 32            |
| Copper                                              | 5   | mg/kg | 24            | 23            | 6.8           | 11            |
| Lead                                                | 5   | mg/kg | 87            | 73            | 27            | 30            |
| Mercury                                             | 0.1 | mg/kg | 0.1           | < 0.1         | < 0.1         | < 0.1         |
| Nickel                                              | 5   | mg/kg | 7.0           | 5.7           | < 5           | < 5           |
| Zinc                                                | 5   | mg/kg | 140           | 100           | 26            | 29            |
| <b>Sample Properties</b>                            |     |       |               |               |               |               |
| % Moisture                                          | 1   | %     | 19            | 21            | 14            | 19            |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>      |     |       |               |               |               |               |
| Perfluorobutanoic acid (PFBA) <sup>N11</sup>        | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluoropentanoic acid (PFPeA) <sup>N11</sup>      | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluorohexanoic acid (PFHxA) <sup>N11</sup>       | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluoroheptanoic acid (PFHpA) <sup>N11</sup>      | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluorooctanoic acid (PFOA) <sup>N11</sup>        | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluorononanoic acid (PFNA) <sup>N11</sup>        | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluorodecanoic acid (PFDA) <sup>N11</sup>        | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluoroundecanoic acid (PFUnDA) <sup>N11</sup>    | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluorododecanoic acid (PFDoDA) <sup>N11</sup>    | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluorotridecanoic acid (PFTTrDA) <sup>N15</sup>  | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluorotetradecanoic acid (PFTeDA) <sup>N11</sup> | 5   | ug/kg | < 5           | < 5           | -             | -             |
| 13C4-PFBA (surr.)                                   | 1   | %     | 98            | 95            | -             | -             |
| 13C5-PFPeA (surr.)                                  | 1   | %     | 100           | 96            | -             | -             |
| 13C5-PFHxA (surr.)                                  | 1   | %     | 99            | 96            | -             | -             |
| 13C4-PFHpA (surr.)                                  | 1   | %     | 93            | 95            | -             | -             |
| 13C8-PFOA (surr.)                                   | 1   | %     | 92            | 95            | -             | -             |
| 13C5-PFNA (surr.)                                   | 1   | %     | 104           | 105           | -             | -             |
| 13C6-PFDA (surr.)                                   | 1   | %     | 115           | 114           | -             | -             |
| 13C2-PFUnDA (surr.)                                 | 1   | %     | 118           | 111           | -             | -             |
| 13C2-PFDoDA (surr.)                                 | 1   | %     | 107           | 109           | -             | -             |
| 13C2-PFTeDA (surr.)                                 | 1   | %     | 106           | 126           | -             | -             |

| Client Sample ID                                                            |     |       | BH01_0.3_0.4  | QC01          | BH02_0.3_0.4  | BH03_0.3_0.4  |
|-----------------------------------------------------------------------------|-----|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                                                               |     |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                                                         |     |       | S23-Jn0005944 | S23-Jn0005945 | S23-Jn0005946 | S23-Jn0005947 |
| Date Sampled                                                                |     |       | May 29, 2023  | May 29, 2023  | May 29, 2023  | May 29, 2023  |
| Test/Reference                                                              | LOR | Unit  |               |               |               |               |
| <b>Perfluoroalkyl sulfonamido substances</b>                                |     |       |               |               |               |               |
| Perfluorooctane sulfonamide (FOSA) <sup>N11</sup>                           | 5   | ug/kg | < 5           | < 5           | -             | -             |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) <sup>N11</sup>            | 5   | ug/kg | < 5           | < 5           | -             | -             |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) <sup>N11</sup>             | 5   | ug/kg | < 5           | < 5           | -             | -             |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) <sup>N11</sup> | 5   | ug/kg | < 5           | < 5           | -             | -             |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) <sup>N11</sup>  | 5   | ug/kg | < 5           | < 5           | -             | -             |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) <sup>N11</sup>    | 10  | ug/kg | < 10          | < 10          | -             | -             |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) <sup>N11</sup>   | 10  | ug/kg | < 10          | < 10          | -             | -             |
| 13C8-FOSA (surr.)                                                           | 1   | %     | 93            | 91            | -             | -             |
| D3-N-MeFOSA (surr.)                                                         | 1   | %     | 85            | 83            | -             | -             |
| D5-N-EtFOSA (surr.)                                                         | 1   | %     | 93            | 88            | -             | -             |
| D7-N-MeFOSE (surr.)                                                         | 1   | %     | 88            | 81            | -             | -             |
| D9-N-EtFOSE (surr.)                                                         | 1   | %     | 81            | 74            | -             | -             |
| D5-N-EtFOSAA (surr.)                                                        | 1   | %     | 130           | 138           | -             | -             |
| D3-N-MeFOSAA (surr.)                                                        | 1   | %     | 149           | 142           | -             | -             |
| <b>Perfluoroalkyl sulfonic acids (PFSA)</b>                                 |     |       |               |               |               |               |
| Perfluorobutanesulfonic acid (PFBS) <sup>N11</sup>                          | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluorononanesulfonic acid (PFNS) <sup>N15</sup>                          | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluoropropanesulfonic acid (PFPrS) <sup>N15</sup>                        | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluoropentanesulfonic acid (PFPeS) <sup>N15</sup>                        | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluorohexanesulfonic acid (PFHxS) <sup>N11</sup>                         | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluoroheptanesulfonic acid (PFHpS) <sup>N15</sup>                        | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluorooctanesulfonic acid (PFOS) <sup>N11</sup>                          | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Perfluorodecanesulfonic acid (PFDS) <sup>N15</sup>                          | 5   | ug/kg | < 5           | < 5           | -             | -             |
| 13C3-PFBS (surr.)                                                           | 1   | %     | 98            | 97            | -             | -             |
| 18O2-PFHxS (surr.)                                                          | 1   | %     | 99            | 100           | -             | -             |
| 13C8-PFOS (surr.)                                                           | 1   | %     | 99            | 100           | -             | -             |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA)</b>                          |     |       |               |               |               |               |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) <sup>N11</sup>          | 5   | ug/kg | < 5           | < 5           | -             | -             |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) <sup>N11</sup>           | 10  | ug/kg | < 10          | < 10          | -             | -             |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) <sup>N11</sup>          | 5   | ug/kg | < 5           | < 5           | -             | -             |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) <sup>N11</sup>       | 5   | ug/kg | < 5           | < 5           | -             | -             |
| 13C2-4:2 FTSA (surr.)                                                       | 1   | %     | 94            | 93            | -             | -             |
| 13C2-6:2 FTSA (surr.)                                                       | 1   | %     | 80            | 90            | -             | -             |
| 13C2-8:2 FTSA (surr.)                                                       | 1   | %     | INT           | INT           | -             | -             |
| 13C2-10:2 FTSA (surr.)                                                      | 1   | %     | 173           | 189           | -             | -             |
| <b>PFASs Summations</b>                                                     |     |       |               |               |               |               |
| Sum (PFHxS + PFOS)*                                                         | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Sum of US EPA PFAS (PFOS + PFOA)*                                           | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*                                 | 5   | ug/kg | < 5           | < 5           | -             | -             |
| Sum of WA DWER PFAS (n=10)*                                                 | 10  | ug/kg | < 10          | < 10          | -             | -             |
| Sum of PFASs (n=30)*                                                        | 50  | ug/kg | < 50          | < 50          | -             | -             |

| Client Sample ID                                  |     |       | BH04_1_1.1    | BH05_0.3_0.4  | BH05_0.5_0.6  | G01 BH06_0.3_0.4 |
|---------------------------------------------------|-----|-------|---------------|---------------|---------------|------------------|
| Sample Matrix                                     |     |       | Soil          | Soil          | Soil          | Soil             |
| Eurofins Sample No.                               |     |       | S23-Jn0005949 | S23-Jn0005950 | S23-Jn0005951 | S23-Jn0005952    |
| Date Sampled                                      |     |       | May 29, 2023  | May 30, 2023  | May 30, 2023  | May 29, 2023     |
| Test/Reference                                    | LOR | Unit  |               |               |               |                  |
| <b>Total Recoverable Hydrocarbons</b>             |     |       |               |               |               |                  |
| TRH C6-C9                                         | 20  | mg/kg | < 20          | -             | < 20          | < 20             |
| TRH C10-C14                                       | 20  | mg/kg | < 20          | -             | < 20          | < 20             |
| TRH C15-C28                                       | 50  | mg/kg | < 50          | -             | < 50          | 52               |
| TRH C29-C36                                       | 50  | mg/kg | < 50          | -             | < 50          | 52               |
| TRH C10-C36 (Total)                               | 50  | mg/kg | < 50          | -             | < 50          | 104              |
| TRH C6-C10                                        | 20  | mg/kg | < 20          | -             | < 20          | < 20             |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>          | 20  | mg/kg | < 20          | -             | < 20          | < 20             |
| TRH >C10-C16                                      | 50  | mg/kg | < 50          | -             | < 50          | < 50             |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50  | mg/kg | < 50          | -             | < 50          | < 50             |
| TRH >C16-C34                                      | 100 | mg/kg | < 100         | -             | < 100         | < 100            |
| TRH >C34-C40                                      | 100 | mg/kg | < 100         | -             | < 100         | < 100            |
| TRH >C10-C40 (total)*                             | 100 | mg/kg | < 100         | -             | < 100         | < 100            |
| <b>BTEX</b>                                       |     |       |               |               |               |                  |
| Benzene                                           | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1            |
| Toluene                                           | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1            |
| Ethylbenzene                                      | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1            |
| m&p-Xylenes                                       | 0.2 | mg/kg | < 0.2         | -             | < 0.2         | < 0.2            |
| o-Xylene                                          | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1            |
| Xylenes - Total*                                  | 0.3 | mg/kg | < 0.3         | -             | < 0.3         | < 0.3            |
| 4-Bromofluorobenzene (surr.)                      | 1   | %     | 105           | -             | 111           | 97               |
| <b>Volatile Organics</b>                          |     |       |               |               |               |                  |
| 1.1-Dichloroethane                                | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.1-Dichloroethene                                | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.1.1-Trichloroethane                             | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.1.1.2-Tetrachloroethane                         | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.1.2-Trichloroethane                             | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.1.2.2-Tetrachloroethane                         | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.2-Dibromoethane                                 | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.2-Dichlorobenzene                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.2-Dichloroethane                                | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.2-Dichloropropane                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.2.3-Trichloropropane                            | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.2.4-Trimethylbenzene                            | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.3-Dichlorobenzene                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.3-Dichloropropane                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.3.5-Trimethylbenzene                            | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 1.4-Dichlorobenzene                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 2-Butanone (MEK)                                  | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 2-Propanone (Acetone)                             | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 4-Chlorotoluene                                   | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 4-Methyl-2-pentanone (MIBK)                       | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Allyl chloride                                    | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Benzene                                           | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1            |
| Bromobenzene                                      | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Bromochloromethane                                | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Bromodichloromethane                              | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Bromoform                                         | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Bromomethane                                      | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Carbon disulfide                                  | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |



| Client Sample ID                                            |     |       | BH04_1_1.1    | BH05_0.3_0.4  | BH05_0.5_0.6  | G01 BH06_0.3_0.4 |
|-------------------------------------------------------------|-----|-------|---------------|---------------|---------------|------------------|
| Sample Matrix                                               |     |       | Soil          | Soil          | Soil          | Soil             |
| Eurofins Sample No.                                         |     |       | S23-Jn0005949 | S23-Jn0005950 | S23-Jn0005951 | S23-Jn0005952    |
| Date Sampled                                                |     |       | May 29, 2023  | May 30, 2023  | May 30, 2023  | May 29, 2023     |
| Test/Reference                                              | LOR | Unit  |               |               |               |                  |
| <b>Volatile Organics</b>                                    |     |       |               |               |               |                  |
| Carbon Tetrachloride                                        | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Chlorobenzene                                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Chloroethane                                                | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Chloroform                                                  | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Chloromethane                                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| cis-1.2-Dichloroethene                                      | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| cis-1.3-Dichloropropene                                     | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Dibromochloromethane                                        | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Dibromomethane                                              | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Dichlorodifluoromethane                                     | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Ethylbenzene                                                | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1            |
| Iodomethane                                                 | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Isopropyl benzene (Cumene)                                  | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| m&p-Xylenes                                                 | 0.2 | mg/kg | < 0.2         | -             | < 0.2         | < 0.2            |
| Methylene Chloride                                          | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| o-Xylene                                                    | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1            |
| Styrene                                                     | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Tetrachloroethene                                           | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Toluene                                                     | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1            |
| trans-1.2-Dichloroethene                                    | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| trans-1.3-Dichloropropene                                   | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Trichloroethene                                             | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Trichlorofluoromethane                                      | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Vinyl chloride                                              | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Xylenes - Total*                                            | 0.3 | mg/kg | < 0.3         | -             | < 0.3         | < 0.3            |
| Total MAH*                                                  | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Vic EPA IWRG 621 CHC (Total)*                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Vic EPA IWRG 621 Other CHC (Total)*                         | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| 4-Bromofluorobenzene (surr.)                                | 1   | %     | 105           | -             | 111           | 97               |
| Toluene-d8 (surr.)                                          | 1   | %     | 95            | -             | 99            | 88               |
| <b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b> |     |       |               |               |               |                  |
| Naphthalene <sup>N02</sup>                                  | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| <b>Polycyclic Aromatic Hydrocarbons</b>                     |     |       |               |               |               |                  |
| Benzo(a)pyrene TEQ (lower bound) *                          | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Benzo(a)pyrene TEQ (medium bound) *                         | 0.5 | mg/kg | 0.6           | -             | 0.6           | 0.6              |
| Benzo(a)pyrene TEQ (upper bound) *                          | 0.5 | mg/kg | 1.2           | -             | 1.2           | 1.2              |
| Acenaphthene                                                | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Acenaphthylene                                              | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Anthracene                                                  | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Benz(a)anthracene                                           | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Benzo(a)pyrene                                              | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Benzo(b&j)fluoranthene <sup>N07</sup>                       | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Benzo(g,h,i)perylene                                        | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Benzo(k)fluoranthene                                        | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Chrysene                                                    | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Dibenz(a,h)anthracene                                       | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Fluoranthene                                                | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | 0.6              |
| Fluorene                                                    | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Indeno(1.2.3-cd)pyrene                                      | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |

| Client Sample ID                        |      |       | BH04_1_1.1    | BH05_0.3_0.4  | BH05_0.5_0.6  | G01 BH06_0.3_0.4 |
|-----------------------------------------|------|-------|---------------|---------------|---------------|------------------|
| Sample Matrix                           |      |       | Soil          | Soil          | Soil          | Soil             |
| Eurofins Sample No.                     |      |       | S23-Jn0005949 | S23-Jn0005950 | S23-Jn0005951 | S23-Jn0005952    |
| Date Sampled                            |      |       | May 29, 2023  | May 30, 2023  | May 30, 2023  | May 29, 2023     |
| Test/Reference                          | LOR  | Unit  |               |               |               |                  |
| <b>Polycyclic Aromatic Hydrocarbons</b> |      |       |               |               |               |                  |
| Naphthalene                             | 0.5  | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Phenanthrene                            | 0.5  | mg/kg | < 0.5         | -             | < 0.5         | < 0.5            |
| Pyrene                                  | 0.5  | mg/kg | < 0.5         | -             | < 0.5         | 0.6              |
| Total PAH*                              | 0.5  | mg/kg | < 0.5         | -             | < 0.5         | 1.2              |
| 2-Fluorobiphenyl (surr.)                | 1    | %     | 84            | -             | 100           | 91               |
| p-Terphenyl-d14 (surr.)                 | 1    | %     | 72            | -             | 80            | 124              |
| <b>Organochlorine Pesticides</b>        |      |       |               |               |               |                  |
| Chlordanes - Total                      | 0.1  | mg/kg | -             | -             | -             | < 1              |
| 4,4'-DDD                                | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| 4,4'-DDE                                | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| 4,4'-DDT                                | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| a-HCH                                   | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Aldrin                                  | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| b-HCH                                   | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| d-HCH                                   | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Dieldrin                                | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Endosulfan I                            | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Endosulfan II                           | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Endosulfan sulphate                     | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Endrin                                  | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Endrin aldehyde                         | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Endrin ketone                           | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| g-HCH (Lindane)                         | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Heptachlor                              | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Heptachlor epoxide                      | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Hexachlorobenzene                       | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Methoxychlor                            | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Toxaphene                               | 0.5  | mg/kg | -             | -             | -             | < 10             |
| Aldrin and Dieldrin (Total)*            | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| DDT + DDE + DDD (Total)*                | 0.05 | mg/kg | -             | -             | -             | < 0.5            |
| Vic EPA IWRG 621 OCP (Total)*           | 0.1  | mg/kg | -             | -             | -             | < 1              |
| Vic EPA IWRG 621 Other OCP (Total)*     | 0.1  | mg/kg | -             | -             | -             | < 1              |
| Dibutylchlorendate (surr.)              | 1    | %     | -             | -             | -             | 146              |
| Tetrachloro-m-xylene (surr.)            | 1    | %     | -             | -             | -             | 143              |
| <b>Polychlorinated Biphenyls</b>        |      |       |               |               |               |                  |
| Aroclor-1016                            | 0.1  | mg/kg | -             | -             | -             | < 1              |
| Aroclor-1221                            | 0.1  | mg/kg | -             | -             | -             | < 1              |
| Aroclor-1232                            | 0.1  | mg/kg | -             | -             | -             | < 1              |
| Aroclor-1242                            | 0.1  | mg/kg | -             | -             | -             | < 1              |
| Aroclor-1248                            | 0.1  | mg/kg | -             | -             | -             | < 1              |
| Aroclor-1254                            | 0.1  | mg/kg | -             | -             | -             | < 1              |
| Aroclor-1260                            | 0.1  | mg/kg | -             | -             | -             | < 1              |
| Total PCB*                              | 0.1  | mg/kg | -             | -             | -             | < 1              |
| Dibutylchlorendate (surr.)              | 1    | %     | -             | -             | -             | 146              |
| Tetrachloro-m-xylene (surr.)            | 1    | %     | -             | -             | -             | 143              |

| Client Sample ID                                                            |     |       | BH04_1_1.1    | BH05_0.3_0.4  | BH05_0.5_0.6  | G01BH06_0.3_0.4 |
|-----------------------------------------------------------------------------|-----|-------|---------------|---------------|---------------|-----------------|
| Sample Matrix                                                               |     |       | Soil          | Soil          | Soil          | Soil            |
| Eurofins Sample No.                                                         |     |       | S23-Jn0005949 | S23-Jn0005950 | S23-Jn0005951 | S23-Jn0005952   |
| Date Sampled                                                                |     |       | May 29, 2023  | May 30, 2023  | May 30, 2023  | May 29, 2023    |
| Test/Reference                                                              | LOR | Unit  |               |               |               |                 |
| <b>Heavy Metals</b>                                                         |     |       |               |               |               |                 |
| Arsenic                                                                     | 2   | mg/kg | 15            | -             | 12            | 19              |
| Cadmium                                                                     | 0.4 | mg/kg | < 0.4         | -             | < 0.4         | 0.4             |
| Chromium                                                                    | 5   | mg/kg | 36            | -             | 30            | 47              |
| Copper                                                                      | 5   | mg/kg | 15            | -             | 19            | 49              |
| Lead                                                                        | 5   | mg/kg | 18            | -             | 22            | 140             |
| Mercury                                                                     | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | 0.1             |
| Nickel                                                                      | 5   | mg/kg | < 5           | -             | 5.9           | 17              |
| Zinc                                                                        | 5   | mg/kg | 9.0           | -             | 6.5           | 240             |
| <b>Sample Properties</b>                                                    |     |       |               |               |               |                 |
| % Moisture                                                                  | 1   | %     | 21            | 10            | 20            | 15              |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>                              |     |       |               |               |               |                 |
| Perfluorobutanoic acid (PFBA) <sup>N11</sup>                                | 5   | ug/kg | -             | < 5           | -             | -               |
| Perfluoropentanoic acid (PFPeA) <sup>N11</sup>                              | 5   | ug/kg | -             | < 5           | -             | -               |
| Perfluorohexanoic acid (PFHxA) <sup>N11</sup>                               | 5   | ug/kg | -             | < 5           | -             | -               |
| Perfluoroheptanoic acid (PFHpA) <sup>N11</sup>                              | 5   | ug/kg | -             | < 5           | -             | -               |
| Perfluorooctanoic acid (PFOA) <sup>N11</sup>                                | 5   | ug/kg | -             | < 5           | -             | -               |
| Perfluorononanoic acid (PFNA) <sup>N11</sup>                                | 5   | ug/kg | -             | < 5           | -             | -               |
| Perfluorodecanoic acid (PFDA) <sup>N11</sup>                                | 5   | ug/kg | -             | < 5           | -             | -               |
| Perfluoroundecanoic acid (PFUnDA) <sup>N11</sup>                            | 5   | ug/kg | -             | < 5           | -             | -               |
| Perfluorododecanoic acid (PFDoDA) <sup>N11</sup>                            | 5   | ug/kg | -             | < 5           | -             | -               |
| Perfluorotridecanoic acid (PFTeDA) <sup>N15</sup>                           | 5   | ug/kg | -             | < 5           | -             | -               |
| Perfluorotetradecanoic acid (PFTeDA) <sup>N11</sup>                         | 5   | ug/kg | -             | < 5           | -             | -               |
| 13C4-PFBA (surr.)                                                           | 1   | %     | -             | 96            | -             | -               |
| 13C5-PFPeA (surr.)                                                          | 1   | %     | -             | 96            | -             | -               |
| 13C5-PFHxA (surr.)                                                          | 1   | %     | -             | 100           | -             | -               |
| 13C4-PFHpA (surr.)                                                          | 1   | %     | -             | 95            | -             | -               |
| 13C8-PFOA (surr.)                                                           | 1   | %     | -             | 89            | -             | -               |
| 13C5-PFNA (surr.)                                                           | 1   | %     | -             | 103           | -             | -               |
| 13C6-PFDA (surr.)                                                           | 1   | %     | -             | 118           | -             | -               |
| 13C2-PFUnDA (surr.)                                                         | 1   | %     | -             | 118           | -             | -               |
| 13C2-PFDoDA (surr.)                                                         | 1   | %     | -             | 106           | -             | -               |
| 13C2-PFTeDA (surr.)                                                         | 1   | %     | -             | 113           | -             | -               |
| <b>Perfluoroalkyl sulfonamido substances</b>                                |     |       |               |               |               |                 |
| Perfluorooctane sulfonamide (FOSA) <sup>N11</sup>                           | 5   | ug/kg | -             | < 5           | -             | -               |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) <sup>N11</sup>            | 5   | ug/kg | -             | < 5           | -             | -               |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) <sup>N11</sup>             | 5   | ug/kg | -             | < 5           | -             | -               |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) <sup>N11</sup> | 5   | ug/kg | -             | < 5           | -             | -               |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) <sup>N11</sup>  | 5   | ug/kg | -             | < 5           | -             | -               |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) <sup>N11</sup>    | 10  | ug/kg | -             | < 10          | -             | -               |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) <sup>N11</sup>   | 10  | ug/kg | -             | < 10          | -             | -               |
| 13C8-FOSA (surr.)                                                           | 1   | %     | -             | 90            | -             | -               |
| D3-N-MeFOSA (surr.)                                                         | 1   | %     | -             | 85            | -             | -               |
| D5-N-EtFOSA (surr.)                                                         | 1   | %     | -             | 92            | -             | -               |
| D7-N-MeFOSE (surr.)                                                         | 1   | %     | -             | 85            | -             | -               |
| D9-N-EtFOSE (surr.)                                                         | 1   | %     | -             | 79            | -             | -               |

| Client Sample ID                                                      |     |       | BH04_1_1.1    | BH05_0.3_0.4  | BH05_0.5_0.6  | G01 BH06_0.3_0.4 |
|-----------------------------------------------------------------------|-----|-------|---------------|---------------|---------------|------------------|
| Sample Matrix                                                         |     |       | Soil          | Soil          | Soil          | Soil             |
| Eurofins Sample No.                                                   |     |       | S23-Jn0005949 | S23-Jn0005950 | S23-Jn0005951 | S23-Jn0005952    |
| Date Sampled                                                          |     |       | May 29, 2023  | May 30, 2023  | May 30, 2023  | May 29, 2023     |
| Test/Reference                                                        | LOR | Unit  |               |               |               |                  |
| <b>Perfluoroalkyl sulfonamido substances</b>                          |     |       |               |               |               |                  |
| D5-N-EtFOSAA (surr.)                                                  | 1   | %     | -             | 134           | -             | -                |
| D3-N-MeFOSAA (surr.)                                                  | 1   | %     | -             | 161           | -             | -                |
| <b>Perfluoroalkyl sulfonic acids (PFSA's)</b>                         |     |       |               |               |               |                  |
| Perfluorobutanesulfonic acid (PFBS) <sup>N11</sup>                    | 5   | ug/kg | -             | < 5           | -             | -                |
| Perfluorononanesulfonic acid (PFNS) <sup>N15</sup>                    | 5   | ug/kg | -             | < 5           | -             | -                |
| Perfluoropropanesulfonic acid (PFPrS) <sup>N15</sup>                  | 5   | ug/kg | -             | < 5           | -             | -                |
| Perfluoropentanesulfonic acid (PFPeS) <sup>N15</sup>                  | 5   | ug/kg | -             | < 5           | -             | -                |
| Perfluorohexanesulfonic acid (PFHxS) <sup>N11</sup>                   | 5   | ug/kg | -             | < 5           | -             | -                |
| Perfluoroheptanesulfonic acid (PFHpS) <sup>N15</sup>                  | 5   | ug/kg | -             | < 5           | -             | -                |
| Perfluorooctanesulfonic acid (PFOS) <sup>N11</sup>                    | 5   | ug/kg | -             | < 5           | -             | -                |
| Perfluorodecanesulfonic acid (PFDS) <sup>N15</sup>                    | 5   | ug/kg | -             | < 5           | -             | -                |
| 13C3-PFBS (surr.)                                                     | 1   | %     | -             | 98            | -             | -                |
| 18O2-PFHxS (surr.)                                                    | 1   | %     | -             | 98            | -             | -                |
| 13C8-PFOS (surr.)                                                     | 1   | %     | -             | 100           | -             | -                |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)</b>                  |     |       |               |               |               |                  |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) <sup>N11</sup>    | 5   | ug/kg | -             | < 5           | -             | -                |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) <sup>N11</sup>     | 10  | ug/kg | -             | < 10          | -             | -                |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) <sup>N11</sup>    | 5   | ug/kg | -             | < 5           | -             | -                |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) <sup>N11</sup> | 5   | ug/kg | -             | < 5           | -             | -                |
| 13C2-4:2 FTSA (surr.)                                                 | 1   | %     | -             | 89            | -             | -                |
| 13C2-6:2 FTSA (surr.)                                                 | 1   | %     | -             | 84            | -             | -                |
| 13C2-8:2 FTSA (surr.)                                                 | 1   | %     | -             | INT           | -             | -                |
| 13C2-10:2 FTSA (surr.)                                                | 1   | %     | -             | 198           | -             | -                |
| <b>PFASs Summations</b>                                               |     |       |               |               |               |                  |
| Sum (PFHxS + PFOS)*                                                   | 5   | ug/kg | -             | < 5           | -             | -                |
| Sum of US EPA PFAS (PFOS + PFOA)*                                     | 5   | ug/kg | -             | < 5           | -             | -                |
| Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*                           | 5   | ug/kg | -             | < 5           | -             | -                |
| Sum of WA DWER PFAS (n=10)*                                           | 10  | ug/kg | -             | < 10          | -             | -                |
| Sum of PFASs (n=30)*                                                  | 50  | ug/kg | -             | < 50          | -             | -                |

| Client Sample ID                         |     |       | BH07_0.3_0.4  | MW01_0.3_0.4  | MW02_0.3_0.4  | MW03_1_1.1    |
|------------------------------------------|-----|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                            |     |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                      |     |       | S23-Jn0005953 | S23-Jn0005954 | S23-Jn0005955 | S23-Jn0005957 |
| Date Sampled                             |     |       | May 29, 2023  | May 29, 2023  | May 29, 2023  | May 29, 2023  |
| Test/Reference                           | LOR | Unit  |               |               |               |               |
| <b>Total Recoverable Hydrocarbons</b>    |     |       |               |               |               |               |
| TRH C6-C9                                | 20  | mg/kg | < 20          | -             | < 20          | < 20          |
| TRH C10-C14                              | 20  | mg/kg | < 20          | -             | < 20          | < 20          |
| TRH C15-C28                              | 50  | mg/kg | < 50          | -             | 66            | < 50          |
| TRH C29-C36                              | 50  | mg/kg | < 50          | -             | 51            | < 50          |
| TRH C10-C36 (Total)                      | 50  | mg/kg | < 50          | -             | 117           | < 50          |
| TRH C6-C10                               | 20  | mg/kg | < 20          | -             | < 20          | < 20          |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup> | 20  | mg/kg | < 20          | -             | < 20          | < 20          |
| TRH >C10-C16                             | 50  | mg/kg | < 50          | -             | < 50          | < 50          |



| Client Sample ID                                  |     |       | BH07_0.3_0.4  | MW01_0.3_0.4  | MW02_0.3_0.4  | MW03_1_1.1    |
|---------------------------------------------------|-----|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                                     |     |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                               |     |       | S23-Jn0005953 | S23-Jn0005954 | S23-Jn0005955 | S23-Jn0005957 |
| Date Sampled                                      |     |       | May 29, 2023  | May 29, 2023  | May 29, 2023  | May 29, 2023  |
| Test/Reference                                    | LOR | Unit  |               |               |               |               |
| <b>Total Recoverable Hydrocarbons</b>             |     |       |               |               |               |               |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50  | mg/kg | < 50          | -             | < 50          | < 50          |
| TRH >C16-C34                                      | 100 | mg/kg | < 100         | -             | 100           | < 100         |
| TRH >C34-C40                                      | 100 | mg/kg | < 100         | -             | < 100         | < 100         |
| TRH >C10-C40 (total)*                             | 100 | mg/kg | < 100         | -             | 100           | < 100         |
| <b>BTEX</b>                                       |     |       |               |               |               |               |
| Benzene                                           | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1         |
| Toluene                                           | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1         |
| Ethylbenzene                                      | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1         |
| m&p-Xylenes                                       | 0.2 | mg/kg | < 0.2         | -             | < 0.2         | < 0.2         |
| o-Xylene                                          | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1         |
| Xylenes - Total*                                  | 0.3 | mg/kg | < 0.3         | -             | < 0.3         | < 0.3         |
| 4-Bromofluorobenzene (surr.)                      | 1   | %     | 100           | -             | 81            | 54            |
| <b>Volatile Organics</b>                          |     |       |               |               |               |               |
| 1.1-Dichloroethane                                | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.1-Dichloroethene                                | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.1.1-Trichloroethane                             | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.1.1.2-Tetrachloroethane                         | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.1.2-Trichloroethane                             | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.1.2.2-Tetrachloroethane                         | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.2-Dibromoethane                                 | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.2-Dichlorobenzene                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.2-Dichloroethane                                | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.2-Dichloropropane                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.2.3-Trichloropropane                            | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.2.4-Trimethylbenzene                            | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.3-Dichlorobenzene                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.3-Dichloropropane                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.3.5-Trimethylbenzene                            | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 1.4-Dichlorobenzene                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 2-Butanone (MEK)                                  | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 2-Propanone (Acetone)                             | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 4-Chlorotoluene                                   | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 4-Methyl-2-pentanone (MIBK)                       | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Allyl chloride                                    | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Benzene                                           | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1         |
| Bromobenzene                                      | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Bromochloromethane                                | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Bromodichloromethane                              | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Bromoform                                         | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Bromomethane                                      | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Carbon disulfide                                  | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Carbon Tetrachloride                              | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Chlorobenzene                                     | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Chloroethane                                      | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Chloroform                                        | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Chloromethane                                     | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| cis-1.2-Dichloroethene                            | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| cis-1.3-Dichloropropene                           | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Dibromochloromethane                              | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |

| Client Sample ID                                            |     |       | BH07_0.3_0.4  | MW01_0.3_0.4  | MW02_0.3_0.4  | MW03_1_1.1    |
|-------------------------------------------------------------|-----|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                                               |     |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                                         |     |       | S23-Jn0005953 | S23-Jn0005954 | S23-Jn0005955 | S23-Jn0005957 |
| Date Sampled                                                |     |       | May 29, 2023  | May 29, 2023  | May 29, 2023  | May 29, 2023  |
| Test/Reference                                              | LOR | Unit  |               |               |               |               |
| <b>Volatile Organics</b>                                    |     |       |               |               |               |               |
| Dibromomethane                                              | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Dichlorodifluoromethane                                     | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Ethylbenzene                                                | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1         |
| Iodomethane                                                 | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Isopropyl benzene (Cumene)                                  | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| m&p-Xylenes                                                 | 0.2 | mg/kg | < 0.2         | -             | < 0.2         | < 0.2         |
| Methylene Chloride                                          | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| o-Xylene                                                    | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1         |
| Styrene                                                     | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Tetrachloroethene                                           | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Toluene                                                     | 0.1 | mg/kg | < 0.1         | -             | < 0.1         | < 0.1         |
| trans-1.2-Dichloroethene                                    | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| trans-1.3-Dichloropropene                                   | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Trichloroethene                                             | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Trichlorofluoromethane                                      | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Vinyl chloride                                              | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Xylenes - Total*                                            | 0.3 | mg/kg | < 0.3         | -             | < 0.3         | < 0.3         |
| Total MAH*                                                  | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Vic EPA IWRG 621 CHC (Total)*                               | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| Vic EPA IWRG 621 Other CHC (Total)*                         | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| 4-Bromofluorobenzene (surr.)                                | 1   | %     | 100           | -             | 81            | 54            |
| Toluene-d8 (surr.)                                          | 1   | %     | 91            | -             | 68            | 53            |
| <b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b> |     |       |               |               |               |               |
| Naphthalene <sup>N02</sup>                                  | 0.5 | mg/kg | < 0.5         | -             | < 0.5         | < 0.5         |
| <b>Polycyclic Aromatic Hydrocarbons</b>                     |     |       |               |               |               |               |
| Benzo(a)pyrene TEQ (lower bound) *                          | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzo(a)pyrene TEQ (medium bound) *                         | 0.5 | mg/kg | 0.6           | 0.6           | 0.6           | 0.6           |
| Benzo(a)pyrene TEQ (upper bound) *                          | 0.5 | mg/kg | 1.2           | 1.2           | 1.2           | 1.2           |
| Acenaphthene                                                | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Acenaphthylene                                              | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Anthracene                                                  | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benz(a)anthracene                                           | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzo(a)pyrene                                              | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzo(b&j)fluoranthene <sup>N07</sup>                       | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzo(g,h,i)perylene                                        | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzo(k)fluoranthene                                        | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Chrysene                                                    | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Dibenz(a,h)anthracene                                       | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Fluoranthene                                                | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Fluorene                                                    | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Indeno(1.2.3-cd)pyrene                                      | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Naphthalene                                                 | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Phenanthrene                                                | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Pyrene                                                      | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Total PAH*                                                  | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 2-Fluorobiphenyl (surr.)                                    | 1   | %     | 81            | 126           | 100           | 98            |
| p-Terphenyl-d14 (surr.)                                     | 1   | %     | 77            | 88            | 82            | 80            |

| Client Sample ID                    |      |       | BH07_0.3_0.4  | MW01_0.3_0.4  | MW02_0.3_0.4  | MW03_1_1.1    |
|-------------------------------------|------|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                       |      |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                 |      |       | S23-Jn0005953 | S23-Jn0005954 | S23-Jn0005955 | S23-Jn0005957 |
| Date Sampled                        |      |       | May 29, 2023  | May 29, 2023  | May 29, 2023  | May 29, 2023  |
| Test/Reference                      | LOR  | Unit  |               |               |               |               |
| <b>Organochlorine Pesticides</b>    |      |       |               |               |               |               |
| Chlordanes - Total                  | 0.1  | mg/kg | -             | < 0.1         | -             | < 0.1         |
| 4,4'-DDD                            | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| 4,4'-DDE                            | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| 4,4'-DDT                            | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| a-HCH                               | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Aldrin                              | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| b-HCH                               | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| d-HCH                               | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Dieldrin                            | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Endosulfan I                        | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Endosulfan II                       | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Endosulfan sulphate                 | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Endrin                              | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Endrin aldehyde                     | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Endrin ketone                       | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| g-HCH (Lindane)                     | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Heptachlor                          | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Heptachlor epoxide                  | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Hexachlorobenzene                   | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Methoxychlor                        | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Toxaphene                           | 0.5  | mg/kg | -             | < 0.5         | -             | < 0.5         |
| Aldrin and Dieldrin (Total)*        | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| DDT + DDE + DDD (Total)*            | 0.05 | mg/kg | -             | < 0.05        | -             | < 0.05        |
| Vic EPA IWRG 621 OCP (Total)*       | 0.1  | mg/kg | -             | < 0.1         | -             | < 0.1         |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1  | mg/kg | -             | < 0.1         | -             | < 0.1         |
| Dibutylchloredate (surr.)           | 1    | %     | -             | 128           | -             | 106           |
| Tetrachloro-m-xylene (surr.)        | 1    | %     | -             | 117           | -             | 85            |
| <b>Polychlorinated Biphenyls</b>    |      |       |               |               |               |               |
| Aroclor-1016                        | 0.1  | mg/kg | -             | < 0.1         | -             | < 0.1         |
| Aroclor-1221                        | 0.1  | mg/kg | -             | < 0.1         | -             | < 0.1         |
| Aroclor-1232                        | 0.1  | mg/kg | -             | < 0.1         | -             | < 0.1         |
| Aroclor-1242                        | 0.1  | mg/kg | -             | < 0.1         | -             | < 0.1         |
| Aroclor-1248                        | 0.1  | mg/kg | -             | < 0.1         | -             | < 0.1         |
| Aroclor-1254                        | 0.1  | mg/kg | -             | < 0.1         | -             | < 0.1         |
| Aroclor-1260                        | 0.1  | mg/kg | -             | < 0.1         | -             | < 0.1         |
| Total PCB*                          | 0.1  | mg/kg | -             | < 0.1         | -             | < 0.1         |
| Dibutylchloredate (surr.)           | 1    | %     | -             | 128           | -             | 106           |
| Tetrachloro-m-xylene (surr.)        | 1    | %     | -             | 117           | -             | 85            |
| <b>Heavy Metals</b>                 |      |       |               |               |               |               |
| Arsenic                             | 2    | mg/kg | 7.8           | 15            | 13            | 27            |
| Cadmium                             | 0.4  | mg/kg | < 0.4         | < 0.4         | < 0.4         | < 0.4         |
| Chromium                            | 5    | mg/kg | 19            | 33            | 65            | 49            |
| Copper                              | 5    | mg/kg | 20            | 17            | 45            | < 5           |
| Lead                                | 5    | mg/kg | 63            | 40            | 420           | 19            |
| Mercury                             | 0.1  | mg/kg | 0.1           | < 0.1         | 0.1           | < 0.1         |
| Nickel                              | 5    | mg/kg | 5.6           | < 5           | 17            | < 5           |
| Zinc                                | 5    | mg/kg | 78            | 34            | 230           | < 5           |
| <b>Sample Properties</b>            |      |       |               |               |               |               |
| % Moisture                          | 1    | %     | 23            | 25            | 18            | 13            |

| Client Sample ID                                                            |     |       | BH07_0.3_0.4  | MW01_0.3_0.4  | MW02_0.3_0.4  | MW03_1_1.1    |
|-----------------------------------------------------------------------------|-----|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                                                               |     |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                                                         |     |       | S23-Jn0005953 | S23-Jn0005954 | S23-Jn0005955 | S23-Jn0005957 |
| Date Sampled                                                                |     |       | May 29, 2023  | May 29, 2023  | May 29, 2023  | May 29, 2023  |
| Test/Reference                                                              | LOR | Unit  |               |               |               |               |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>                              |     |       |               |               |               |               |
| Perfluorobutanoic acid (PFBA) <sup>N11</sup>                                | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluoropentanoic acid (PFPeA) <sup>N11</sup>                              | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluorohexanoic acid (PFHxA) <sup>N11</sup>                               | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluoroheptanoic acid (PFHpA) <sup>N11</sup>                              | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluorooctanoic acid (PFOA) <sup>N11</sup>                                | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluorononanoic acid (PFNA) <sup>N11</sup>                                | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluorodecanoic acid (PFDA) <sup>N11</sup>                                | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluoroundecanoic acid (PFUnDA) <sup>N11</sup>                            | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluorododecanoic acid (PFDoDA) <sup>N11</sup>                            | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluorotridecanoic acid (PFTrDA) <sup>N15</sup>                           | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluorotetradecanoic acid (PFTeDA) <sup>N11</sup>                         | 5   | ug/kg | -             | < 5           | -             | < 5           |
| 13C4-PFBA (surr.)                                                           | 1   | %     | -             | 101           | -             | 99            |
| 13C5-PFPeA (surr.)                                                          | 1   | %     | -             | 101           | -             | 102           |
| 13C5-PFHxA (surr.)                                                          | 1   | %     | -             | 101           | -             | 98            |
| 13C4-PFHpA (surr.)                                                          | 1   | %     | -             | 96            | -             | 98            |
| 13C8-PFOA (surr.)                                                           | 1   | %     | -             | 92            | -             | 93            |
| 13C5-PFNA (surr.)                                                           | 1   | %     | -             | 110           | -             | 108           |
| 13C6-PFDA (surr.)                                                           | 1   | %     | -             | 121           | -             | 118           |
| 13C2-PFUnDA (surr.)                                                         | 1   | %     | -             | 124           | -             | 116           |
| 13C2-PFDoDA (surr.)                                                         | 1   | %     | -             | 108           | -             | 105           |
| 13C2-PFTeDA (surr.)                                                         | 1   | %     | -             | 108           | -             | 104           |
| <b>Perfluoroalkyl sulfonamido substances</b>                                |     |       |               |               |               |               |
| Perfluorooctane sulfonamide (FOSA) <sup>N11</sup>                           | 5   | ug/kg | -             | < 5           | -             | < 5           |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) <sup>N11</sup>            | 5   | ug/kg | -             | < 5           | -             | < 5           |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) <sup>N11</sup>             | 5   | ug/kg | -             | < 5           | -             | < 5           |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) <sup>N11</sup> | 5   | ug/kg | -             | < 5           | -             | < 5           |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) <sup>N11</sup>  | 5   | ug/kg | -             | < 5           | -             | < 5           |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) <sup>N11</sup>    | 10  | ug/kg | -             | < 10          | -             | < 10          |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) <sup>N11</sup>   | 10  | ug/kg | -             | < 10          | -             | < 10          |
| 13C8-FOSA (surr.)                                                           | 1   | %     | -             | 91            | -             | 94            |
| D3-N-MeFOSA (surr.)                                                         | 1   | %     | -             | 92            | -             | 89            |
| D5-N-EtFOSA (surr.)                                                         | 1   | %     | -             | 93            | -             | 96            |
| D7-N-MeFOSE (surr.)                                                         | 1   | %     | -             | 89            | -             | 91            |
| D9-N-EtFOSE (surr.)                                                         | 1   | %     | -             | 86            | -             | 83            |
| D5-N-EtFOSAA (surr.)                                                        | 1   | %     | -             | 126           | -             | 124           |
| D3-N-MeFOSAA (surr.)                                                        | 1   | %     | -             | 146           | -             | 157           |
| <b>Perfluoroalkyl sulfonic acids (PFSAs)</b>                                |     |       |               |               |               |               |
| Perfluorobutanesulfonic acid (PFBS) <sup>N11</sup>                          | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluorononanesulfonic acid (PFNS) <sup>N15</sup>                          | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluoropropanesulfonic acid (PFPrS) <sup>N15</sup>                        | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluoropentanesulfonic acid (PFPeS) <sup>N15</sup>                        | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluorohexanesulfonic acid (PFHxS) <sup>N11</sup>                         | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluoroheptanesulfonic acid (PFHpS) <sup>N15</sup>                        | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluorooctanesulfonic acid (PFOS) <sup>N11</sup>                          | 5   | ug/kg | -             | < 5           | -             | < 5           |
| Perfluorodecanesulfonic acid (PFDS) <sup>N15</sup>                          | 5   | ug/kg | -             | < 5           | -             | < 5           |
| 13C3-PFBS (surr.)                                                           | 1   | %     | -             | 100           | -             | 95            |



|                                                                       |     |       |                      |                      |                      |                      |
|-----------------------------------------------------------------------|-----|-------|----------------------|----------------------|----------------------|----------------------|
| <b>Client Sample ID</b>                                               |     |       | <b>BH07_0.3_0.4</b>  | <b>MW01_0.3_0.4</b>  | <b>MW02_0.3_0.4</b>  | <b>MW03_1_1.1</b>    |
| <b>Sample Matrix</b>                                                  |     |       | <b>Soil</b>          | <b>Soil</b>          | <b>Soil</b>          | <b>Soil</b>          |
| <b>Eurofins Sample No.</b>                                            |     |       | <b>S23-Jn0005953</b> | <b>S23-Jn0005954</b> | <b>S23-Jn0005955</b> | <b>S23-Jn0005957</b> |
| <b>Date Sampled</b>                                                   |     |       | <b>May 29, 2023</b>  | <b>May 29, 2023</b>  | <b>May 29, 2023</b>  | <b>May 29, 2023</b>  |
| Test/Reference                                                        | LOR | Unit  |                      |                      |                      |                      |
| <b>Perfluoroalkyl sulfonic acids (PFASs)</b>                          |     |       |                      |                      |                      |                      |
| 18O2-PFHxS (surr.)                                                    | 1   | %     | -                    | 97                   | -                    | 94                   |
| 13C8-PFOS (surr.)                                                     | 1   | %     | -                    | 102                  | -                    | 100                  |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA)</b>                    |     |       |                      |                      |                      |                      |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) <sup>N11</sup>    | 5   | ug/kg | -                    | < 5                  | -                    | < 5                  |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) <sup>N11</sup>     | 10  | ug/kg | -                    | < 10                 | -                    | < 10                 |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) <sup>N11</sup>    | 5   | ug/kg | -                    | < 5                  | -                    | < 5                  |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) <sup>N11</sup> | 5   | ug/kg | -                    | < 5                  | -                    | < 5                  |
| 13C2-4:2 FTSA (surr.)                                                 | 1   | %     | -                    | 87                   | -                    | 88                   |
| 13C2-6:2 FTSA (surr.)                                                 | 1   | %     | -                    | 88                   | -                    | 84                   |
| 13C2-8:2 FTSA (surr.)                                                 | 1   | %     | -                    | INT                  | -                    | INT                  |
| 13C2-10:2 FTSA (surr.)                                                | 1   | %     | -                    | 181                  | -                    | 184                  |
| <b>PFASs Summations</b>                                               |     |       |                      |                      |                      |                      |
| Sum (PFHxS + PFOS)*                                                   | 5   | ug/kg | -                    | < 5                  | -                    | < 5                  |
| Sum of US EPA PFAS (PFOS + PFOA)*                                     | 5   | ug/kg | -                    | < 5                  | -                    | < 5                  |
| Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*                           | 5   | ug/kg | -                    | < 5                  | -                    | < 5                  |
| Sum of WA DWER PFAS (n=10)*                                           | 10  | ug/kg | -                    | < 10                 | -                    | < 10                 |
| Sum of PFASs (n=30)*                                                  | 50  | ug/kg | -                    | < 50                 | -                    | < 50                 |

|                                                   |     |       |                      |
|---------------------------------------------------|-----|-------|----------------------|
| <b>Client Sample ID</b>                           |     |       | <b>MW03_7_7.1</b>    |
| <b>Sample Matrix</b>                              |     |       | <b>Soil</b>          |
| <b>Eurofins Sample No.</b>                        |     |       | <b>S23-Jn0005958</b> |
| <b>Date Sampled</b>                               |     |       | <b>May 29, 2023</b>  |
| Test/Reference                                    | LOR | Unit  |                      |
| <b>Total Recoverable Hydrocarbons</b>             |     |       |                      |
| TRH C6-C9                                         | 20  | mg/kg | < 20                 |
| TRH C10-C14                                       | 20  | mg/kg | < 20                 |
| TRH C15-C28                                       | 50  | mg/kg | < 50                 |
| TRH C29-C36                                       | 50  | mg/kg | < 50                 |
| TRH C10-C36 (Total)                               | 50  | mg/kg | < 50                 |
| TRH C6-C10                                        | 20  | mg/kg | < 20                 |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>          | 20  | mg/kg | < 20                 |
| TRH >C10-C16                                      | 50  | mg/kg | < 50                 |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 50  | mg/kg | < 50                 |
| TRH >C16-C34                                      | 100 | mg/kg | < 100                |
| TRH >C34-C40                                      | 100 | mg/kg | < 100                |
| TRH >C10-C40 (total)*                             | 100 | mg/kg | < 100                |
| <b>BTEX</b>                                       |     |       |                      |
| Benzene                                           | 0.1 | mg/kg | < 0.1                |
| Toluene                                           | 0.1 | mg/kg | < 0.1                |
| Ethylbenzene                                      | 0.1 | mg/kg | < 0.1                |
| m&p-Xylenes                                       | 0.2 | mg/kg | < 0.2                |
| o-Xylene                                          | 0.1 | mg/kg | < 0.1                |
| Xylenes - Total*                                  | 0.3 | mg/kg | < 0.3                |
| 4-Bromofluorobenzene (surr.)                      | 1   | %     | 72                   |

|                             |     |       |                      |
|-----------------------------|-----|-------|----------------------|
| <b>Client Sample ID</b>     |     |       | <b>MW03_7_7.1</b>    |
| <b>Sample Matrix</b>        |     |       | <b>Soil</b>          |
| <b>Eurofins Sample No.</b>  |     |       | <b>S23-Jn0005958</b> |
| <b>Date Sampled</b>         |     |       | <b>May 29, 2023</b>  |
| Test/Reference              | LOR | Unit  |                      |
| <b>Volatile Organics</b>    |     |       |                      |
| 1.1-Dichloroethane          | 0.5 | mg/kg | < 0.5                |
| 1.1-Dichloroethene          | 0.5 | mg/kg | < 0.5                |
| 1.1.1-Trichloroethane       | 0.5 | mg/kg | < 0.5                |
| 1.1.1.2-Tetrachloroethane   | 0.5 | mg/kg | < 0.5                |
| 1.1.2-Trichloroethane       | 0.5 | mg/kg | < 0.5                |
| 1.1.2.2-Tetrachloroethane   | 0.5 | mg/kg | < 0.5                |
| 1.2-Dibromoethane           | 0.5 | mg/kg | < 0.5                |
| 1.2-Dichlorobenzene         | 0.5 | mg/kg | < 0.5                |
| 1.2-Dichloroethane          | 0.5 | mg/kg | < 0.5                |
| 1.2-Dichloropropane         | 0.5 | mg/kg | < 0.5                |
| 1.2.3-Trichloropropane      | 0.5 | mg/kg | < 0.5                |
| 1.2.4-Trimethylbenzene      | 0.5 | mg/kg | < 0.5                |
| 1.3-Dichlorobenzene         | 0.5 | mg/kg | < 0.5                |
| 1.3-Dichloropropane         | 0.5 | mg/kg | < 0.5                |
| 1.3.5-Trimethylbenzene      | 0.5 | mg/kg | < 0.5                |
| 1.4-Dichlorobenzene         | 0.5 | mg/kg | < 0.5                |
| 2-Butanone (MEK)            | 0.5 | mg/kg | < 0.5                |
| 2-Propanone (Acetone)       | 0.5 | mg/kg | < 0.5                |
| 4-Chlorotoluene             | 0.5 | mg/kg | < 0.5                |
| 4-Methyl-2-pentanone (MIBK) | 0.5 | mg/kg | < 0.5                |
| Allyl chloride              | 0.5 | mg/kg | < 0.5                |
| Benzene                     | 0.1 | mg/kg | < 0.1                |
| Bromobenzene                | 0.5 | mg/kg | < 0.5                |
| Bromochloromethane          | 0.5 | mg/kg | < 0.5                |
| Bromodichloromethane        | 0.5 | mg/kg | < 0.5                |
| Bromoform                   | 0.5 | mg/kg | < 0.5                |
| Bromomethane                | 0.5 | mg/kg | < 0.5                |
| Carbon disulfide            | 0.5 | mg/kg | < 0.5                |
| Carbon Tetrachloride        | 0.5 | mg/kg | < 0.5                |
| Chlorobenzene               | 0.5 | mg/kg | < 0.5                |
| Chloroethane                | 0.5 | mg/kg | < 0.5                |
| Chloroform                  | 0.5 | mg/kg | < 0.5                |
| Chloromethane               | 0.5 | mg/kg | < 0.5                |
| cis-1.2-Dichloroethene      | 0.5 | mg/kg | < 0.5                |
| cis-1.3-Dichloropropene     | 0.5 | mg/kg | < 0.5                |
| Dibromochloromethane        | 0.5 | mg/kg | < 0.5                |
| Dibromomethane              | 0.5 | mg/kg | < 0.5                |
| Dichlorodifluoromethane     | 0.5 | mg/kg | < 0.5                |
| Ethylbenzene                | 0.1 | mg/kg | < 0.1                |
| Iodomethane                 | 0.5 | mg/kg | < 0.5                |
| Isopropyl benzene (Cumene)  | 0.5 | mg/kg | < 0.5                |
| m&p-Xylenes                 | 0.2 | mg/kg | < 0.2                |
| Methylene Chloride          | 0.5 | mg/kg | < 0.5                |
| o-Xylene                    | 0.1 | mg/kg | < 0.1                |
| Styrene                     | 0.5 | mg/kg | < 0.5                |
| Tetrachloroethene           | 0.5 | mg/kg | < 0.5                |
| Toluene                     | 0.1 | mg/kg | < 0.1                |
| trans-1.2-Dichloroethene    | 0.5 | mg/kg | < 0.5                |
| trans-1.3-Dichloropropene   | 0.5 | mg/kg | < 0.5                |

|                                                             |     |       |                      |
|-------------------------------------------------------------|-----|-------|----------------------|
| <b>Client Sample ID</b>                                     |     |       | <b>MW03_7_7.1</b>    |
| <b>Sample Matrix</b>                                        |     |       | <b>Soil</b>          |
| <b>Eurofins Sample No.</b>                                  |     |       | <b>S23-Jn0005958</b> |
| <b>Date Sampled</b>                                         |     |       | <b>May 29, 2023</b>  |
| Test/Reference                                              | LOR | Unit  |                      |
| <b>Volatile Organics</b>                                    |     |       |                      |
| Trichloroethene                                             | 0.5 | mg/kg | < 0.5                |
| Trichlorofluoromethane                                      | 0.5 | mg/kg | < 0.5                |
| Vinyl chloride                                              | 0.5 | mg/kg | < 0.5                |
| Xylenes - Total*                                            | 0.3 | mg/kg | < 0.3                |
| Total MAH*                                                  | 0.5 | mg/kg | < 0.5                |
| Vic EPA IWRG 621 CHC (Total)*                               | 0.5 | mg/kg | < 0.5                |
| Vic EPA IWRG 621 Other CHC (Total)*                         | 0.5 | mg/kg | < 0.5                |
| 4-Bromofluorobenzene (surr.)                                | 1   | %     | 72                   |
| Toluene-d8 (surr.)                                          | 1   | %     | 57                   |
| <b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b> |     |       |                      |
| Naphthalene <sup>NO2</sup>                                  | 0.5 | mg/kg | < 0.5                |
| <b>Sample Properties</b>                                    |     |       |                      |
| % Moisture                                                  | 1   | %     | 14                   |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description                                                            | Testing Site | Extracted    | Holding Time |
|------------------------------------------------------------------------|--------------|--------------|--------------|
| <b>Eurofins Suite B1</b>                                               |              |              |              |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions                   | Sydney       | Jun 07, 2023 | 14 Days      |
| - Method: LTM-ORG-2010 TRH C6-C40                                      |              |              |              |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions                   | Sydney       | Jun 07, 2023 | 14 Days      |
| - Method: LTM-ORG-2010 TRH C6-C40                                      |              |              |              |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions                   | Sydney       | Jun 07, 2023 | 14 Days      |
| - Method: LTM-ORG-2010 TRH C6-C40                                      |              |              |              |
| BTEX                                                                   | Sydney       | Jun 07, 2023 | 14 Days      |
| - Method: LTM-ORG-2010 BTEX and Volatile TRH                           |              |              |              |
| Volatile Organics                                                      | Sydney       | Jun 07, 2023 | 7 Days       |
| - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices |              |              |              |
| Polycyclic Aromatic Hydrocarbons                                       | Sydney       | Jun 07, 2023 | 14 Days      |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water               |              |              |              |
| Organochlorine Pesticides                                              | Sydney       | Jun 07, 2023 | 14 Days      |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water                     |              |              |              |
| Polychlorinated Biphenyls                                              | Sydney       | Jun 07, 2023 | 28 Days      |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water                     |              |              |              |
| Metals M8                                                              | Sydney       | Jun 07, 2023 | 28 Days      |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS   |              |              |              |
| % Moisture                                                             | Sydney       | Jun 02, 2023 | 14 Days      |
| - Method: LTM-GEN-7080 Moisture                                        |              |              |              |
| <b>Per- and Polyfluoroalkyl Substances (PFASs)</b>                     |              |              |              |
| Perfluoroalkyl carboxylic acids (PFCAs)                                | Sydney       | Jun 07, 2023 | 28 Days      |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| Perfluoroalkyl sulfonamido substances                                  | Sydney       | Jun 07, 2023 | 28 Days      |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| Perfluoroalkyl sulfonic acids (PFSAAs)                                 | Sydney       | Jun 07, 2023 | 28 Days      |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)                           | Sydney       | Jun 07, 2023 | 28 Days      |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| PFASs Summations                                                       | Sydney       | Jun 02, 2023 |              |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |



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**Project ID:** 65196

**Order No.:**  
**Report #:** 995556  
**Phone:** 02 8245 0300  
**Fax:**

**Received:** May 31, 2023 5:07 PM  
**Due:** Jun 7, 2023  
**Priority:** 5 Day  
**Contact Name:** Alison Smith

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail                                  |              |              |               |        |               | Asbestos - WA guidelines | HOLD | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|------------------------------------------------|--------------|--------------|---------------|--------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |               |        |               |                          |      |                                  |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |               |        |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| External Laboratory                            |              |              |               |        |               |                          |      |                                  |                           |                           |           |                   |              |                   |                                             |
| No                                             | Sample ID    | Sample Date  | Sampling Time | Matrix | LAB ID        |                          |      |                                  |                           |                           |           |                   |              |                   |                                             |
| 1                                              | BH01_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005944 | X                        |      | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 2                                              | QC01         | May 29, 2023 |               | Soil   | S23-Jn0005945 | X                        |      | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 3                                              | BH02_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005946 | X                        |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 4                                              | BH03_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005947 | X                        |      | X                                | X                         | X                         | X         | X                 | X            | X                 |                                             |
| 5                                              | BH04_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005948 | X                        |      |                                  |                           |                           |           |                   |              |                   |                                             |
| 6                                              | BH04_1_1.1   | May 29, 2023 |               | Soil   | S23-Jn0005949 |                          |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 7                                              | BH05_0.3_0.4 | May 30, 2023 |               | Soil   | S23-Jn0005950 | X                        |      |                                  |                           |                           |           |                   | X            |                   | X                                           |
| 8                                              | BH05_0.5_0.6 | May 30, 2023 |               | Soil   | S23-Jn0005951 |                          |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 9                                              | BH06_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005952 | X                        |      | X                                | X                         | X                         | X         | X                 | X            | X                 |                                             |
| 10                                             | BH07_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005953 | X                        |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 11                                             | MW01_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005954 | X                        |      | X                                | X                         | X                         | X         |                   | X            |                   | X                                           |

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|------------------------------------------------|--------------|--------------|--|-------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |  |       |               |                          |      |                                  |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |  |       |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 12                                             | MW02_0.3_0.4 | May 29, 2023 |  | Soil  | S23-Jn0005955 | X                        |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 13                                             | MW03_0.2_0.3 | May 29, 2023 |  | Soil  | S23-Jn0005956 | X                        |      |                                  |                           |                           |           |                   |              |                   |                                             |
| 14                                             | MW03_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005957 |                          |      | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 15                                             | MW03_7_7.1   | May 29, 2023 |  | Soil  | S23-Jn0005958 |                          |      |                                  |                           |                           |           | X                 | X            | X                 |                                             |
| 16                                             | BLANK        | May 29, 2023 |  | Water | S23-Jn0005959 |                          |      |                                  |                           |                           |           |                   |              |                   | X                                           |
| 17                                             | RINSATE      | May 29, 2023 |  | Water | S23-Jn0005960 |                          |      | X                                | X                         | X                         | X         | X                 |              | X                 | X                                           |
| 18                                             | BH01_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005961 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 19                                             | BH01_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005962 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 20                                             | BH02_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005963 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 21                                             | BH02_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005964 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 22                                             | BH03_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005965 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 23                                             | BH03_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005966 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 24                                             | BH04_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005967 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |

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Eurofins Analytical Services Manager : Andrew Black

| Sample Detail                                  |              |              |  |      |               | Asbestos - WA guidelines | HOLD | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|------------------------------------------------|--------------|--------------|--|------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |  |      |               |                          |      |                                  |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |  |      |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 25                                             | BH05_1_1.1   | May 30, 2023 |  | Soil | S23-Jn0005968 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 26                                             | BH05_1.5_1.6 | May 30, 2023 |  | Soil | S23-Jn0005969 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 27                                             | QC02         | May 30, 2023 |  | Soil | S23-Jn0005970 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 28                                             | BH06_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005971 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 29                                             | BH06_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005972 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 30                                             | BH07_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005973 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 31                                             | BH07_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005974 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 32                                             | MW01_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005975 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 33                                             | MW01_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005976 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 34                                             | MW01_1.5_1.6 | May 29, 2023 |  | Soil | S23-Jn0005977 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 35                                             | MW01_2_2.1   | May 29, 2023 |  | Soil | S23-Jn0005978 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 36                                             | MW01_3_3.1   | May 29, 2023 |  | Soil | S23-Jn0005979 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 37                                             | MW01_4_4.1   | May 29, 2023 |  | Soil | S23-Jn0005980 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |

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|------------------------------------------------|--------------|--------------|--|------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |  |      |               |                          |      |                                  |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |  |      |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 38                                             | MW01_5_5.1   | May 29, 2023 |  | Soil | S23-Jn0005981 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 39                                             | MW01_6_6.1   | May 29, 2023 |  | Soil | S23-Jn0005982 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 40                                             | MW01_7_7.1   | May 29, 2023 |  | Soil | S23-Jn0005983 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 41                                             | MW02_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005984 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 42                                             | MW02_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005985 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 43                                             | MW02_1.5_1.6 | May 29, 2023 |  | Soil | S23-Jn0005986 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 44                                             | MW02_2_2.1   | May 29, 2023 |  | Soil | S23-Jn0005987 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 45                                             | MW02_3_3.1   | May 29, 2023 |  | Soil | S23-Jn0005988 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 46                                             | MW02_4_4.1   | May 29, 2023 |  | Soil | S23-Jn0005989 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 47                                             | MW02_5_5.1   | May 29, 2023 |  | Soil | S23-Jn0005990 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 48                                             | MW02_6_6.1   | May 29, 2023 |  | Soil | S23-Jn0005991 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 49                                             | MW02_7_7.1   | May 29, 2023 |  | Soil | S23-Jn0005992 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 50                                             | MW03_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005993 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |



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| Sample Detail                                  |              |              |  |      |               | Asbestos - WA guidelines | HOLD | Polyyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|------------------------------------------------|--------------|--------------|--|------|---------------|--------------------------|------|---------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |  |      |               |                          |      |                                 |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |  |      |               | X                        | X    | X                               | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 51                                             | MW03_1.5_1.6 | May 29, 2023 |  | Soil | S23-Jn0005994 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 52                                             | MW03_4_4.1   | May 29, 2023 |  | Soil | S23-Jn0005995 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 53                                             | MW03_5_5.1   | May 29, 2023 |  | Soil | S23-Jn0005996 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 54                                             | MW03_6_6.1   | May 29, 2023 |  | Soil | S23-Jn0005997 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 55                                             | MW03_8_8.1   | May 29, 2023 |  | Soil | S23-Jn0005998 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 56                                             | MW03_9_9.1   | May 29, 2023 |  | Soil | S23-Jn0005999 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 57                                             | MW03_10_10.1 | May 29, 2023 |  | Soil | S23-Jn0006000 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| Test Counts                                    |              |              |  |      |               | 11                       | 40   | 12                              | 7                         | 7                         | 12        | 12                | 13           | 12                | 7                                           |

## Internal Quality Control Review and Glossary

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

### Units

|                                                  |                                           |                                                                          |
|--------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------|
| <b>mg/kg:</b> milligrams per kilogram            | <b>mg/L:</b> milligrams per litre         | <b>µg/L:</b> micrograms per litre                                        |
| <b>ppm:</b> parts per million                    | <b>ppb:</b> parts per billion             | <b>%:</b> Percentage                                                     |
| <b>org/100 mL:</b> Organisms per 100 millilitres | <b>NTU:</b> Nephelometric Turbidity Units | <b>MPN/100 mL:</b> Most Probable Number of organisms per 100 millilitres |
| <b>CFU:</b> Colony forming unit                  |                                           |                                                                          |

### Terms

|                         |                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APHA</b>             | American Public Health Association                                                                                                                                                                                                                                                            |
| <b>COC</b>              | Chain of Custody                                                                                                                                                                                                                                                                              |
| <b>CP</b>               | Client Parent - QC was performed on samples pertaining to this report                                                                                                                                                                                                                         |
| <b>CRM</b>              | Certified Reference Material (ISO17034) - reported as percent recovery.                                                                                                                                                                                                                       |
| <b>Dry</b>              | Where a moisture has been determined on a solid sample the result is expressed on a dry basis.                                                                                                                                                                                                |
| <b>Duplicate</b>        | A second piece of analysis from the same sample and reported in the same units as the result to show comparison.                                                                                                                                                                              |
| <b>LOR</b>              | Limit of Reporting.                                                                                                                                                                                                                                                                           |
| <b>LCS</b>              | Laboratory Control Sample - reported as percent recovery.                                                                                                                                                                                                                                     |
| <b>Method Blank</b>     | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.                                                                                                                                |
| <b>NCP</b>              | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.                                                                                                                            |
| <b>RPD</b>              | Relative Percent Difference between two Duplicate pieces of analysis.                                                                                                                                                                                                                         |
| <b>SPIKE</b>            | Addition of the analyte to the sample and reported as percentage recovery.                                                                                                                                                                                                                    |
| <b>SRA</b>              | Sample Receipt Advice                                                                                                                                                                                                                                                                         |
| <b>Surr - Surrogate</b> | The addition of a like compound to the analyte target and reported as percentage recovery.                                                                                                                                                                                                    |
| <b>TBTO</b>             | Tributyltin oxide ( <i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| <b>TCLP</b>             | Toxicity Characteristic Leaching Procedure                                                                                                                                                                                                                                                    |
| <b>TEQ</b>              | Toxic Equivalency Quotient or Total Equivalence                                                                                                                                                                                                                                               |
| <b>QSM</b>              | US Department of Defense Quality Systems Manual Version 5.4                                                                                                                                                                                                                                   |
| <b>US EPA</b>           | United States Environmental Protection Agency                                                                                                                                                                                                                                                 |
| <b>WA DWER</b>          | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA                                                                                                                                                                                                                 |

### QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

### QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

## Quality Control Results

| Test                                  | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|---------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| <b>Method Blank</b>                   |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b> |       |          |  |  |                   |             |                 |
| TRH C6-C9                             | mg/kg | < 20     |  |  | 20                | Pass        |                 |
| TRH C10-C14                           | mg/kg | < 20     |  |  | 20                | Pass        |                 |
| TRH C15-C28                           | mg/kg | < 50     |  |  | 50                | Pass        |                 |
| TRH C29-C36                           | mg/kg | < 50     |  |  | 50                | Pass        |                 |
| TRH C6-C10                            | mg/kg | < 20     |  |  | 20                | Pass        |                 |
| TRH >C10-C16                          | mg/kg | < 50     |  |  | 50                | Pass        |                 |
| TRH >C16-C34                          | mg/kg | < 100    |  |  | 100               | Pass        |                 |
| TRH >C34-C40                          | mg/kg | < 100    |  |  | 100               | Pass        |                 |
| <b>Method Blank</b>                   |       |          |  |  |                   |             |                 |
| <b>BTEX</b>                           |       |          |  |  |                   |             |                 |
| Benzene                               | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| Toluene                               | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| Ethylbenzene                          | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| m&p-Xylenes                           | mg/kg | < 0.2    |  |  | 0.2               | Pass        |                 |
| o-Xylene                              | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| Xylenes - Total*                      | mg/kg | < 0.3    |  |  | 0.3               | Pass        |                 |
| <b>Method Blank</b>                   |       |          |  |  |                   |             |                 |
| <b>Volatile Organics</b>              |       |          |  |  |                   |             |                 |
| 1.1-Dichloroethane                    | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.1-Dichloroethene                    | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.1.1-Trichloroethane                 | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.1.1.2-Tetrachloroethane             | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.1.2-Trichloroethane                 | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.1.2.2-Tetrachloroethane             | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2-Dibromoethane                     | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2-Dichlorobenzene                   | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2-Dichloroethane                    | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2-Dichloropropane                   | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2.3-Trichloropropane                | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2.4-Trimethylbenzene                | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.3-Dichlorobenzene                   | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.3-Dichloropropane                   | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.3.5-Trimethylbenzene                | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.4-Dichlorobenzene                   | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 2-Butanone (MEK)                      | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 2-Propanone (Acetone)                 | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 4-Chlorotoluene                       | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| 4-Methyl-2-pentanone (MIBK)           | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Allyl chloride                        | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Bromobenzene                          | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Bromochloromethane                    | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Bromodichloromethane                  | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Bromoform                             | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Bromomethane                          | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Carbon disulfide                      | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Carbon Tetrachloride                  | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Chlorobenzene                         | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Chloroethane                          | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Chloroform                            | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Chloromethane                         | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |

| Test                                                        | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|-------------------------------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| cis-1.2-Dichloroethene                                      | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| cis-1.3-Dichloropropene                                     | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Dibromochloromethane                                        | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Dibromomethane                                              | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Dichlorodifluoromethane                                     | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Iodomethane                                                 | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Isopropyl benzene (Cumene)                                  | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Methylene Chloride                                          | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Styrene                                                     | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Tetrachloroethene                                           | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| trans-1.2-Dichloroethene                                    | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| trans-1.3-Dichloropropene                                   | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Trichloroethene                                             | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Trichlorofluoromethane                                      | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Vinyl chloride                                              | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| <b>Method Blank</b>                                         |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b> |       |          |  |  |                   |             |                 |
| Naphthalene                                                 | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| <b>Method Blank</b>                                         |       |          |  |  |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b>                     |       |          |  |  |                   |             |                 |
| Acenaphthene                                                | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Acenaphthylene                                              | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Anthracene                                                  | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Benz(a)anthracene                                           | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Benzo(a)pyrene                                              | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Benzo(b&j)fluoranthene                                      | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Benzo(g,h,i)perylene                                        | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Benzo(k)fluoranthene                                        | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Chrysene                                                    | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Dibenz(a,h)anthracene                                       | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Fluoranthene                                                | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Fluorene                                                    | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Indeno(1.2.3-cd)pyrene                                      | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Naphthalene                                                 | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Phenanthrene                                                | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| Pyrene                                                      | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| <b>Method Blank</b>                                         |       |          |  |  |                   |             |                 |
| <b>Organochlorine Pesticides</b>                            |       |          |  |  |                   |             |                 |
| Chlordanes - Total                                          | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| 4.4'-DDD                                                    | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| 4.4'-DDE                                                    | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| 4.4'-DDT                                                    | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| a-HCH                                                       | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| Aldrin                                                      | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| b-HCH                                                       | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| d-HCH                                                       | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| Dieldrin                                                    | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| Endosulfan I                                                | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| Endosulfan II                                               | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| Endosulfan sulphate                                         | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| Endrin                                                      | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| Endrin aldehyde                                             | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| Endrin ketone                                               | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| g-HCH (Lindane)                                             | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |



| Test                                                         | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Heptachlor                                                   | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| Heptachlor epoxide                                           | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| Hexachlorobenzene                                            | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| Methoxychlor                                                 | mg/kg | < 0.05   |  |  | 0.05              | Pass        |                 |
| Toxaphene                                                    | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>Polychlorinated Biphenyls</b>                             |       |          |  |  |                   |             |                 |
| Aroclor-1016                                                 | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| Aroclor-1221                                                 | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| Aroclor-1232                                                 | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| Aroclor-1242                                                 | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| Aroclor-1248                                                 | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| Aroclor-1254                                                 | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| Aroclor-1260                                                 | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| Total PCB*                                                   | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>Heavy Metals</b>                                          |       |          |  |  |                   |             |                 |
| Arsenic                                                      | mg/kg | < 2      |  |  | 2                 | Pass        |                 |
| Cadmium                                                      | mg/kg | < 0.4    |  |  | 0.4               | Pass        |                 |
| Chromium                                                     | mg/kg | < 5      |  |  | 5                 | Pass        |                 |
| Copper                                                       | mg/kg | < 5      |  |  | 5                 | Pass        |                 |
| Lead                                                         | mg/kg | < 5      |  |  | 5                 | Pass        |                 |
| Mercury                                                      | mg/kg | < 0.1    |  |  | 0.1               | Pass        |                 |
| Nickel                                                       | mg/kg | < 5      |  |  | 5                 | Pass        |                 |
| Zinc                                                         | mg/kg | < 5      |  |  | 5                 | Pass        |                 |
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>               |       |          |  |  |                   |             |                 |
| Perfluorobutanoic acid (PFBA)                                | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluoropentanoic acid (PFPeA)                              | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluorohexanoic acid (PFHxA)                               | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluoroheptanoic acid (PFHpA)                              | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluorooctanoic acid (PFOA)                                | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluorononanoic acid (PFNA)                                | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluorodecanoic acid (PFDA)                                | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluoroundecanoic acid (PFUnDA)                            | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluorododecanoic acid (PFDoDA)                            | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluorotridecanoic acid (PFTriDA)                          | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluorotetradecanoic acid (PFTeDA)                         | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonamido substances</b>                 |       |          |  |  |                   |             |                 |
| Perfluorooctane sulfonamide (FOSA)                           | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)            | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)             | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)  | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)    | ug/kg | < 10     |  |  | 10                | Pass        |                 |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)   | ug/kg | < 10     |  |  | 10                | Pass        |                 |
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonic acids (PFSAs)</b>                 |       |          |  |  |                   |             |                 |
| Perfluorobutanesulfonic acid (PFBS)                          | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluorononanesulfonic acid (PFNS)                          | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluoropropanesulfonic acid (PFPrS)                        | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluoropentanesulfonic acid (PFPeS)                        | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluorohexanesulfonic acid (PFHxS)                         | ug/kg | < 5      |  |  | 5                 | Pass        |                 |

| Test                                                        | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|-------------------------------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Perfluoroheptanesulfonic acid (PFHpS)                       | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluorooctanesulfonic acid (PFOS)                         | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| Perfluorodecanesulfonic acid (PFDS)                         | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| <b>Method Blank</b>                                         |       |          |  |  |                   |             |                 |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA)</b>          |       |          |  |  |                   |             |                 |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)         | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)          | ug/kg | < 10     |  |  | 10                | Pass        |                 |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)         | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)      | ug/kg | < 5      |  |  | 5                 | Pass        |                 |
| <b>LCS - % Recovery</b>                                     |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b>                       |       |          |  |  |                   |             |                 |
| TRH C6-C9                                                   | %     | 99       |  |  | 70-130            | Pass        |                 |
| TRH C10-C14                                                 | %     | 98       |  |  | 70-130            | Pass        |                 |
| TRH C6-C10                                                  | %     | 98       |  |  | 70-130            | Pass        |                 |
| TRH >C10-C16                                                | %     | 98       |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                     |       |          |  |  |                   |             |                 |
| <b>BTEX</b>                                                 |       |          |  |  |                   |             |                 |
| Benzene                                                     | %     | 119      |  |  | 70-130            | Pass        |                 |
| Toluene                                                     | %     | 116      |  |  | 70-130            | Pass        |                 |
| Ethylbenzene                                                | %     | 116      |  |  | 70-130            | Pass        |                 |
| m&p-Xylenes                                                 | %     | 115      |  |  | 70-130            | Pass        |                 |
| o-Xylene                                                    | %     | 113      |  |  | 70-130            | Pass        |                 |
| Xylenes - Total*                                            | %     | 114      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                     |       |          |  |  |                   |             |                 |
| <b>Volatile Organics</b>                                    |       |          |  |  |                   |             |                 |
| 1.1-Dichloroethene                                          | %     | 116      |  |  | 70-130            | Pass        |                 |
| 1.1.1-Trichloroethane                                       | %     | 94       |  |  | 70-130            | Pass        |                 |
| 1.2-Dichlorobenzene                                         | %     | 125      |  |  | 70-130            | Pass        |                 |
| 1.2-Dichloroethane                                          | %     | 117      |  |  | 70-130            | Pass        |                 |
| Trichloroethene                                             | %     | 86       |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                     |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b> |       |          |  |  |                   |             |                 |
| Naphthalene                                                 | %     | 110      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                     |       |          |  |  |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b>                     |       |          |  |  |                   |             |                 |
| Acenaphthene                                                | %     | 102      |  |  | 70-130            | Pass        |                 |
| Acenaphthylene                                              | %     | 95       |  |  | 70-130            | Pass        |                 |
| Anthracene                                                  | %     | 99       |  |  | 70-130            | Pass        |                 |
| Benz(a)anthracene                                           | %     | 85       |  |  | 70-130            | Pass        |                 |
| Benzo(a)pyrene                                              | %     | 87       |  |  | 70-130            | Pass        |                 |
| Benzo(b&j)fluoranthene                                      | %     | 82       |  |  | 70-130            | Pass        |                 |
| Benzo(g,h,i)perylene                                        | %     | 91       |  |  | 70-130            | Pass        |                 |
| Benzo(k)fluoranthene                                        | %     | 87       |  |  | 70-130            | Pass        |                 |
| Chrysene                                                    | %     | 95       |  |  | 70-130            | Pass        |                 |
| Dibenz(a,h)anthracene                                       | %     | 87       |  |  | 70-130            | Pass        |                 |
| Fluoranthene                                                | %     | 98       |  |  | 70-130            | Pass        |                 |
| Fluorene                                                    | %     | 96       |  |  | 70-130            | Pass        |                 |
| Indeno(1.2.3-cd)pyrene                                      | %     | 84       |  |  | 70-130            | Pass        |                 |
| Naphthalene                                                 | %     | 101      |  |  | 70-130            | Pass        |                 |
| Phenanthrene                                                | %     | 86       |  |  | 70-130            | Pass        |                 |
| Pyrene                                                      | %     | 103      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                     |       |          |  |  |                   |             |                 |
| <b>Organochlorine Pesticides</b>                            |       |          |  |  |                   |             |                 |
| Chlordanes - Total                                          | %     | 104      |  |  | 70-130            | Pass        |                 |

| Test                                                         | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| 4,4'-DDD                                                     | %     | 109      |  |  | 70-130            | Pass        |                 |
| 4,4'-DDE                                                     | %     | 79       |  |  | 70-130            | Pass        |                 |
| 4,4'-DDT                                                     | %     | 107      |  |  | 70-130            | Pass        |                 |
| a-HCH                                                        | %     | 91       |  |  | 70-130            | Pass        |                 |
| Aldrin                                                       | %     | 104      |  |  | 70-130            | Pass        |                 |
| b-HCH                                                        | %     | 79       |  |  | 70-130            | Pass        |                 |
| d-HCH                                                        | %     | 78       |  |  | 70-130            | Pass        |                 |
| Dieldrin                                                     | %     | 108      |  |  | 70-130            | Pass        |                 |
| Endosulfan I                                                 | %     | 99       |  |  | 70-130            | Pass        |                 |
| Endosulfan II                                                | %     | 99       |  |  | 70-130            | Pass        |                 |
| Endosulfan sulphate                                          | %     | 105      |  |  | 70-130            | Pass        |                 |
| Endrin                                                       | %     | 101      |  |  | 70-130            | Pass        |                 |
| Endrin aldehyde                                              | %     | 99       |  |  | 70-130            | Pass        |                 |
| Endrin ketone                                                | %     | 116      |  |  | 70-130            | Pass        |                 |
| g-HCH (Lindane)                                              | %     | 79       |  |  | 70-130            | Pass        |                 |
| Heptachlor                                                   | %     | 110      |  |  | 70-130            | Pass        |                 |
| Heptachlor epoxide                                           | %     | 100      |  |  | 70-130            | Pass        |                 |
| Hexachlorobenzene                                            | %     | 79       |  |  | 70-130            | Pass        |                 |
| Methoxychlor                                                 | %     | 104      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>Polychlorinated Biphenyls</b>                             |       |          |  |  |                   |             |                 |
| Aroclor-1016                                                 | %     | 73       |  |  | 70-130            | Pass        |                 |
| Aroclor-1260                                                 | %     | 94       |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>Heavy Metals</b>                                          |       |          |  |  |                   |             |                 |
| Arsenic                                                      | %     | 105      |  |  | 80-120            | Pass        |                 |
| Cadmium                                                      | %     | 112      |  |  | 80-120            | Pass        |                 |
| Chromium                                                     | %     | 112      |  |  | 80-120            | Pass        |                 |
| Copper                                                       | %     | 112      |  |  | 80-120            | Pass        |                 |
| Lead                                                         | %     | 115      |  |  | 80-120            | Pass        |                 |
| Mercury                                                      | %     | 106      |  |  | 80-120            | Pass        |                 |
| Nickel                                                       | %     | 113      |  |  | 80-120            | Pass        |                 |
| Zinc                                                         | %     | 108      |  |  | 80-120            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>               |       |          |  |  |                   |             |                 |
| Perfluorobutanoic acid (PFBA)                                | %     | 98       |  |  | 50-150            | Pass        |                 |
| Perfluoropentanoic acid (PFPeA)                              | %     | 98       |  |  | 50-150            | Pass        |                 |
| Perfluorohexanoic acid (PFHxA)                               | %     | 98       |  |  | 50-150            | Pass        |                 |
| Perfluoroheptanoic acid (PFHpA)                              | %     | 101      |  |  | 50-150            | Pass        |                 |
| Perfluorooctanoic acid (PFOA)                                | %     | 102      |  |  | 50-150            | Pass        |                 |
| Perfluorononanoic acid (PFNA)                                | %     | 98       |  |  | 50-150            | Pass        |                 |
| Perfluorodecanoic acid (PFDA)                                | %     | 105      |  |  | 50-150            | Pass        |                 |
| Perfluoroundecanoic acid (PFUnDA)                            | %     | 101      |  |  | 50-150            | Pass        |                 |
| Perfluorododecanoic acid (PFDoDA)                            | %     | 106      |  |  | 50-150            | Pass        |                 |
| Perfluorotridecanoic acid (PFTTrDA)                          | %     | 96       |  |  | 50-150            | Pass        |                 |
| Perfluorotetradecanoic acid (PFTeDA)                         | %     | 99       |  |  | 50-150            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonamido substances</b>                 |       |          |  |  |                   |             |                 |
| Perfluorooctane sulfonamide (FOSA)                           | %     | 93       |  |  | 50-150            | Pass        |                 |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)            | %     | 101      |  |  | 50-150            | Pass        |                 |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)             | %     | 99       |  |  | 50-150            | Pass        |                 |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) | %     | 92       |  |  | 50-150            | Pass        |                 |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)  | %     | 99       |  |  | 50-150            | Pass        |                 |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)    | %     | 101      |  |  | 50-150            | Pass        |                 |

| Test                                                       |               |           | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------------------------------|---------------|-----------|-------|----------|--|--|-------------------|-------------|-----------------|
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) |               |           | %     | 104      |  |  | 50-150            | Pass        |                 |
| <b>LCS - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonic acids (PFSA's)</b>              |               |           |       |          |  |  |                   |             |                 |
| Perfluorobutanesulfonic acid (PFBS)                        |               |           | %     | 95       |  |  | 50-150            | Pass        |                 |
| Perfluorononanesulfonic acid (PFNS)                        |               |           | %     | 102      |  |  | 50-150            | Pass        |                 |
| Perfluoropropanesulfonic acid (PFPrS)                      |               |           | %     | 95       |  |  | 50-150            | Pass        |                 |
| Perfluoropentanesulfonic acid (PFPeS)                      |               |           | %     | 90       |  |  | 50-150            | Pass        |                 |
| Perfluorohexanesulfonic acid (PFHxS)                       |               |           | %     | 97       |  |  | 50-150            | Pass        |                 |
| Perfluoroheptanesulfonic acid (PFHpS)                      |               |           | %     | 95       |  |  | 50-150            | Pass        |                 |
| Perfluorooctanesulfonic acid (PFOS)                        |               |           | %     | 100      |  |  | 50-150            | Pass        |                 |
| Perfluorodecanesulfonic acid (PFDS)                        |               |           | %     | 98       |  |  | 50-150            | Pass        |                 |
| <b>LCS - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)</b>       |               |           |       |          |  |  |                   |             |                 |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)        |               |           | %     | 96       |  |  | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)         |               |           | %     | 103      |  |  | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)        |               |           | %     | 99       |  |  | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)     |               |           | %     | 99       |  |  | 50-150            | Pass        |                 |
| Test                                                       | Lab Sample ID | QA Source | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
| <b>Spike - % Recovery</b>                                  |               |           |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b>                      |               |           |       | Result 1 |  |  |                   |             |                 |
| TRH C6-C9                                                  | N23-Jn0004920 | NCP       | %     | 80       |  |  | 70-130            | Pass        |                 |
| TRH C10-C14                                                | S23-My0055870 | NCP       | %     | 71       |  |  | 70-130            | Pass        |                 |
| TRH C6-C10                                                 | N23-Jn0004920 | NCP       | %     | 81       |  |  | 70-130            | Pass        |                 |
| TRH >C10-C16                                               | S23-My0055870 | NCP       | %     | 72       |  |  | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>                                  |               |           |       |          |  |  |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b>                    |               |           |       | Result 1 |  |  |                   |             |                 |
| Acenaphthene                                               | R23-My0057143 | NCP       | %     | 88       |  |  | 70-130            | Pass        |                 |
| Acenaphthylene                                             | R23-My0057143 | NCP       | %     | 82       |  |  | 70-130            | Pass        |                 |
| Anthracene                                                 | R23-My0057143 | NCP       | %     | 87       |  |  | 70-130            | Pass        |                 |
| Benz(a)anthracene                                          | R23-My0057143 | NCP       | %     | 78       |  |  | 70-130            | Pass        |                 |
| Benzo(a)pyrene                                             | R23-My0057143 | NCP       | %     | 77       |  |  | 70-130            | Pass        |                 |
| Benzo(b&j)fluoranthene                                     | R23-My0057143 | NCP       | %     | 77       |  |  | 70-130            | Pass        |                 |
| Benzo(g,h,i)perylene                                       | R23-My0057143 | NCP       | %     | 88       |  |  | 70-130            | Pass        |                 |
| Benzo(k)fluoranthene                                       | R23-My0057143 | NCP       | %     | 91       |  |  | 70-130            | Pass        |                 |
| Chrysene                                                   | R23-My0057143 | NCP       | %     | 88       |  |  | 70-130            | Pass        |                 |
| Dibenz(a,h)anthracene                                      | R23-My0057143 | NCP       | %     | 87       |  |  | 70-130            | Pass        |                 |
| Fluoranthene                                               | R23-My0057143 | NCP       | %     | 80       |  |  | 70-130            | Pass        |                 |
| Fluorene                                                   | R23-My0057143 | NCP       | %     | 83       |  |  | 70-130            | Pass        |                 |
| Indeno(1,2,3-cd)pyrene                                     | R23-My0057143 | NCP       | %     | 88       |  |  | 70-130            | Pass        |                 |
| Naphthalene                                                | R23-My0057143 | NCP       | %     | 88       |  |  | 70-130            | Pass        |                 |
| Phenanthrene                                               | R23-My0057143 | NCP       | %     | 74       |  |  | 70-130            | Pass        |                 |
| Pyrene                                                     | R23-My0057143 | NCP       | %     | 76       |  |  | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>                                  |               |           |       |          |  |  |                   |             |                 |
| <b>Organochlorine Pesticides</b>                           |               |           |       | Result 1 |  |  |                   |             |                 |
| Chlordanes - Total                                         | R23-My0057143 | NCP       | %     | 114      |  |  | 70-130            | Pass        |                 |
| 4,4'-DDD                                                   | R23-My0057143 | NCP       | %     | 113      |  |  | 70-130            | Pass        |                 |
| 4,4'-DDE                                                   | R23-My0057143 | NCP       | %     | 85       |  |  | 70-130            | Pass        |                 |
| 4,4'-DDT                                                   | R23-My0057143 | NCP       | %     | 105      |  |  | 70-130            | Pass        |                 |
| a-HCH                                                      | R23-My0057143 | NCP       | %     | 82       |  |  | 70-130            | Pass        |                 |
| Aldrin                                                     | R23-My0057143 | NCP       | %     | 96       |  |  | 70-130            | Pass        |                 |
| b-HCH                                                      | R23-My0057143 | NCP       | %     | 84       |  |  | 70-130            | Pass        |                 |
| d-HCH                                                      | R23-My0057143 | NCP       | %     | 97       |  |  | 70-130            | Pass        |                 |
| Dieldrin                                                   | R23-My0057143 | NCP       | %     | 110      |  |  | 70-130            | Pass        |                 |
| Endosulfan I                                               | R23-My0057143 | NCP       | %     | 99       |  |  | 70-130            | Pass        |                 |



| Test                                                         | Lab Sample ID | QA Source | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------------------------------------|---------------|-----------|-------|----------|--|--|-------------------|-------------|-----------------|
| Endosulfan II                                                | R23-My0057143 | NCP       | %     | 101      |  |  | 70-130            | Pass        |                 |
| Endosulfan sulphate                                          | R23-My0057143 | NCP       | %     | 115      |  |  | 70-130            | Pass        |                 |
| Endrin                                                       | R23-My0057143 | NCP       | %     | 124      |  |  | 70-130            | Pass        |                 |
| Endrin aldehyde                                              | R23-My0057143 | NCP       | %     | 93       |  |  | 70-130            | Pass        |                 |
| Endrin ketone                                                | R23-My0057143 | NCP       | %     | 126      |  |  | 70-130            | Pass        |                 |
| g-HCH (Lindane)                                              | R23-My0057143 | NCP       | %     | 86       |  |  | 70-130            | Pass        |                 |
| Heptachlor                                                   | R23-My0057143 | NCP       | %     | 110      |  |  | 70-130            | Pass        |                 |
| Heptachlor epoxide                                           | R23-My0057143 | NCP       | %     | 116      |  |  | 70-130            | Pass        |                 |
| Hexachlorobenzene                                            | R23-My0057143 | NCP       | %     | 82       |  |  | 70-130            | Pass        |                 |
| Methoxychlor                                                 | R23-My0057143 | NCP       | %     | 109      |  |  | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>Polychlorinated Biphenyls</b>                             |               |           |       | Result 1 |  |  |                   |             |                 |
| Aroclor-1016                                                 | R23-My0057143 | NCP       | %     | 73       |  |  | 70-130            | Pass        |                 |
| Aroclor-1260                                                 | R23-My0057143 | NCP       | %     | 102      |  |  | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>               |               |           |       | Result 1 |  |  |                   |             |                 |
| Perfluorobutanoic acid (PFBA)                                | N23-Jn0001213 | NCP       | %     | 95       |  |  | 50-150            | Pass        |                 |
| Perfluoropentanoic acid (PFPeA)                              | N23-Jn0001213 | NCP       | %     | 92       |  |  | 50-150            | Pass        |                 |
| Perfluorohexanoic acid (PFHxA)                               | N23-Jn0001213 | NCP       | %     | 97       |  |  | 50-150            | Pass        |                 |
| Perfluoroheptanoic acid (PFHpA)                              | N23-Jn0001213 | NCP       | %     | 98       |  |  | 50-150            | Pass        |                 |
| Perfluorooctanoic acid (PFOA)                                | N23-Jn0001213 | NCP       | %     | 96       |  |  | 50-150            | Pass        |                 |
| Perfluorononanoic acid (PFNA)                                | N23-Jn0001213 | NCP       | %     | 98       |  |  | 50-150            | Pass        |                 |
| Perfluorodecanoic acid (PFDA)                                | N23-Jn0001213 | NCP       | %     | 98       |  |  | 50-150            | Pass        |                 |
| Perfluoroundecanoic acid (PFUnDA)                            | N23-Jn0001213 | NCP       | %     | 104      |  |  | 50-150            | Pass        |                 |
| Perfluorododecanoic acid (PFDoDA)                            | N23-Jn0001213 | NCP       | %     | 99       |  |  | 50-150            | Pass        |                 |
| Perfluorotridecanoic acid (PFTeDA)                           | N23-Jn0001213 | NCP       | %     | 106      |  |  | 50-150            | Pass        |                 |
| Perfluorotetradecanoic acid (PFTeDA)                         | N23-Jn0001213 | NCP       | %     | 94       |  |  | 50-150            | Pass        |                 |
| <b>Spike - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonamido substances</b>                 |               |           |       | Result 1 |  |  |                   |             |                 |
| Perfluorooctane sulfonamide (FOSA)                           | N23-Jn0001213 | NCP       | %     | 91       |  |  | 50-150            | Pass        |                 |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)            | N23-Jn0001213 | NCP       | %     | 99       |  |  | 50-150            | Pass        |                 |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)             | N23-Jn0001213 | NCP       | %     | 102      |  |  | 50-150            | Pass        |                 |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) | N23-Jn0001213 | NCP       | %     | 93       |  |  | 50-150            | Pass        |                 |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)  | N23-Jn0001213 | NCP       | %     | 94       |  |  | 50-150            | Pass        |                 |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)    | N23-Jn0001213 | NCP       | %     | 97       |  |  | 50-150            | Pass        |                 |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)   | N23-Jn0001213 | NCP       | %     | 96       |  |  | 50-150            | Pass        |                 |
| <b>Spike - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonic acids (PFSA's)</b>                |               |           |       | Result 1 |  |  |                   |             |                 |
| Perfluorobutanesulfonic acid (PFBS)                          | N23-Jn0001213 | NCP       | %     | 95       |  |  | 50-150            | Pass        |                 |
| Perfluorononanesulfonic acid (PFNS)                          | N23-Jn0001213 | NCP       | %     | 95       |  |  | 50-150            | Pass        |                 |
| Perfluoropropanesulfonic acid (PFPrS)                        | N23-Jn0001213 | NCP       | %     | 94       |  |  | 50-150            | Pass        |                 |
| Perfluoropentanesulfonic acid (PFPeS)                        | N23-Jn0001213 | NCP       | %     | 87       |  |  | 50-150            | Pass        |                 |

| Test                                                        | Lab Sample ID | QA Source | Units | Result 1 |          |     | Acceptance Limits | Pass Limits | Qualifying Code |
|-------------------------------------------------------------|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| Perfluorohexanesulfonic acid (PFHxS)                        | N23-Jn0001213 | NCP       | %     | 96       |          |     | 50-150            | Pass        |                 |
| Perfluoroheptanesulfonic acid (PFHpS)                       | N23-Jn0001213 | NCP       | %     | 90       |          |     | 50-150            | Pass        |                 |
| Perfluorooctanesulfonic acid (PFOS)                         | N23-Jn0001213 | NCP       | %     | 91       |          |     | 50-150            | Pass        |                 |
| Perfluorodecanesulfonic acid (PFDS)                         | N23-Jn0001213 | NCP       | %     | 91       |          |     | 50-150            | Pass        |                 |
| <b>Spike - % Recovery</b>                                   |               |           |       |          |          |     |                   |             |                 |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA)</b>          |               |           |       | Result 1 |          |     |                   |             |                 |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)         | N23-Jn0001213 | NCP       | %     | 84       |          |     | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)         | N23-Jn0001213 | NCP       | %     | 102      |          |     | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)         | N23-Jn0001213 | NCP       | %     | 91       |          |     | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)      | N23-Jn0001213 | NCP       | %     | 98       |          |     | 50-150            | Pass        |                 |
| <b>Spike - % Recovery</b>                                   |               |           |       |          |          |     |                   |             |                 |
| <b>BTEX</b>                                                 |               |           |       | Result 1 |          |     |                   |             |                 |
| Benzene                                                     | S23-Jn0005945 | CP        | %     | 80       |          |     | 70-130            | Pass        |                 |
| Toluene                                                     | S23-Jn0005945 | CP        | %     | 83       |          |     | 70-130            | Pass        |                 |
| Ethylbenzene                                                | S23-Jn0005945 | CP        | %     | 80       |          |     | 70-130            | Pass        |                 |
| m&p-Xylenes                                                 | S23-Jn0005945 | CP        | %     | 82       |          |     | 70-130            | Pass        |                 |
| o-Xylene                                                    | S23-Jn0005945 | CP        | %     | 79       |          |     | 70-130            | Pass        |                 |
| Xylenes - Total*                                            | S23-Jn0005945 | CP        | %     | 81       |          |     | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>                                   |               |           |       |          |          |     |                   |             |                 |
| <b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b> |               |           |       | Result 1 |          |     |                   |             |                 |
| Naphthalene                                                 | S23-Jn0005945 | CP        | %     | 70       |          |     | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>                                   |               |           |       |          |          |     |                   |             |                 |
| <b>Heavy Metals</b>                                         |               |           |       | Result 1 |          |     |                   |             |                 |
| Arsenic                                                     | S23-Jn0005953 | CP        | %     | 86       |          |     | 75-125            | Pass        |                 |
| Cadmium                                                     | S23-Jn0005953 | CP        | %     | 97       |          |     | 75-125            | Pass        |                 |
| Chromium                                                    | S23-Jn0005953 | CP        | %     | 87       |          |     | 75-125            | Pass        |                 |
| Copper                                                      | S23-Jn0005953 | CP        | %     | 91       |          |     | 75-125            | Pass        |                 |
| Lead                                                        | S23-Jn0005953 | CP        | %     | 107      |          |     | 75-125            | Pass        |                 |
| Mercury                                                     | S23-Jn0005953 | CP        | %     | 97       |          |     | 75-125            | Pass        |                 |
| Nickel                                                      | S23-Jn0005953 | CP        | %     | 91       |          |     | 75-125            | Pass        |                 |
| Zinc                                                        | S23-Jn0005953 | CP        | %     | 114      |          |     | 75-125            | Pass        |                 |
| Test                                                        | Lab Sample ID | QA Source | Units | Result 1 |          |     | Acceptance Limits | Pass Limits | Qualifying Code |
| <b>Duplicate</b>                                            |               |           |       |          |          |     |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b>                       |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| TRH C6-C9                                                   | S23-Jn0005944 | CP        | mg/kg | < 20     | < 20     | <1  | 30%               | Pass        |                 |
| TRH C10-C14                                                 | S23-My0055839 | NCP       | mg/kg | < 20     | < 20     | <1  | 30%               | Pass        |                 |
| TRH C15-C28                                                 | S23-My0055839 | NCP       | mg/kg | 70       | 68       | 2.1 | 30%               | Pass        |                 |
| TRH C29-C36                                                 | S23-My0055839 | NCP       | mg/kg | < 50     | 51       | 5.1 | 30%               | Pass        |                 |
| TRH C6-C10                                                  | S23-Jn0005944 | CP        | mg/kg | < 20     | < 20     | <1  | 30%               | Pass        |                 |
| TRH >C10-C16                                                | S23-My0055839 | NCP       | mg/kg | < 50     | < 50     | <1  | 30%               | Pass        |                 |
| TRH >C16-C34                                                | S23-My0055839 | NCP       | mg/kg | 110      | 110      | <1  | 30%               | Pass        |                 |
| TRH >C34-C40                                                | S23-My0055839 | NCP       | mg/kg | < 100    | < 100    | <1  | 30%               | Pass        |                 |

| Duplicate                   |               |    |       |          |          |     |     |      |
|-----------------------------|---------------|----|-------|----------|----------|-----|-----|------|
| BTX                         |               |    |       | Result 1 | Result 2 | RPD |     |      |
| Benzene                     | S23-Jn0005944 | CP | mg/kg | < 0.1    | < 0.1    | <1  | 30% | Pass |
| Toluene                     | S23-Jn0005944 | CP | mg/kg | < 0.1    | < 0.1    | <1  | 30% | Pass |
| Ethylbenzene                | S23-Jn0005944 | CP | mg/kg | < 0.1    | < 0.1    | <1  | 30% | Pass |
| m&p-Xylenes                 | S23-Jn0005944 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| o-Xylene                    | S23-Jn0005944 | CP | mg/kg | < 0.1    | < 0.1    | <1  | 30% | Pass |
| Xylenes - Total*            | S23-Jn0005944 | CP | mg/kg | < 0.3    | < 0.3    | <1  | 30% | Pass |
| Duplicate                   |               |    |       |          |          |     |     |      |
| Volatile Organics           |               |    |       | Result 1 | Result 2 | RPD |     |      |
| 1.1-Dichloroethane          | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.1-Dichloroethene          | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.1.1-Trichloroethane       | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.1.1.2-Tetrachloroethane   | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.1.2-Trichloroethane       | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.1.2.2-Tetrachloroethane   | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.2-Dibromoethane           | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.2-Dichlorobenzene         | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.2-Dichloroethane          | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.2-Dichloropropane         | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.2.3-Trichloropropane      | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.2.4-Trimethylbenzene      | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.3-Dichlorobenzene         | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.3-Dichloropropane         | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.3.5-Trimethylbenzene      | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 1.4-Dichlorobenzene         | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 2-Butanone (MEK)            | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 2-Propanone (Acetone)       | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 4-Chlorotoluene             | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 4-Methyl-2-pentanone (MIBK) | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Allyl chloride              | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Bromobenzene                | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Bromochloromethane          | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Bromodichloromethane        | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Bromoform                   | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Bromomethane                | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Carbon disulfide            | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Carbon Tetrachloride        | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Chlorobenzene               | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Chloroethane                | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Chloroform                  | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Chloromethane               | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| cis-1.2-Dichloroethene      | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| cis-1.3-Dichloropropene     | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Dibromochloromethane        | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Dibromomethane              | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Dichlorodifluoromethane     | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Iodomethane                 | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Isopropyl benzene (Cumene)  | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Methylene Chloride          | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Styrene                     | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Tetrachloroethene           | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| trans-1.2-Dichloroethene    | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| trans-1.3-Dichloropropene   | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Trichloroethene             | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Trichlorofluoromethane      | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Vinyl chloride              | S23-Jn0005944 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |

| Duplicate                                            |               |     |       |          |          |     |     |      |
|------------------------------------------------------|---------------|-----|-------|----------|----------|-----|-----|------|
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions |               |     |       | Result 1 | Result 2 | RPD |     |      |
| Naphthalene                                          | S23-Jn0005944 | CP  | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Duplicate                                            |               |     |       |          |          |     |     |      |
| Polycyclic Aromatic Hydrocarbons                     |               |     |       | Result 1 | Result 2 | RPD |     |      |
| Acenaphthene                                         | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Acenaphthylene                                       | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Anthracene                                           | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Benz(a)anthracene                                    | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Benzo(a)pyrene                                       | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Benzo(b&j)fluoranthene                               | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Benzo(g,h,i)perylene                                 | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Benzo(k)fluoranthene                                 | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Chrysene                                             | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Dibenz(a,h)anthracene                                | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Fluoranthene                                         | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Fluorene                                             | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Indeno(1,2,3-cd)pyrene                               | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Naphthalene                                          | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Phenanthrene                                         | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Pyrene                                               | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Duplicate                                            |               |     |       |          |          |     |     |      |
| Organochlorine Pesticides                            |               |     |       | Result 1 | Result 2 | RPD |     |      |
| Chlordanes - Total                                   | S23-My0079512 | NCP | mg/kg | < 1      | < 1      | <1  | 30% | Pass |
| 4,4'-DDD                                             | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 4,4'-DDE                                             | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| 4,4'-DDT                                             | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| α-HCH                                                | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Aldrin                                               | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| β-HCH                                                | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| δ-HCH                                                | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Dieldrin                                             | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Endosulfan I                                         | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Endosulfan II                                        | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Endosulfan sulphate                                  | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Endrin                                               | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Endrin aldehyde                                      | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Endrin ketone                                        | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| γ-HCH (Lindane)                                      | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Heptachlor                                           | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Heptachlor epoxide                                   | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Hexachlorobenzene                                    | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Methoxychlor                                         | S23-My0079512 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Toxaphene                                            | R23-My0057123 | NCP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Duplicate                                            |               |     |       |          |          |     |     |      |
| Polychlorinated Biphenyls                            |               |     |       | Result 1 | Result 2 | RPD |     |      |
| Aroclor-1016                                         | S23-My0079512 | NCP | mg/kg | < 1      | < 1      | <1  | 30% | Pass |
| Aroclor-1221                                         | S23-My0079512 | NCP | mg/kg | < 1      | < 1      | <1  | 30% | Pass |
| Aroclor-1232                                         | S23-My0079512 | NCP | mg/kg | < 1      | < 1      | <1  | 30% | Pass |
| Aroclor-1242                                         | S23-My0079512 | NCP | mg/kg | < 1      | < 1      | <1  | 30% | Pass |
| Aroclor-1248                                         | S23-My0079512 | NCP | mg/kg | < 1      | < 1      | <1  | 30% | Pass |
| Aroclor-1254                                         | S23-My0079512 | NCP | mg/kg | < 1      | < 1      | <1  | 30% | Pass |
| Aroclor-1260                                         | S23-My0079512 | NCP | mg/kg | < 1      | < 1      | <1  | 30% | Pass |
| Total PCB*                                           | S23-My0079512 | NCP | mg/kg | < 1      | < 1      | <1  | 30% | Pass |



| Duplicate                                                    |               |     |       |          |          |     |     |      |
|--------------------------------------------------------------|---------------|-----|-------|----------|----------|-----|-----|------|
| Perfluoroalkyl carboxylic acids (PFCAs)                      |               |     |       | Result 1 | Result 2 | RPD |     |      |
| Perfluorobutanoic acid (PFBA)                                | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluoropentanoic acid (PFPeA)                              | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluorohexanoic acid (PFHxA)                               | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluoroheptanoic acid (PFHpA)                              | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluorooctanoic acid (PFOA)                                | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluorononanoic acid (PFNA)                                | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluorodecanoic acid (PFDA)                                | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluoroundecanoic acid (PFUnDA)                            | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluorododecanoic acid (PFDoDA)                            | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluorotridecanoic acid (PFTrDA)                           | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluorotetradecanoic acid (PFTeDA)                         | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Duplicate                                                    |               |     |       |          |          |     |     |      |
| Perfluoroalkyl sulfonamido substances                        |               |     |       | Result 1 | Result 2 | RPD |     |      |
| Perfluorooctane sulfonamide (FOSA)                           | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)            | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)             | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)  | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)    | S23-Jn0005944 | CP  | ug/kg | < 10     | < 10     | <1  | 30% | Pass |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)   | S23-Jn0005944 | CP  | ug/kg | < 10     | < 10     | <1  | 30% | Pass |
| Duplicate                                                    |               |     |       |          |          |     |     |      |
| Perfluoroalkyl sulfonic acids (PFSAs)                        |               |     |       | Result 1 | Result 2 | RPD |     |      |
| Perfluorobutanesulfonic acid (PFBS)                          | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluoropropanesulfonic acid (PFPrS)                        | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluoropentanesulfonic acid (PFPeS)                        | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluorohexanesulfonic acid (PFHxS)                         | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluoroheptanesulfonic acid (PFHpS)                        | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluorooctanesulfonic acid (PFOS)                          | S23-Jn0018951 | NCP | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Perfluorodecanesulfonic acid (PFDS)                          | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| Duplicate                                                    |               |     |       |          |          |     |     |      |
| n:2 Fluorotelomer sulfonic acids (n:2 FTSA)                  |               |     |       | Result 1 | Result 2 | RPD |     |      |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)          | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)           | S23-Jn0005944 | CP  | ug/kg | < 10     | < 10     | <1  | 30% | Pass |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)          | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)       | S23-Jn0005944 | CP  | ug/kg | < 5      | < 5      | <1  | 30% | Pass |

| Duplicate         |               |    |       |          |          |     |     |      |
|-------------------|---------------|----|-------|----------|----------|-----|-----|------|
| Heavy Metals      |               |    |       | Result 1 | Result 2 | RPD |     |      |
| Arsenic           | S23-Jn0005951 | CP | mg/kg | 12       | 12       | 1.1 | 30% | Pass |
| Chromium          | S23-Jn0005951 | CP | mg/kg | 30       | 30       | 2.1 | 30% | Pass |
| Copper            | S23-Jn0005951 | CP | mg/kg | 19       | 15       | 18  | 30% | Pass |
| Lead              | S23-Jn0005951 | CP | mg/kg | 22       | 19       | 17  | 30% | Pass |
| Mercury           | S23-Jn0005951 | CP | mg/kg | < 0.1    | < 0.1    | <1  | 30% | Pass |
| Nickel            | S23-Jn0005951 | CP | mg/kg | 5.9      | 7.2      | 20  | 30% | Pass |
| Zinc              | S23-Jn0005951 | CP | mg/kg | 6.5      | 8.0      | 20  | 30% | Pass |
| Duplicate         |               |    |       |          |          |     |     |      |
| Sample Properties |               |    |       | Result 1 | Result 2 | RPD |     |      |
| % Moisture        | S23-Jn0005951 | CP | %     | 20       | 23       | 10  | 30% | Pass |
| Duplicate         |               |    |       |          |          |     |     |      |
| Heavy Metals      |               |    |       | Result 1 | Result 2 | RPD |     |      |
| Arsenic           | S23-Jn0005952 | CP | mg/kg | 19       | 15       | 25  | 30% | Pass |
| Cadmium           | S23-Jn0005952 | CP | mg/kg | 0.4      | 0.5      | 18  | 30% | Pass |
| Chromium          | S23-Jn0005952 | CP | mg/kg | 47       | 38       | 22  | 30% | Pass |
| Copper            | S23-Jn0005952 | CP | mg/kg | 49       | 53       | 7.1 | 30% | Pass |
| Mercury           | S23-Jn0005952 | CP | mg/kg | 0.1      | 0.1      | 1.4 | 30% | Pass |
| Nickel            | S23-Jn0005952 | CP | mg/kg | 17       | 12       | 33  | 30% | Fail |
| Zinc              | S23-Jn0005952 | CP | mg/kg | 240      | 280      | 14  | 30% | Pass |

## Comments

V3- new version to amend the sums for PFAS on rinsate and blank sample.

## Sample Integrity

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Custody Seals Intact (if used)                                          | N/A |
| Attempt to Chill was evident                                            | Yes |
| Sample correctly preserved                                              | Yes |
| Appropriate sample containers have been used                            | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime                                     | Yes |
| Some samples have been subcontracted                                    | No  |

## Qualifier Codes/Comments

| Code | Description                                                                                                                                                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G01  | The LORs have been raised due to matrix interference                                                                                                                                                                                                                                                                                                                                                                   |
| N01  | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).                                                                                                                                                                                                                   |
| N02  | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04  | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.                                                                                                                              |
| N07  | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs                                                                                                                                                                                                       |
| N11  | Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.                                                                                                                     |
| N15  | Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).                                                                                                                                                 |
| Q15  | The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.                                                                                                                                                                                                                                                    |

## Authorised by:

|                    |                             |
|--------------------|-----------------------------|
| Andrew Black       | Analytical Services Manager |
| Mickael Ros        | Senior Analyst-Metal        |
| Sayeed Abu         | Senior Analyst-Asbestos     |
| Roopesh Rangarajan | Senior Analyst-Volatile     |
| Roopesh Rangarajan | Senior Analyst-Organic      |



**Glenn Jackson**  
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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**JBS & G Australia (NSW) P/L**  
**Level 1, 50 Margaret St**  
**Sydney**  
**NSW 2000**



**NATA Accredited**  
**Accreditation Number 1261**  
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 Arrangement for the mutual recognition of the  
 equivalence of testing, medical testing, calibration,  
 inspection, proficiency testing scheme providers and  
 reference materials producers reports and certificates.

**Attention:** **Alison Smith**

**Report** **995556-W-V3**  
**Project name** **CABRAMATTA**  
**Project ID** **65196**  
**Received Date** **May 31, 2023**

| Client Sample ID                                                            |      |      | BLANK         | RINSATE       |
|-----------------------------------------------------------------------------|------|------|---------------|---------------|
| Sample Matrix                                                               |      |      | Water         | Water         |
| Eurofins Sample No.                                                         |      |      | S23-Jn0005959 | S23-Jn0005960 |
| Date Sampled                                                                |      |      | May 29, 2023  | May 29, 2023  |
| Test/Reference                                                              | LOR  | Unit |               |               |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>                              |      |      |               |               |
| Perfluorobutanoic acid (PFBA) <sup>N11</sup>                                | 0.05 | ug/L | < 0.05        | < 0.05        |
| Perfluoropentanoic acid (PFPeA) <sup>N11</sup>                              | 0.01 | ug/L | < 0.01        | < 0.01        |
| Perfluorohexanoic acid (PFHxA) <sup>N11</sup>                               | 0.01 | ug/L | < 0.01        | < 0.01        |
| Perfluoroheptanoic acid (PFHpA) <sup>N11</sup>                              | 0.01 | ug/L | < 0.01        | < 0.01        |
| Perfluorooctanoic acid (PFOA) <sup>N11</sup>                                | 0.01 | ug/L | < 0.01        | < 0.01        |
| Perfluorononanoic acid (PFNA) <sup>N11</sup>                                | 0.01 | ug/L | < 0.01        | < 0.01        |
| Perfluorodecanoic acid (PFDA) <sup>N11</sup>                                | 0.01 | ug/L | < 0.01        | < 0.01        |
| Perfluoroundecanoic acid (PFUnDA) <sup>N11</sup>                            | 0.01 | ug/L | < 0.01        | < 0.01        |
| Perfluorododecanoic acid (PFDoDA) <sup>N11</sup>                            | 0.01 | ug/L | < 0.01        | < 0.01        |
| Perfluorotridecanoic acid (PFTrDA) <sup>N15</sup>                           | 0.01 | ug/L | < 0.01        | < 0.01        |
| Perfluorotetradecanoic acid (PFTeDA) <sup>N11</sup>                         | 0.01 | ug/L | < 0.01        | < 0.01        |
| 13C4-PFBA (surr.)                                                           | 1    | %    | 94            | 91            |
| 13C5-PFPeA (surr.)                                                          | 1    | %    | 99            | 98            |
| 13C5-PFHxA (surr.)                                                          | 1    | %    | 99            | 95            |
| 13C4-PFHpA (surr.)                                                          | 1    | %    | 98            | 93            |
| 13C8-PFOA (surr.)                                                           | 1    | %    | 96            | 97            |
| 13C5-PFNA (surr.)                                                           | 1    | %    | 94            | 95            |
| 13C6-PFDA (surr.)                                                           | 1    | %    | 93            | 94            |
| 13C2-PFUnDA (surr.)                                                         | 1    | %    | 99            | 98            |
| 13C2-PFDoDA (surr.)                                                         | 1    | %    | 100           | 100           |
| 13C2-PFTeDA (surr.)                                                         | 1    | %    | 92            | 95            |
| <b>Perfluoroalkyl sulfonamido substances</b>                                |      |      |               |               |
| Perfluorooctane sulfonamide (FOSA) <sup>N11</sup>                           | 0.05 | ug/L | < 0.05        | < 0.05        |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) <sup>N11</sup>            | 0.05 | ug/L | < 0.05        | < 0.05        |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) <sup>N11</sup>             | 0.05 | ug/L | < 0.05        | < 0.05        |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) <sup>N11</sup> | 0.05 | ug/L | < 0.05        | < 0.05        |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) <sup>N11</sup>  | 0.05 | ug/L | < 0.05        | < 0.05        |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) <sup>N11</sup>    | 0.05 | ug/L | < 0.05        | < 0.05        |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) <sup>N11</sup>   | 0.05 | ug/L | < 0.05        | < 0.05        |
| 13C8-FOSA (surr.)                                                           | 1    | %    | 99            | 92            |
| D3-N-MeFOSA (surr.)                                                         | 1    | %    | 88            | 80            |
| D5-N-EtFOSA (surr.)                                                         | 1    | %    | 88            | 81            |



|                                                                       |      |      |                      |                      |
|-----------------------------------------------------------------------|------|------|----------------------|----------------------|
| <b>Client Sample ID</b>                                               |      |      | <b>BLANK</b>         | <b>RINSATE</b>       |
| <b>Sample Matrix</b>                                                  |      |      | <b>Water</b>         | <b>Water</b>         |
| <b>Eurofins Sample No.</b>                                            |      |      | <b>S23-Jn0005959</b> | <b>S23-Jn0005960</b> |
| <b>Date Sampled</b>                                                   |      |      | <b>May 29, 2023</b>  | <b>May 29, 2023</b>  |
| Test/Reference                                                        | LOR  | Unit |                      |                      |
| <b>Perfluoroalkyl sulfonamido substances</b>                          |      |      |                      |                      |
| D7-N-MeFOSE (surr.)                                                   | 1    | %    | 42                   | INT                  |
| D9-N-EtFOSE (surr.)                                                   | 1    | %    | 49                   | INT                  |
| D5-N-EtFOSAA (surr.)                                                  | 1    | %    | 94                   | 91                   |
| D3-N-MeFOSAA (surr.)                                                  | 1    | %    | 89                   | 88                   |
| <b>Perfluoroalkyl sulfonic acids (PFSA's)</b>                         |      |      |                      |                      |
| Perfluorobutanesulfonic acid (PFBS) <sup>N11</sup>                    | 0.01 | ug/L | < 0.01               | < 0.01               |
| Perfluorononanesulfonic acid (PFNS) <sup>N15</sup>                    | 0.01 | ug/L | < 0.01               | < 0.01               |
| Perfluoropropanesulfonic acid (PFPrS) <sup>N15</sup>                  | 0.01 | ug/L | < 0.01               | < 0.01               |
| Perfluoropentanesulfonic acid (PFPeS) <sup>N15</sup>                  | 0.01 | ug/L | < 0.01               | < 0.01               |
| Perfluorohexanesulfonic acid (PFHxS) <sup>N11</sup>                   | 0.01 | ug/L | < 0.01               | < 0.01               |
| Perfluoroheptanesulfonic acid (PFHpS) <sup>N15</sup>                  | 0.01 | ug/L | < 0.01               | < 0.01               |
| Perfluorooctanesulfonic acid (PFOS) <sup>N11</sup>                    | 0.01 | ug/L | < 0.01               | < 0.01               |
| Perfluorodecanesulfonic acid (PFDS) <sup>N15</sup>                    | 0.01 | ug/L | < 0.01               | < 0.01               |
| 13C3-PFBS (surr.)                                                     | 1    | %    | 100                  | 99                   |
| 18O2-PFHxS (surr.)                                                    | 1    | %    | 119                  | 108                  |
| 13C8-PFOS (surr.)                                                     | 1    | %    | 104                  | 102                  |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)</b>                  |      |      |                      |                      |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) <sup>N11</sup>    | 0.01 | ug/L | < 0.01               | < 0.01               |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) <sup>N11</sup>     | 0.05 | ug/L | < 0.05               | < 0.05               |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) <sup>N11</sup>    | 0.01 | ug/L | < 0.01               | < 0.01               |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) <sup>N11</sup> | 0.01 | ug/L | < 0.01               | < 0.01               |
| 13C2-4:2 FTSA (surr.)                                                 | 1    | %    | 94                   | 93                   |
| 13C2-6:2 FTSA (surr.)                                                 | 1    | %    | 85                   | 89                   |
| 13C2-8:2 FTSA (surr.)                                                 | 1    | %    | 114                  | 91                   |
| 13C2-10:2 FTSA (surr.)                                                | 1    | %    | 101                  | 90                   |
| <b>PFASs Summations</b>                                               |      |      |                      |                      |
| Sum (PFHxS + PFOS)*                                                   | 0.01 | ug/L | < 0.01               | < 0.01               |
| Sum of US EPA PFAS (PFOS + PFOA)*                                     | 0.01 | ug/L | < 0.01               | < 0.01               |
| Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*                           | 0.01 | ug/L | < 0.01               | < 0.01               |
| Sum of WA DWER PFAS (n=10)*                                           | 0.05 | ug/L | < 0.05               | < 0.05               |
| Sum of PFASs (n=30)*                                                  | 0.1  | ug/L | < 0.1                | < 0.1                |
| <b>Total Recoverable Hydrocarbons</b>                                 |      |      |                      |                      |
| TRH C6-C9                                                             | 0.02 | mg/L | -                    | < 0.02               |
| TRH C10-C14                                                           | 0.05 | mg/L | -                    | < 0.05               |
| TRH C15-C28                                                           | 0.1  | mg/L | -                    | < 0.1                |
| TRH C29-C36                                                           | 0.1  | mg/L | -                    | < 0.1                |
| TRH C10-C36 (Total)                                                   | 0.1  | mg/L | -                    | < 0.1                |
| TRH C6-C10                                                            | 0.02 | mg/L | -                    | < 0.02               |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>                              | 0.02 | mg/L | -                    | < 0.02               |
| TRH >C10-C16                                                          | 0.05 | mg/L | -                    | < 0.05               |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup>                     | 0.05 | mg/L | -                    | < 0.05               |
| TRH >C16-C34                                                          | 0.1  | mg/L | -                    | < 0.1                |
| TRH >C34-C40                                                          | 0.1  | mg/L | -                    | < 0.1                |
| TRH >C10-C40 (total)*                                                 | 0.1  | mg/L | -                    | < 0.1                |

| Client Sample ID             |       |      | BLANK         | RINSATE       |
|------------------------------|-------|------|---------------|---------------|
| Sample Matrix                |       |      | Water         | Water         |
| Eurofins Sample No.          |       |      | S23-Jn0005959 | S23-Jn0005960 |
| Date Sampled                 |       |      | May 29, 2023  | May 29, 2023  |
| Test/Reference               | LOR   | Unit |               |               |
| <b>BTEX</b>                  |       |      |               |               |
| Benzene                      | 0.001 | mg/L | -             | < 0.001       |
| Toluene                      | 0.001 | mg/L | -             | < 0.001       |
| Ethylbenzene                 | 0.001 | mg/L | -             | < 0.001       |
| m&p-Xylenes                  | 0.002 | mg/L | -             | < 0.002       |
| o-Xylene                     | 0.001 | mg/L | -             | < 0.001       |
| Xylenes - Total*             | 0.003 | mg/L | -             | < 0.003       |
| 4-Bromofluorobenzene (surr.) | 1     | %    | -             | 105           |
| <b>Volatile Organics</b>     |       |      |               |               |
| 1.1-Dichloroethane           | 0.001 | mg/L | -             | < 0.001       |
| 1.1-Dichloroethene           | 0.001 | mg/L | -             | < 0.001       |
| 1.1.1-Trichloroethane        | 0.001 | mg/L | -             | < 0.001       |
| 1.1.1.2-Tetrachloroethane    | 0.001 | mg/L | -             | < 0.001       |
| 1.1.2-Trichloroethane        | 0.001 | mg/L | -             | < 0.001       |
| 1.1.2.2-Tetrachloroethane    | 0.001 | mg/L | -             | < 0.001       |
| 1.2-Dibromoethane            | 0.001 | mg/L | -             | < 0.001       |
| 1.2-Dichlorobenzene          | 0.001 | mg/L | -             | < 0.001       |
| 1.2-Dichloroethane           | 0.001 | mg/L | -             | < 0.001       |
| 1.2-Dichloropropane          | 0.001 | mg/L | -             | < 0.001       |
| 1.2.3-Trichloropropane       | 0.001 | mg/L | -             | < 0.001       |
| 1.2.4-Trimethylbenzene       | 0.001 | mg/L | -             | < 0.001       |
| 1.3-Dichlorobenzene          | 0.001 | mg/L | -             | < 0.001       |
| 1.3-Dichloropropane          | 0.001 | mg/L | -             | < 0.001       |
| 1.3.5-Trimethylbenzene       | 0.001 | mg/L | -             | < 0.001       |
| 1.4-Dichlorobenzene          | 0.001 | mg/L | -             | < 0.001       |
| 2-Butanone (MEK)             | 0.005 | mg/L | -             | < 0.005       |
| 2-Propanone (Acetone)        | 0.005 | mg/L | -             | < 0.005       |
| 4-Chlorotoluene              | 0.001 | mg/L | -             | < 0.001       |
| 4-Methyl-2-pentanone (MIBK)  | 0.005 | mg/L | -             | < 0.005       |
| Allyl chloride               | 0.001 | mg/L | -             | < 0.001       |
| Benzene                      | 0.001 | mg/L | -             | < 0.001       |
| Bromobenzene                 | 0.001 | mg/L | -             | < 0.001       |
| Bromochloromethane           | 0.001 | mg/L | -             | < 0.001       |
| Bromodichloromethane         | 0.001 | mg/L | -             | < 0.001       |
| Bromoform                    | 0.001 | mg/L | -             | < 0.001       |
| Bromomethane                 | 0.005 | mg/L | -             | < 0.005       |
| Carbon disulfide             | 0.001 | mg/L | -             | < 0.001       |
| Carbon Tetrachloride         | 0.001 | mg/L | -             | < 0.001       |
| Chlorobenzene                | 0.001 | mg/L | -             | < 0.001       |
| Chloroethane                 | 0.005 | mg/L | -             | < 0.005       |
| Chloroform                   | 0.005 | mg/L | -             | < 0.005       |
| Chloromethane                | 0.005 | mg/L | -             | < 0.005       |
| cis-1.2-Dichloroethene       | 0.001 | mg/L | -             | < 0.001       |
| cis-1.3-Dichloropropene      | 0.001 | mg/L | -             | < 0.001       |
| Dibromochloromethane         | 0.001 | mg/L | -             | < 0.001       |
| Dibromomethane               | 0.001 | mg/L | -             | < 0.001       |
| Dichlorodifluoromethane      | 0.005 | mg/L | -             | < 0.005       |
| Ethylbenzene                 | 0.001 | mg/L | -             | < 0.001       |
| Iodomethane                  | 0.001 | mg/L | -             | < 0.001       |
| Isopropyl benzene (Cumene)   | 0.001 | mg/L | -             | < 0.001       |

|                                                             |            |             |                      |                      |
|-------------------------------------------------------------|------------|-------------|----------------------|----------------------|
| <b>Client Sample ID</b>                                     |            |             | <b>BLANK</b>         | <b>RINSATE</b>       |
| <b>Sample Matrix</b>                                        |            |             | <b>Water</b>         | <b>Water</b>         |
| <b>Eurofins Sample No.</b>                                  |            |             | <b>S23-Jn0005959</b> | <b>S23-Jn0005960</b> |
| <b>Date Sampled</b>                                         |            |             | <b>May 29, 2023</b>  | <b>May 29, 2023</b>  |
| <b>Test/Reference</b>                                       | <b>LOR</b> | <b>Unit</b> |                      |                      |
| <b>Volatile Organics</b>                                    |            |             |                      |                      |
| m&p-Xylenes                                                 | 0.002      | mg/L        | -                    | < 0.002              |
| Methylene Chloride                                          | 0.005      | mg/L        | -                    | < 0.005              |
| o-Xylene                                                    | 0.001      | mg/L        | -                    | < 0.001              |
| Styrene                                                     | 0.001      | mg/L        | -                    | < 0.001              |
| Tetrachloroethene                                           | 0.001      | mg/L        | -                    | < 0.001              |
| Toluene                                                     | 0.001      | mg/L        | -                    | < 0.001              |
| trans-1.2-Dichloroethene                                    | 0.001      | mg/L        | -                    | < 0.001              |
| trans-1.3-Dichloropropene                                   | 0.001      | mg/L        | -                    | < 0.001              |
| Trichloroethene                                             | 0.001      | mg/L        | -                    | < 0.001              |
| Trichlorofluoromethane                                      | 0.005      | mg/L        | -                    | < 0.005              |
| Vinyl chloride                                              | 0.005      | mg/L        | -                    | < 0.005              |
| Xylenes - Total*                                            | 0.003      | mg/L        | -                    | < 0.003              |
| Total MAH*                                                  | 0.003      | mg/L        | -                    | < 0.003              |
| Vic EPA IWRG 621 CHC (Total)*                               | 0.005      | mg/L        | -                    | < 0.005              |
| Vic EPA IWRG 621 Other CHC (Total)*                         | 0.005      | mg/L        | -                    | < 0.005              |
| 4-Bromofluorobenzene (surr.)                                | 1          | %           | -                    | 105                  |
| Toluene-d8 (surr.)                                          | 1          | %           | -                    | 90                   |
| <b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b> |            |             |                      |                      |
| Naphthalene <sup>N02</sup>                                  | 0.01       | mg/L        | -                    | < 0.01               |
| <b>Polycyclic Aromatic Hydrocarbons</b>                     |            |             |                      |                      |
| Acenaphthene                                                | 0.001      | mg/L        | -                    | < 0.001              |
| Acenaphthylene                                              | 0.001      | mg/L        | -                    | < 0.001              |
| Anthracene                                                  | 0.001      | mg/L        | -                    | < 0.001              |
| Benz(a)anthracene                                           | 0.001      | mg/L        | -                    | < 0.001              |
| Benzo(a)pyrene                                              | 0.001      | mg/L        | -                    | < 0.001              |
| Benzo(b&j)fluoranthene <sup>N07</sup>                       | 0.001      | mg/L        | -                    | < 0.001              |
| Benzo(g,h,i)perylene                                        | 0.001      | mg/L        | -                    | < 0.001              |
| Benzo(k)fluoranthene                                        | 0.001      | mg/L        | -                    | < 0.001              |
| Chrysene                                                    | 0.001      | mg/L        | -                    | < 0.001              |
| Dibenz(a,h)anthracene                                       | 0.001      | mg/L        | -                    | < 0.001              |
| Fluoranthene                                                | 0.001      | mg/L        | -                    | < 0.001              |
| Fluorene                                                    | 0.001      | mg/L        | -                    | < 0.001              |
| Indeno(1.2.3-cd)pyrene                                      | 0.001      | mg/L        | -                    | < 0.001              |
| Naphthalene                                                 | 0.001      | mg/L        | -                    | < 0.001              |
| Phenanthrene                                                | 0.001      | mg/L        | -                    | < 0.001              |
| Pyrene                                                      | 0.001      | mg/L        | -                    | < 0.001              |
| Total PAH*                                                  | 0.001      | mg/L        | -                    | < 0.001              |
| 2-Fluorobiphenyl (surr.)                                    | 1          | %           | -                    | 54                   |
| p-Terphenyl-d14 (surr.)                                     | 1          | %           | -                    | 131                  |
| <b>Organochlorine Pesticides</b>                            |            |             |                      |                      |
| Chlordanes - Total                                          | 0.002      | mg/L        | -                    | < 0.002              |
| 4.4'-DDD                                                    | 0.0002     | mg/L        | -                    | < 0.0002             |
| 4.4'-DDE                                                    | 0.0002     | mg/L        | -                    | < 0.0002             |
| 4.4'-DDT                                                    | 0.0002     | mg/L        | -                    | < 0.0002             |
| a-HCH                                                       | 0.0002     | mg/L        | -                    | < 0.0002             |
| Aldrin                                                      | 0.0002     | mg/L        | -                    | < 0.0002             |
| b-HCH                                                       | 0.0002     | mg/L        | -                    | < 0.0002             |
| d-HCH                                                       | 0.0002     | mg/L        | -                    | < 0.0002             |
| Dieldrin                                                    | 0.0002     | mg/L        | -                    | < 0.0002             |

|                                     |        |      |                      |                      |
|-------------------------------------|--------|------|----------------------|----------------------|
| <b>Client Sample ID</b>             |        |      | <b>BLANK</b>         | <b>RINSATE</b>       |
| <b>Sample Matrix</b>                |        |      | <b>Water</b>         | <b>Water</b>         |
| <b>Eurofins Sample No.</b>          |        |      | <b>S23-Jn0005959</b> | <b>S23-Jn0005960</b> |
| <b>Date Sampled</b>                 |        |      | <b>May 29, 2023</b>  | <b>May 29, 2023</b>  |
| Test/Reference                      | LOR    | Unit |                      |                      |
| <b>Organochlorine Pesticides</b>    |        |      |                      |                      |
| Endosulfan I                        | 0.0002 | mg/L | -                    | < 0.0002             |
| Endosulfan II                       | 0.0002 | mg/L | -                    | < 0.0002             |
| Endosulfan sulphate                 | 0.0002 | mg/L | -                    | < 0.0002             |
| Endrin                              | 0.0002 | mg/L | -                    | < 0.0002             |
| Endrin aldehyde                     | 0.0002 | mg/L | -                    | < 0.0002             |
| Endrin ketone                       | 0.0002 | mg/L | -                    | < 0.0002             |
| g-HCH (Lindane)                     | 0.0002 | mg/L | -                    | < 0.0002             |
| Heptachlor                          | 0.0002 | mg/L | -                    | < 0.0002             |
| Heptachlor epoxide                  | 0.0002 | mg/L | -                    | < 0.0002             |
| Hexachlorobenzene                   | 0.0002 | mg/L | -                    | < 0.0002             |
| Methoxychlor                        | 0.0002 | mg/L | -                    | < 0.0002             |
| Toxaphene                           | 0.005  | mg/L | -                    | < 0.005              |
| Aldrin and Dieldrin (Total)*        | 0.0002 | mg/L | -                    | < 0.0002             |
| DDT + DDE + DDD (Total)*            | 0.0002 | mg/L | -                    | < 0.0002             |
| Vic EPA IWRG 621 OCP (Total)*       | 0.002  | mg/L | -                    | < 0.002              |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.002  | mg/L | -                    | < 0.002              |
| Dibutylchloredate (surr.)           | 1      | %    | -                    | 149                  |
| Tetrachloro-m-xylene (surr.)        | 1      | %    | -                    | 112                  |
| <b>Polychlorinated Biphenyls</b>    |        |      |                      |                      |
| Aroclor-1016                        | 0.005  | mg/L | -                    | < 0.005              |
| Aroclor-1221                        | 0.005  | mg/L | -                    | < 0.005              |
| Aroclor-1232                        | 0.005  | mg/L | -                    | < 0.005              |
| Aroclor-1242                        | 0.005  | mg/L | -                    | < 0.005              |
| Aroclor-1248                        | 0.005  | mg/L | -                    | < 0.005              |
| Aroclor-1254                        | 0.005  | mg/L | -                    | < 0.005              |
| Aroclor-1260                        | 0.005  | mg/L | -                    | < 0.005              |
| Total PCB*                          | 0.005  | mg/L | -                    | < 0.005              |
| Dibutylchloredate (surr.)           | 1      | %    | -                    | 149                  |
| Tetrachloro-m-xylene (surr.)        | 1      | %    | -                    | 112                  |
| <b>Heavy Metals</b>                 |        |      |                      |                      |
| Arsenic                             | 0.001  | mg/L | -                    | < 0.001              |
| Cadmium                             | 0.0002 | mg/L | -                    | < 0.0002             |
| Chromium                            | 0.001  | mg/L | -                    | < 0.001              |
| Copper                              | 0.001  | mg/L | -                    | < 0.001              |
| Lead                                | 0.001  | mg/L | -                    | < 0.001              |
| Mercury                             | 0.0001 | mg/L | -                    | < 0.0001             |
| Nickel                              | 0.001  | mg/L | -                    | < 0.001              |
| Zinc                                | 0.005  | mg/L | -                    | < 0.005              |



## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description                                                            | Testing Site | Extracted    | Holding Time |
|------------------------------------------------------------------------|--------------|--------------|--------------|
| <b>Per- and Polyfluoroalkyl Substances (PFASs)</b>                     |              |              |              |
| Perfluoroalkyl carboxylic acids (PFCAs)                                | Sydney       | Jun 05, 2023 | 28 Days      |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| Perfluoroalkyl sulfonamido substances                                  | Sydney       | Jun 09, 2023 | 28 Days      |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| Perfluoroalkyl sulfonic acids (PFSAAs)                                 | Sydney       | Jun 05, 2023 | 28 Days      |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)                           | Sydney       | Jun 05, 2023 | 28 Days      |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| PFASs Summations                                                       | Sydney       | Jun 02, 2023 |              |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| <b>Eurofins Suite B1</b>                                               |              |              |              |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions                   | Sydney       | Jun 05, 2023 | 7 Days       |
| - Method: LTM-ORG-2010 TRH C6-C40                                      |              |              |              |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions                   | Sydney       | Jun 05, 2023 | 7 Days       |
| - Method: LTM-ORG-2010 TRH C6-C40                                      |              |              |              |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions                   | Sydney       | Jun 05, 2023 | 7 Days       |
| - Method: LTM-ORG-2010 TRH C6-C40                                      |              |              |              |
| BTEX                                                                   | Sydney       | Jun 05, 2023 | 14 Days      |
| - Method: LTM-ORG-2010 BTEX and Volatile TRH                           |              |              |              |
| <b>Volatile Organics</b>                                               | Sydney       | Jun 05, 2023 | 7 Days       |
| - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices |              |              |              |
| <b>Polycyclic Aromatic Hydrocarbons</b>                                | Sydney       | Jun 05, 2023 | 7 Days       |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water               |              |              |              |
| <b>Organochlorine Pesticides</b>                                       | Sydney       | Jun 05, 2023 | 7 Days       |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water                     |              |              |              |
| <b>Polychlorinated Biphenyls</b>                                       | Sydney       | Jun 05, 2023 | 7 Days       |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water                     |              |              |              |
| <b>Metals M8</b>                                                       | Sydney       | Jun 05, 2023 | 28 Days      |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS   |              |              |              |

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**Address:** Level 1, 50 Margaret St  
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NSW 2000  
  
**Project Name:** CABRAMATTA  
**Project ID:** 65196

**Order No.:**  
**Report #:** 995556  
**Phone:** 02 8245 0300  
**Fax:**

**Received:** May 31, 2023 5:07 PM  
**Due:** Jun 7, 2023  
**Priority:** 5 Day  
**Contact Name:** Alison Smith

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail                                  |              |              |               |        |               | Asbestos - WA guidelines | HOLD | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|------------------------------------------------|--------------|--------------|---------------|--------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |               |        |               |                          |      |                                  |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |               |        |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| External Laboratory                            |              |              |               |        |               |                          |      |                                  |                           |                           |           |                   |              |                   |                                             |
| No                                             | Sample ID    | Sample Date  | Sampling Time | Matrix | LAB ID        |                          |      |                                  |                           |                           |           |                   |              |                   |                                             |
| 1                                              | BH01_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005944 | X                        |      | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 2                                              | QC01         | May 29, 2023 |               | Soil   | S23-Jn0005945 | X                        |      | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 3                                              | BH02_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005946 | X                        |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 4                                              | BH03_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005947 | X                        |      | X                                | X                         | X                         | X         | X                 | X            | X                 |                                             |
| 5                                              | BH04_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005948 | X                        |      |                                  |                           |                           |           |                   |              |                   |                                             |
| 6                                              | BH04_1_1.1   | May 29, 2023 |               | Soil   | S23-Jn0005949 |                          |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 7                                              | BH05_0.3_0.4 | May 30, 2023 |               | Soil   | S23-Jn0005950 | X                        |      |                                  |                           |                           |           |                   | X            |                   | X                                           |
| 8                                              | BH05_0.5_0.6 | May 30, 2023 |               | Soil   | S23-Jn0005951 |                          |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 9                                              | BH06_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005952 | X                        |      | X                                | X                         | X                         | X         | X                 | X            | X                 |                                             |
| 10                                             | BH07_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005953 | X                        |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 11                                             | MW01_0.3_0.4 | May 29, 2023 |               | Soil   | S23-Jn0005954 | X                        |      | X                                | X                         | X                         | X         |                   | X            |                   | X                                           |

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| Sample Detail                                  |              |              |  |       |               | Asbestos - WA guidelines | HOLD | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|------------------------------------------------|--------------|--------------|--|-------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |  |       |               |                          |      |                                  |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |  |       |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 12                                             | MW02_0.3_0.4 | May 29, 2023 |  | Soil  | S23-Jn0005955 | X                        |      | X                                |                           |                           | X         | X                 | X            | X                 |                                             |
| 13                                             | MW03_0.2_0.3 | May 29, 2023 |  | Soil  | S23-Jn0005956 | X                        |      |                                  |                           |                           |           |                   |              |                   |                                             |
| 14                                             | MW03_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005957 |                          |      | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 15                                             | MW03_7_7.1   | May 29, 2023 |  | Soil  | S23-Jn0005958 |                          |      |                                  |                           |                           |           | X                 | X            | X                 |                                             |
| 16                                             | BLANK        | May 29, 2023 |  | Water | S23-Jn0005959 |                          |      |                                  |                           |                           |           |                   |              |                   | X                                           |
| 17                                             | RINSATE      | May 29, 2023 |  | Water | S23-Jn0005960 |                          |      | X                                | X                         | X                         | X         | X                 |              | X                 | X                                           |
| 18                                             | BH01_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005961 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 19                                             | BH01_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005962 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 20                                             | BH02_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005963 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 21                                             | BH02_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005964 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 22                                             | BH03_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005965 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 23                                             | BH03_1_1.1   | May 29, 2023 |  | Soil  | S23-Jn0005966 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 24                                             | BH04_0.5_0.6 | May 29, 2023 |  | Soil  | S23-Jn0005967 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |

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**Contact Name:** Alison Smith

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail                                  |              |              |  |      |               | Asbestos - WA guidelines | HOLD | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|------------------------------------------------|--------------|--------------|--|------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |  |      |               |                          |      |                                  |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |  |      |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 25                                             | BH05_1_1.1   | May 30, 2023 |  | Soil | S23-Jn0005968 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 26                                             | BH05_1.5_1.6 | May 30, 2023 |  | Soil | S23-Jn0005969 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 27                                             | QC02         | May 30, 2023 |  | Soil | S23-Jn0005970 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 28                                             | BH06_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005971 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 29                                             | BH06_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005972 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 30                                             | BH07_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005973 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 31                                             | BH07_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005974 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 32                                             | MW01_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005975 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 33                                             | MW01_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005976 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 34                                             | MW01_1.5_1.6 | May 29, 2023 |  | Soil | S23-Jn0005977 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 35                                             | MW01_2_2.1   | May 29, 2023 |  | Soil | S23-Jn0005978 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 36                                             | MW01_3_3.1   | May 29, 2023 |  | Soil | S23-Jn0005979 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 37                                             | MW01_4_4.1   | May 29, 2023 |  | Soil | S23-Jn0005980 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |



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|------------------------------------------------|--------------|--------------|--|------|---------------|--------------------------|------|----------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |  |      |               |                          |      |                                  |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |  |      |               | X                        | X    | X                                | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 38                                             | MW01_5_5.1   | May 29, 2023 |  | Soil | S23-Jn0005981 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 39                                             | MW01_6_6.1   | May 29, 2023 |  | Soil | S23-Jn0005982 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 40                                             | MW01_7_7.1   | May 29, 2023 |  | Soil | S23-Jn0005983 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 41                                             | MW02_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005984 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 42                                             | MW02_1_1.1   | May 29, 2023 |  | Soil | S23-Jn0005985 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 43                                             | MW02_1.5_1.6 | May 29, 2023 |  | Soil | S23-Jn0005986 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 44                                             | MW02_2_2.1   | May 29, 2023 |  | Soil | S23-Jn0005987 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 45                                             | MW02_3_3.1   | May 29, 2023 |  | Soil | S23-Jn0005988 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 46                                             | MW02_4_4.1   | May 29, 2023 |  | Soil | S23-Jn0005989 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 47                                             | MW02_5_5.1   | May 29, 2023 |  | Soil | S23-Jn0005990 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 48                                             | MW02_6_6.1   | May 29, 2023 |  | Soil | S23-Jn0005991 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 49                                             | MW02_7_7.1   | May 29, 2023 |  | Soil | S23-Jn0005992 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |
| 50                                             | MW03_0.5_0.6 | May 29, 2023 |  | Soil | S23-Jn0005993 |                          | X    |                                  |                           |                           |           |                   |              |                   |                                             |

**Company Name:** JBS & G Australia (NSW) P/L  
**Address:** Level 1, 50 Margaret St  
Sydney  
NSW 2000

**Project Name:** CABRAMATTA  
**Project ID:** 65196

**Order No.:**  
**Report #:** 995556  
**Phone:** 02 8245 0300  
**Fax:**

**Received:** May 31, 2023 5:07 PM  
**Due:** Jun 7, 2023  
**Priority:** 5 Day  
**Contact Name:** Alison Smith

**Eurofins Analytical Services Manager : Andrew Black**

| Sample Detail                                  |              |              |  |      |               | Asbestos - WA guidelines | HOLD | Polyyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Polychlorinated Biphenyls | Metals M8 | Volatile Organics | Moisture Set | Eurofins Suite B1 | Per- and Polyfluoroalkyl Substances (PFASs) |
|------------------------------------------------|--------------|--------------|--|------|---------------|--------------------------|------|---------------------------------|---------------------------|---------------------------|-----------|-------------------|--------------|-------------------|---------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |              |              |  |      |               |                          |      |                                 |                           |                           | X         |                   |              |                   |                                             |
| Sydney Laboratory - NATA # 1261 Site # 18217   |              |              |  |      |               | X                        | X    | X                               | X                         | X                         | X         | X                 | X            | X                 | X                                           |
| 51                                             | MW03_1.5_1.6 | May 29, 2023 |  | Soil | S23-Jn0005994 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 52                                             | MW03_4_4.1   | May 29, 2023 |  | Soil | S23-Jn0005995 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 53                                             | MW03_5_5.1   | May 29, 2023 |  | Soil | S23-Jn0005996 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 54                                             | MW03_6_6.1   | May 29, 2023 |  | Soil | S23-Jn0005997 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 55                                             | MW03_8_8.1   | May 29, 2023 |  | Soil | S23-Jn0005998 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 56                                             | MW03_9_9.1   | May 29, 2023 |  | Soil | S23-Jn0005999 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| 57                                             | MW03_10_10.1 | May 29, 2023 |  | Soil | S23-Jn0006000 |                          | X    |                                 |                           |                           |           |                   |              |                   |                                             |
| Test Counts                                    |              |              |  |      |               | 11                       | 40   | 12                              | 7                         | 7                         | 12        | 12                | 13           | 12                | 7                                           |

## Internal Quality Control Review and Glossary

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

### Units

|                                                  |                                           |                                                                          |
|--------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------|
| <b>mg/kg:</b> milligrams per kilogram            | <b>mg/L:</b> milligrams per litre         | <b>µg/L:</b> micrograms per litre                                        |
| <b>ppm:</b> parts per million                    | <b>ppb:</b> parts per billion             | <b>%:</b> Percentage                                                     |
| <b>org/100 mL:</b> Organisms per 100 millilitres | <b>NTU:</b> Nephelometric Turbidity Units | <b>MPN/100 mL:</b> Most Probable Number of organisms per 100 millilitres |
| <b>CFU:</b> Colony forming unit                  |                                           |                                                                          |

### Terms

|                         |                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APHA</b>             | American Public Health Association                                                                                                                                                                                                                                                            |
| <b>COC</b>              | Chain of Custody                                                                                                                                                                                                                                                                              |
| <b>CP</b>               | Client Parent - QC was performed on samples pertaining to this report                                                                                                                                                                                                                         |
| <b>CRM</b>              | Certified Reference Material (ISO17034) - reported as percent recovery.                                                                                                                                                                                                                       |
| <b>Dry</b>              | Where a moisture has been determined on a solid sample the result is expressed on a dry basis.                                                                                                                                                                                                |
| <b>Duplicate</b>        | A second piece of analysis from the same sample and reported in the same units as the result to show comparison.                                                                                                                                                                              |
| <b>LOR</b>              | Limit of Reporting.                                                                                                                                                                                                                                                                           |
| <b>LCS</b>              | Laboratory Control Sample - reported as percent recovery.                                                                                                                                                                                                                                     |
| <b>Method Blank</b>     | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.                                                                                                                                |
| <b>NCP</b>              | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.                                                                                                                            |
| <b>RPD</b>              | Relative Percent Difference between two Duplicate pieces of analysis.                                                                                                                                                                                                                         |
| <b>SPIKE</b>            | Addition of the analyte to the sample and reported as percentage recovery.                                                                                                                                                                                                                    |
| <b>SRA</b>              | Sample Receipt Advice                                                                                                                                                                                                                                                                         |
| <b>Surr - Surrogate</b> | The addition of a like compound to the analyte target and reported as percentage recovery.                                                                                                                                                                                                    |
| <b>TBTO</b>             | Tributyltin oxide ( <i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| <b>TCLP</b>             | Toxicity Characteristic Leaching Procedure                                                                                                                                                                                                                                                    |
| <b>TEQ</b>              | Toxic Equivalency Quotient or Total Equivalence                                                                                                                                                                                                                                               |
| <b>QSM</b>              | US Department of Defense Quality Systems Manual Version 5.4                                                                                                                                                                                                                                   |
| <b>US EPA</b>           | United States Environmental Protection Agency                                                                                                                                                                                                                                                 |
| <b>WA DWER</b>          | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA                                                                                                                                                                                                                 |

### QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

### QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

## Quality Control Results

| Test                                                         | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>               |       |          |  |  |                   |             |                 |
| Perfluorobutanoic acid (PFBA)                                | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| Perfluoropentanoic acid (PFPeA)                              | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorohexanoic acid (PFHxA)                               | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluoroheptanoic acid (PFHpA)                              | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorooctanoic acid (PFOA)                                | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorononanoic acid (PFNA)                                | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorodecanoic acid (PFDA)                                | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluoroundecanoic acid (PFUnDA)                            | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorododecanoic acid (PFDoDA)                            | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorotridecanoic acid (PFTriDA)                          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorotetradecanoic acid (PFTeDA)                         | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonamido substances</b>                 |       |          |  |  |                   |             |                 |
| Perfluorooctane sulfonamide (FOSA)                           | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)            | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)             | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)  | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)    | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)   | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonic acids (PFSA's)</b>                |       |          |  |  |                   |             |                 |
| Perfluorobutanesulfonic acid (PFBS)                          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorononanesulfonic acid (PFNS)                          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluoropropanesulfonic acid (PFPrS)                        | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluoropentanesulfonic acid (PFPeS)                        | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorohexanesulfonic acid (PFHxS)                         | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluoroheptanesulfonic acid (PFHpS)                        | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorooctanesulfonic acid (PFOS)                          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorodecanesulfonic acid (PFDS)                          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)</b>         |       |          |  |  |                   |             |                 |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)           | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)       | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b>                        |       |          |  |  |                   |             |                 |
| TRH C6-C9                                                    | mg/L  | < 0.02   |  |  | 0.02              | Pass        |                 |
| TRH C10-C14                                                  | mg/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| TRH C15-C28                                                  | mg/L  | < 0.1    |  |  | 0.1               | Pass        |                 |
| TRH C29-C36                                                  | mg/L  | < 0.1    |  |  | 0.1               | Pass        |                 |
| TRH C6-C10                                                   | mg/L  | < 0.02   |  |  | 0.02              | Pass        |                 |
| TRH >C10-C16                                                 | mg/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| TRH >C16-C34                                                 | mg/L  | < 0.1    |  |  | 0.1               | Pass        |                 |
| TRH >C34-C40                                                 | mg/L  | < 0.1    |  |  | 0.1               | Pass        |                 |
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>BTEX</b>                                                  |       |          |  |  |                   |             |                 |
| Benzene                                                      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |



| Test                        | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|-----------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Toluene                     | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Ethylbenzene                | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| m&p-Xylenes                 | mg/L  | < 0.002  |  |  | 0.002             | Pass        |                 |
| o-Xylene                    | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Xylenes - Total*            | mg/L  | < 0.003  |  |  | 0.003             | Pass        |                 |
| <b>Method Blank</b>         |       |          |  |  |                   |             |                 |
| <b>Volatile Organics</b>    |       |          |  |  |                   |             |                 |
| 1.1-Dichloroethane          | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.1-Dichloroethene          | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.1.1-Trichloroethane       | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.1.1.2-Tetrachloroethane   | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.1.2-Trichloroethane       | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.1.2.2-Tetrachloroethane   | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.2-Dibromoethane           | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.2-Dichlorobenzene         | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.2-Dichloroethane          | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.2-Dichloropropane         | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.2.3-Trichloropropane      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.2.4-Trimethylbenzene      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.3-Dichlorobenzene         | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.3-Dichloropropane         | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.3.5-Trimethylbenzene      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.4-Dichlorobenzene         | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 2-Butanone (MEK)            | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| 2-Propanone (Acetone)       | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| 4-Chlorotoluene             | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 4-Methyl-2-pentanone (MIBK) | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Allyl chloride              | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Bromobenzene                | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Bromochloromethane          | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Bromodichloromethane        | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Bromoform                   | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Bromomethane                | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Carbon disulfide            | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Carbon Tetrachloride        | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Chlorobenzene               | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Chloroethane                | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Chloroform                  | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Chloromethane               | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| cis-1.2-Dichloroethene      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| cis-1.3-Dichloropropene     | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Dibromochloromethane        | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Dibromomethane              | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Dichlorodifluoromethane     | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Iodomethane                 | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Isopropyl benzene (Cumene)  | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Methylene Chloride          | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Styrene                     | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Tetrachloroethene           | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| trans-1.2-Dichloroethene    | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| trans-1.3-Dichloropropene   | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Trichloroethene             | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Trichlorofluoromethane      | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Vinyl chloride              | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |

| Test                                                        | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|-------------------------------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| <b>Method Blank</b>                                         |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b> |       |          |  |  |                   |             |                 |
| Naphthalene                                                 | mg/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| <b>Method Blank</b>                                         |       |          |  |  |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b>                     |       |          |  |  |                   |             |                 |
| Acenaphthene                                                | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Acenaphthylene                                              | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Anthracene                                                  | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Benz(a)anthracene                                           | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Benzo(a)pyrene                                              | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Benzo(b&j)fluoranthene                                      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Benzo(g,h,i)perylene                                        | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Benzo(k)fluoranthene                                        | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Chrysene                                                    | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Dibenz(a,h)anthracene                                       | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Fluoranthene                                                | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Fluorene                                                    | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Indeno(1,2,3-cd)pyrene                                      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Naphthalene                                                 | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Phenanthrene                                                | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Pyrene                                                      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| <b>Method Blank</b>                                         |       |          |  |  |                   |             |                 |
| <b>Organochlorine Pesticides</b>                            |       |          |  |  |                   |             |                 |
| Chlordanes - Total                                          | mg/L  | < 0.002  |  |  | 0.002             | Pass        |                 |
| 4,4'-DDD                                                    | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| 4,4'-DDE                                                    | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| 4,4'-DDT                                                    | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| a-HCH                                                       | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Aldrin                                                      | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| b-HCH                                                       | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| d-HCH                                                       | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Dieldrin                                                    | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Endosulfan I                                                | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Endosulfan II                                               | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Endosulfan sulphate                                         | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Endrin                                                      | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Endrin aldehyde                                             | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Endrin ketone                                               | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| g-HCH (Lindane)                                             | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Heptachlor                                                  | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Heptachlor epoxide                                          | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Hexachlorobenzene                                           | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Methoxychlor                                                | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Toxaphene                                                   | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| <b>Method Blank</b>                                         |       |          |  |  |                   |             |                 |
| <b>Polychlorinated Biphenyls</b>                            |       |          |  |  |                   |             |                 |
| Aroclor-1016                                                | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Aroclor-1221                                                | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Aroclor-1232                                                | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Aroclor-1242                                                | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Aroclor-1248                                                | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Aroclor-1254                                                | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Aroclor-1260                                                | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Total PCB*                                                  | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |

| Test                                                         | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>Heavy Metals</b>                                          |       |          |  |  |                   |             |                 |
| Arsenic                                                      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Cadmium                                                      | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Chromium                                                     | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Copper                                                       | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Lead                                                         | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Mercury                                                      | mg/L  | < 0.0001 |  |  | 0.0001            | Pass        |                 |
| Nickel                                                       | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Zinc                                                         | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>               |       |          |  |  |                   |             |                 |
| Perfluorobutanoic acid (PFBA)                                | %     | 90       |  |  | 50-150            | Pass        |                 |
| Perfluoropentanoic acid (PFPeA)                              | %     | 93       |  |  | 50-150            | Pass        |                 |
| Perfluorohexanoic acid (PFHxA)                               | %     | 94       |  |  | 50-150            | Pass        |                 |
| Perfluoroheptanoic acid (PFHpA)                              | %     | 96       |  |  | 50-150            | Pass        |                 |
| Perfluorooctanoic acid (PFOA)                                | %     | 94       |  |  | 50-150            | Pass        |                 |
| Perfluorononanoic acid (PFNA)                                | %     | 88       |  |  | 50-150            | Pass        |                 |
| Perfluorodecanoic acid (PFDA)                                | %     | 97       |  |  | 50-150            | Pass        |                 |
| Perfluoroundecanoic acid (PFUnDA)                            | %     | 97       |  |  | 50-150            | Pass        |                 |
| Perfluorododecanoic acid (PFDoDA)                            | %     | 95       |  |  | 50-150            | Pass        |                 |
| Perfluorotetradecanoic acid (PFTeDA)                         | %     | 98       |  |  | 50-150            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonamido substances</b>                 |       |          |  |  |                   |             |                 |
| Perfluorooctane sulfonamide (FOSA)                           | %     | 91       |  |  | 50-150            | Pass        |                 |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)            | %     | 97       |  |  | 50-150            | Pass        |                 |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)             | %     | 97       |  |  | 50-150            | Pass        |                 |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) | %     | 91       |  |  | 50-150            | Pass        |                 |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)  | %     | 92       |  |  | 50-150            | Pass        |                 |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)    | %     | 91       |  |  | 50-150            | Pass        |                 |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)   | %     | 99       |  |  | 50-150            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonic acids (PFSAs)</b>                 |       |          |  |  |                   |             |                 |
| Perfluorobutanesulfonic acid (PFBS)                          | %     | 97       |  |  | 50-150            | Pass        |                 |
| Perfluorononanesulfonic acid (PFNS)                          | %     | 103      |  |  | 50-150            | Pass        |                 |
| Perfluoropropanesulfonic acid (PFPrS)                        | %     | 90       |  |  | 50-150            | Pass        |                 |
| Perfluoropentanesulfonic acid (PFPeS)                        | %     | 83       |  |  | 50-150            | Pass        |                 |
| Perfluorohexanesulfonic acid (PFHxS)                         | %     | 91       |  |  | 50-150            | Pass        |                 |
| Perfluoroheptanesulfonic acid (PFHpS)                        | %     | 80       |  |  | 50-150            | Pass        |                 |
| Perfluorooctanesulfonic acid (PFOS)                          | %     | 92       |  |  | 50-150            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA)</b>           |       |          |  |  |                   |             |                 |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)          | %     | 85       |  |  | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)           | %     | 98       |  |  | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)          | %     | 100      |  |  | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)       | %     | 95       |  |  | 50-150            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b>                        |       |          |  |  |                   |             |                 |
| TRH C6-C9                                                    | %     | 88       |  |  | 70-130            | Pass        |                 |
| TRH C10-C14                                                  | %     | 101      |  |  | 70-130            | Pass        |                 |
| TRH C6-C10                                                   | %     | 87       |  |  | 70-130            | Pass        |                 |
| TRH >C10-C16                                                 | %     | 102      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>BTEX</b>                                                  |       |          |  |  |                   |             |                 |

| Test                                                        | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|-------------------------------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Benzene                                                     | %     | 122      |  |  | 70-130            | Pass        |                 |
| Toluene                                                     | %     | 121      |  |  | 70-130            | Pass        |                 |
| Ethylbenzene                                                | %     | 122      |  |  | 70-130            | Pass        |                 |
| m&p-Xylenes                                                 | %     | 122      |  |  | 70-130            | Pass        |                 |
| o-Xylene                                                    | %     | 120      |  |  | 70-130            | Pass        |                 |
| Xylenes - Total*                                            | %     | 122      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                     |       |          |  |  |                   |             |                 |
| <b>Volatile Organics</b>                                    |       |          |  |  |                   |             |                 |
| 1.1-Dichloroethene                                          | %     | 120      |  |  | 70-130            | Pass        |                 |
| 1.1.1-Trichloroethane                                       | %     | 112      |  |  | 70-130            | Pass        |                 |
| 1.2-Dichlorobenzene                                         | %     | 128      |  |  | 70-130            | Pass        |                 |
| 1.2-Dichloroethane                                          | %     | 125      |  |  | 70-130            | Pass        |                 |
| Trichloroethene                                             | %     | 115      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                     |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b> |       |          |  |  |                   |             |                 |
| Naphthalene                                                 | %     | 121      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                     |       |          |  |  |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b>                     |       |          |  |  |                   |             |                 |
| Acenaphthylene                                              | %     | 74       |  |  | 70-130            | Pass        |                 |
| Anthracene                                                  | %     | 91       |  |  | 70-130            | Pass        |                 |
| Benz(a)anthracene                                           | %     | 84       |  |  | 70-130            | Pass        |                 |
| Benzo(a)pyrene                                              | %     | 87       |  |  | 70-130            | Pass        |                 |
| Benzo(b&j)fluoranthene                                      | %     | 83       |  |  | 70-130            | Pass        |                 |
| Benzo(g,h,i)perylene                                        | %     | 84       |  |  | 70-130            | Pass        |                 |
| Benzo(k)fluoranthene                                        | %     | 92       |  |  | 70-130            | Pass        |                 |
| Chrysene                                                    | %     | 90       |  |  | 70-130            | Pass        |                 |
| Dibenz(a,h)anthracene                                       | %     | 76       |  |  | 70-130            | Pass        |                 |
| Fluoranthene                                                | %     | 88       |  |  | 70-130            | Pass        |                 |
| Fluorene                                                    | %     | 77       |  |  | 70-130            | Pass        |                 |
| Indeno(1,2,3-cd)pyrene                                      | %     | 81       |  |  | 70-130            | Pass        |                 |
| Phenanthrene                                                | %     | 76       |  |  | 70-130            | Pass        |                 |
| Pyrene                                                      | %     | 72       |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                     |       |          |  |  |                   |             |                 |
| <b>Organochlorine Pesticides</b>                            |       |          |  |  |                   |             |                 |
| Chlordanes - Total                                          | %     | 86       |  |  | 70-130            | Pass        |                 |
| 4,4'-DDD                                                    | %     | 93       |  |  | 70-130            | Pass        |                 |
| 4,4'-DDE                                                    | %     | 88       |  |  | 70-130            | Pass        |                 |
| 4,4'-DDT                                                    | %     | 88       |  |  | 70-130            | Pass        |                 |
| α-HCH                                                       | %     | 85       |  |  | 70-130            | Pass        |                 |
| Aldrin                                                      | %     | 83       |  |  | 70-130            | Pass        |                 |
| β-HCH                                                       | %     | 85       |  |  | 70-130            | Pass        |                 |
| δ-HCH                                                       | %     | 83       |  |  | 70-130            | Pass        |                 |
| Dieldrin                                                    | %     | 79       |  |  | 70-130            | Pass        |                 |
| Endosulfan I                                                | %     | 81       |  |  | 70-130            | Pass        |                 |
| Endosulfan II                                               | %     | 87       |  |  | 70-130            | Pass        |                 |
| Endosulfan sulphate                                         | %     | 82       |  |  | 70-130            | Pass        |                 |
| Endrin                                                      | %     | 83       |  |  | 70-130            | Pass        |                 |
| Endrin aldehyde                                             | %     | 82       |  |  | 70-130            | Pass        |                 |
| Endrin ketone                                               | %     | 85       |  |  | 70-130            | Pass        |                 |
| γ-HCH (Lindane)                                             | %     | 91       |  |  | 70-130            | Pass        |                 |
| Heptachlor                                                  | %     | 87       |  |  | 70-130            | Pass        |                 |
| Heptachlor epoxide                                          | %     | 83       |  |  | 70-130            | Pass        |                 |
| Hexachlorobenzene                                           | %     | 78       |  |  | 70-130            | Pass        |                 |
| Methoxychlor                                                | %     | 102      |  |  | 70-130            | Pass        |                 |



| Test                                                         |               |           | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------------------------------------|---------------|-----------|-------|----------|--|--|-------------------|-------------|-----------------|
| <b>LCS - % Recovery</b>                                      |               |           |       |          |  |  |                   |             |                 |
| <b>Polychlorinated Biphenyls</b>                             |               |           |       |          |  |  |                   |             |                 |
| Aroclor-1016                                                 |               |           | %     | 79       |  |  | 70-130            | Pass        |                 |
| Aroclor-1260                                                 |               |           | %     | 101      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |               |           |       |          |  |  |                   |             |                 |
| <b>Heavy Metals</b>                                          |               |           |       |          |  |  |                   |             |                 |
| Arsenic                                                      |               |           | %     | 99       |  |  | 80-120            | Pass        |                 |
| Cadmium                                                      |               |           | %     | 94       |  |  | 80-120            | Pass        |                 |
| Chromium                                                     |               |           | %     | 95       |  |  | 80-120            | Pass        |                 |
| Copper                                                       |               |           | %     | 94       |  |  | 80-120            | Pass        |                 |
| Lead                                                         |               |           | %     | 105      |  |  | 80-120            | Pass        |                 |
| Mercury                                                      |               |           | %     | 91       |  |  | 80-120            | Pass        |                 |
| Nickel                                                       |               |           | %     | 94       |  |  | 80-120            | Pass        |                 |
| Zinc                                                         |               |           | %     | 93       |  |  | 80-120            | Pass        |                 |
| Test                                                         | Lab Sample ID | QA Source | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
| <b>Spike - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>               |               |           |       | Result 1 |  |  |                   |             |                 |
| Perfluorobutanoic acid (PFBA)                                | S23-Jn0012621 | NCP       | %     | 97       |  |  | 50-150            | Pass        |                 |
| Perfluoropentanoic acid (PFPeA)                              | S23-Jn0029084 | NCP       | %     | 97       |  |  | 50-150            | Pass        |                 |
| Perfluorohexanoic acid (PFHxA)                               | S23-Jn0012621 | NCP       | %     | 87       |  |  | 50-150            | Pass        |                 |
| Perfluoroheptanoic acid (PFHpA)                              | S23-Jn0012621 | NCP       | %     | 85       |  |  | 50-150            | Pass        |                 |
| Perfluorooctanoic acid (PFOA)                                | S23-Jn0012621 | NCP       | %     | 85       |  |  | 50-150            | Pass        |                 |
| Perfluorononanoic acid (PFNA)                                | S23-Jn0012621 | NCP       | %     | 88       |  |  | 50-150            | Pass        |                 |
| Perfluorodecanoic acid (PFDA)                                | S23-Jn0012621 | NCP       | %     | 86       |  |  | 50-150            | Pass        |                 |
| Perfluoroundecanoic acid (PFUnDA)                            | S23-Jn0012621 | NCP       | %     | 84       |  |  | 50-150            | Pass        |                 |
| Perfluorododecanoic acid (PFDoDA)                            | S23-Jn0012621 | NCP       | %     | 80       |  |  | 50-150            | Pass        |                 |
| Perfluorotetradecanoic acid (PFTeDA)                         | S23-Jn0012621 | NCP       | %     | 73       |  |  | 50-150            | Pass        |                 |
| <b>Spike - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonamido substances</b>                 |               |           |       | Result 1 |  |  |                   |             |                 |
| Perfluorooctane sulfonamide (FOSA)                           | S23-Jn0012621 | NCP       | %     | 78       |  |  | 50-150            | Pass        |                 |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)            | S23-Jn0012621 | NCP       | %     | 82       |  |  | 50-150            | Pass        |                 |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)             | S23-Jn0012621 | NCP       | %     | 82       |  |  | 50-150            | Pass        |                 |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) | S23-Jn0012621 | NCP       | %     | 80       |  |  | 50-150            | Pass        |                 |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)  | S23-Jn0012621 | NCP       | %     | 82       |  |  | 50-150            | Pass        |                 |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)    | S23-Jn0012621 | NCP       | %     | 85       |  |  | 50-150            | Pass        |                 |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)   | S23-Jn0012621 | NCP       | %     | 84       |  |  | 50-150            | Pass        |                 |
| <b>Spike - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonic acids (PFSA's)</b>                |               |           |       | Result 1 |  |  |                   |             |                 |
| Perfluorobutanesulfonic acid (PFBS)                          | S23-Jn0012621 | NCP       | %     | 84       |  |  | 50-150            | Pass        |                 |
| Perfluorononanesulfonic acid (PFNS)                          | S23-Jn0012621 | NCP       | %     | 85       |  |  | 50-150            | Pass        |                 |
| Perfluoropropanesulfonic acid (PFPrS)                        | S23-Jn0012621 | NCP       | %     | 81       |  |  | 50-150            | Pass        |                 |
| Perfluoropentanesulfonic acid (PFPeS)                        | S23-Jn0012621 | NCP       | %     | 77       |  |  | 50-150            | Pass        |                 |

| Test                                                   | Lab Sample ID | QA Source | Units | Result 1 |          |     | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------------------------------|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| Perfluorohexanesulfonic acid (PFHxS)                   | S23-Jn0027561 | NCP       | %     | 83       |          |     | 50-150            | Pass        |                 |
| Perfluoroheptanesulfonic acid (PFHpS)                  | S23-Jn0012621 | NCP       | %     | 81       |          |     | 50-150            | Pass        |                 |
| Perfluorooctanesulfonic acid (PFOS)                    | S23-Jn0012621 | NCP       | %     | 83       |          |     | 50-150            | Pass        |                 |
| <b>Spike - % Recovery</b>                              |               |           |       |          |          |     |                   |             |                 |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)</b>    |               |           |       | Result 1 |          |     |                   |             |                 |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)    | S23-Jn0012621 | NCP       | %     | 90       |          |     | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)     | S23-Jn0012621 | NCP       | %     | 87       |          |     | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)    | S23-Jn0012621 | NCP       | %     | 86       |          |     | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) | S23-Jn0012621 | NCP       | %     | 80       |          |     | 50-150            | Pass        |                 |
| <b>Spike - % Recovery</b>                              |               |           |       |          |          |     |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b>                  |               |           |       | Result 1 |          |     |                   |             |                 |
| TRH C10-C14                                            | N23-Jn0012577 | NCP       | %     | 126      |          |     | 70-130            | Pass        |                 |
| TRH >C10-C16                                           | N23-Jn0012577 | NCP       | %     | 129      |          |     | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>                              |               |           |       |          |          |     |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b>                |               |           |       | Result 1 |          |     |                   |             |                 |
| Anthracene                                             | N23-Jn0004590 | NCP       | %     | 70       |          |     | 70-130            | Pass        |                 |
| Benzo(a)pyrene                                         | N23-Jn0004590 | NCP       | %     | 70       |          |     | 70-130            | Pass        |                 |
| Benzo(k)fluoranthene                                   | N23-Jn0004590 | NCP       | %     | 70       |          |     | 70-130            | Pass        |                 |
| Fluoranthene                                           | N23-Jn0004590 | NCP       | %     | 72       |          |     | 70-130            | Pass        |                 |
| Pyrene                                                 | N23-Jn0004590 | NCP       | %     | 73       |          |     | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>                              |               |           |       |          |          |     |                   |             |                 |
| <b>Organochlorine Pesticides</b>                       |               |           |       | Result 1 |          |     |                   |             |                 |
| Methoxychlor                                           | N23-Jn0004590 | NCP       | %     | 81       |          |     | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>                              |               |           |       |          |          |     |                   |             |                 |
| <b>Heavy Metals</b>                                    |               |           |       | Result 1 |          |     |                   |             |                 |
| Arsenic                                                | N23-Jn0004569 | NCP       | %     | 114      |          |     | 75-125            | Pass        |                 |
| Cadmium                                                | N23-Jn0004569 | NCP       | %     | 105      |          |     | 75-125            | Pass        |                 |
| Chromium                                               | N23-Jn0004569 | NCP       | %     | 94       |          |     | 75-125            | Pass        |                 |
| Copper                                                 | N23-Jn0004569 | NCP       | %     | 87       |          |     | 75-125            | Pass        |                 |
| Lead                                                   | N23-Jn0004569 | NCP       | %     | 99       |          |     | 75-125            | Pass        |                 |
| Mercury                                                | N23-Jn0004569 | NCP       | %     | 92       |          |     | 75-125            | Pass        |                 |
| Nickel                                                 | N23-Jn0004569 | NCP       | %     | 88       |          |     | 75-125            | Pass        |                 |
| Zinc                                                   | N23-Jn0004569 | NCP       | %     | 93       |          |     | 75-125            | Pass        |                 |
| Test                                                   | Lab Sample ID | QA Source | Units | Result 1 |          |     | Acceptance Limits | Pass Limits | Qualifying Code |
| <b>Duplicate</b>                                       |               |           |       |          |          |     |                   |             |                 |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>         |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| Perfluorobutanoic acid (PFBA)                          | S23-Jn0012616 | NCP       | ug/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Perfluoropentanoic acid (PFPeA)                        | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | 0.01     | 13  | 30%               | Pass        |                 |
| Perfluorohexanoic acid (PFHxA)                         | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluoroheptanoic acid (PFHpA)                        | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluorooctanoic acid (PFOA)                          | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluorononanoic acid (PFNA)                          | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluorodecanoic acid (PFDA)                          | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluoroundecanoic acid (PFUnDA)                      | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluorododecanoic acid (PFDoDA)                      | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |

| Test                                                         | Lab Sample ID | QA Source | Units | Result 1 | Result 2 | RPD | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------------------------------------|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| <b>Duplicate</b>                                             |               |           |       |          |          |     |                   |             |                 |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>               |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| Perfluorotridecanoic acid (PFTrDA)                           | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluorotetradecanoic acid (PFTEdA)                         | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| <b>Duplicate</b>                                             |               |           |       |          |          |     |                   |             |                 |
| <b>Perfluoroalkyl sulfonamido substances</b>                 |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| Perfluorooctane sulfonamide (FOSA)                           | S23-Jn0012616 | NCP       | ug/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)            | S23-Jn0012616 | NCP       | ug/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)             | S23-Jn0012616 | NCP       | ug/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) | S23-Jn0012616 | NCP       | ug/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)  | S23-Jn0012616 | NCP       | ug/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)    | S23-Jn0012616 | NCP       | ug/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)   | S23-Jn0012616 | NCP       | ug/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| <b>Duplicate</b>                                             |               |           |       |          |          |     |                   |             |                 |
| <b>Perfluoroalkyl sulfonic acids (PFSA's)</b>                |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| Perfluorobutanesulfonic acid (PFBS)                          | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluoropropanesulfonic acid (PFPrS)                        | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluoropentanesulfonic acid (PFPeS)                        | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluorohexanesulfonic acid (PFHxS)                         | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluoroheptanesulfonic acid (PFHpS)                        | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluorooctanesulfonic acid (PFOS)                          | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| Perfluorodecanesulfonic acid (PFDS)                          | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| <b>Duplicate</b>                                             |               |           |       |          |          |     |                   |             |                 |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)</b>         |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)          | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)           | S23-Jn0012616 | NCP       | ug/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)          | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)       | S23-Jn0012616 | NCP       | ug/L  | < 0.01   | < 0.01   | <1  | 30%               | Pass        |                 |
| <b>Duplicate</b>                                             |               |           |       |          |          |     |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b>                        |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| TRH C6-C9                                                    | S23-Jn0006017 | NCP       | mg/L  | < 0.02   | < 0.02   | <1  | 30%               | Pass        |                 |
| TRH C10-C14                                                  | R23-Jn0008926 | NCP       | mg/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| TRH C15-C28                                                  | R23-Jn0008926 | NCP       | mg/L  | < 0.1    | < 0.1    | <1  | 30%               | Pass        |                 |
| TRH C29-C36                                                  | R23-Jn0008926 | NCP       | mg/L  | < 0.1    | < 0.1    | <1  | 30%               | Pass        |                 |
| TRH C6-C10                                                   | S23-Jn0006017 | NCP       | mg/L  | < 0.02   | < 0.02   | <1  | 30%               | Pass        |                 |
| TRH >C10-C16                                                 | R23-Jn0008926 | NCP       | mg/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| TRH >C16-C34                                                 | R23-Jn0008926 | NCP       | mg/L  | < 0.1    | < 0.1    | <1  | 30%               | Pass        |                 |
| TRH >C34-C40                                                 | R23-Jn0008926 | NCP       | mg/L  | < 0.1    | < 0.1    | <1  | 30%               | Pass        |                 |

| Duplicate                   |               |     |      |          |          |     |     |      |
|-----------------------------|---------------|-----|------|----------|----------|-----|-----|------|
| BTX                         |               |     |      | Result 1 | Result 2 | RPD |     |      |
| Benzene                     | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Toluene                     | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Ethylbenzene                | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| m&p-Xylenes                 | S23-Jn0006017 | NCP | mg/L | < 0.002  | < 0.002  | <1  | 30% | Pass |
| o-Xylene                    | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Xylenes - Total*            | S23-Jn0006017 | NCP | mg/L | < 0.003  | < 0.003  | <1  | 30% | Pass |
| Duplicate                   |               |     |      |          |          |     |     |      |
| Volatile Organics           |               |     |      | Result 1 | Result 2 | RPD |     |      |
| 1.1-Dichloroethane          | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.1-Dichloroethene          | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.1.1-Trichloroethane       | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.1.1.2-Tetrachloroethane   | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.1.2-Trichloroethane       | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.1.2.2-Tetrachloroethane   | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.2-Dibromoethane           | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.2-Dichlorobenzene         | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.2-Dichloroethane          | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.2-Dichloropropane         | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.2.3-Trichloropropane      | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.2.4-Trimethylbenzene      | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.3-Dichlorobenzene         | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.3-Dichloropropane         | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.3.5-Trimethylbenzene      | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 1.4-Dichlorobenzene         | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 2-Butanone (MEK)            | S23-Jn0006017 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| 2-Propanone (Acetone)       | S23-Jn0006017 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| 4-Chlorotoluene             | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| 4-Methyl-2-pentanone (MIBK) | S23-Jn0006017 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Allyl chloride              | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Bromobenzene                | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Bromochloromethane          | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Bromodichloromethane        | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Bromoform                   | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Bromomethane                | S23-Jn0006017 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Carbon disulfide            | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Carbon Tetrachloride        | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Chlorobenzene               | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Chloroethane                | S23-Jn0006017 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Chloroform                  | S23-Jn0006017 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Chloromethane               | S23-Jn0006017 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| cis-1.2-Dichloroethene      | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| cis-1.3-Dichloropropene     | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Dibromochloromethane        | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Dibromomethane              | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Dichlorodifluoromethane     | S23-Jn0006017 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Iodomethane                 | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Isopropyl benzene (Cumene)  | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Methylene Chloride          | S23-Jn0006017 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Styrene                     | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Tetrachloroethene           | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| trans-1.2-Dichloroethene    | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| trans-1.3-Dichloropropene   | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Trichloroethene             | S23-Jn0006017 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Trichlorofluoromethane      | S23-Jn0006017 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Vinyl chloride              | S23-Jn0006017 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |



| Duplicate                                            |               |     |      |          |          |     |     |      |
|------------------------------------------------------|---------------|-----|------|----------|----------|-----|-----|------|
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions |               |     |      | Result 1 | Result 2 | RPD |     |      |
| Naphthalene                                          | S23-Jn0006017 | NCP | mg/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Duplicate                                            |               |     |      |          |          |     |     |      |
| Polycyclic Aromatic Hydrocarbons                     |               |     |      | Result 1 | Result 2 | RPD |     |      |
| Acenaphthene                                         | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Acenaphthylene                                       | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Anthracene                                           | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Benz(a)anthracene                                    | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Benzo(a)pyrene                                       | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Benzo(b&j)fluoranthene                               | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Benzo(g,h,i)perylene                                 | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Benzo(k)fluoranthene                                 | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Chrysene                                             | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Dibenz(a,h)anthracene                                | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Fluoranthene                                         | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Fluorene                                             | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Indeno(1,2,3-cd)pyrene                               | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Naphthalene                                          | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Phenanthrene                                         | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Pyrene                                               | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Duplicate                                            |               |     |      |          |          |     |     |      |
| Organochlorine Pesticides                            |               |     |      | Result 1 | Result 2 | RPD |     |      |
| Chlordanes - Total                                   | S23-Jn0005960 | CP  | mg/L | < 0.002  | < 0.002  | <1  | 30% | Pass |
| 4,4'-DDD                                             | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| 4,4'-DDE                                             | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| 4,4'-DDT                                             | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| a-HCH                                                | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Aldrin                                               | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| b-HCH                                                | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| d-HCH                                                | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Dieldrin                                             | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Endosulfan I                                         | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Endosulfan II                                        | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Endosulfan sulphate                                  | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Endrin                                               | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Endrin aldehyde                                      | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Endrin ketone                                        | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| g-HCH (Lindane)                                      | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Heptachlor                                           | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Heptachlor epoxide                                   | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Hexachlorobenzene                                    | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Methoxychlor                                         | S23-Jn0005960 | CP  | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Toxaphene                                            | S23-Jn0005960 | CP  | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Duplicate                                            |               |     |      |          |          |     |     |      |
| Polychlorinated Biphenyls                            |               |     |      | Result 1 | Result 2 | RPD |     |      |
| Aroclor-1016                                         | S23-Jn0005960 | CP  | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Aroclor-1221                                         | S23-Jn0005960 | CP  | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Aroclor-1232                                         | S23-Jn0005960 | CP  | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Aroclor-1242                                         | S23-Jn0005960 | CP  | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Aroclor-1248                                         | S23-Jn0005960 | CP  | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Aroclor-1254                                         | S23-Jn0005960 | CP  | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Aroclor-1260                                         | S23-Jn0005960 | CP  | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Total PCB*                                           | S23-Jn0005960 | CP  | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |

| Duplicate    |               |     |      |          |          |     |     |      |
|--------------|---------------|-----|------|----------|----------|-----|-----|------|
| Heavy Metals |               |     |      | Result 1 | Result 2 | RPD |     |      |
| Arsenic      | S23-Jn0002371 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Cadmium      | S23-Jn0002371 | NCP | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Chromium     | S23-Jn0002371 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Copper       | S23-Jn0002371 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Lead         | S23-Jn0005960 | CP  | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Mercury      | S23-Jn0002371 | NCP | mg/L | < 0.0001 | < 0.0001 | <1  | 30% | Pass |
| Nickel       | S23-Jn0002371 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Zinc         | S23-Jn0002371 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |

## Comments

V3- new version to amend the sums for PFAS on rinsate and blank sample.

## Sample Integrity

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Custody Seals Intact (if used)                                          | N/A |
| Attempt to Chill was evident                                            | Yes |
| Sample correctly preserved                                              | Yes |
| Appropriate sample containers have been used                            | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime                                     | Yes |
| Some samples have been subcontracted                                    | No  |

## Qualifier Codes/Comments

| Code | Description                                                                                                                                                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N01  | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).                                                                                                                                                                                                                   |
| N02  | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04  | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.                                                                                                                              |
| N07  | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs                                                                                                                                                                                                       |
| N11  | Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.                                                                                                                     |
| N15  | Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).                                                                                                                                                 |

## Authorised by:

|                    |                             |
|--------------------|-----------------------------|
| Andrew Black       | Analytical Services Manager |
| Fang Yee Tan       | Senior Analyst-Metal        |
| Roopesh Rangarajan | Senior Analyst-Organic      |
| Roopesh Rangarajan | Senior Analyst-Volatile     |



**Glenn Jackson**  
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

95966



## Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| Melbourne                                                                                       | Geelong                                                                                        | Sydney                                                                                      | Canberra                                                                                        | Brisbane                                                                                       | Newcastle                                                                                              |
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## Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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| 35 O'Rourke Road<br>Penrose,<br>Auckland 1061<br>Tel: +64 9 526 4551<br>IANZ# 1327 | 43 Detroit Drive<br>Rolleston,<br>Christchurch 7675<br>Tel: +64 3 343 5201<br>IANZ# 1290 |

## Sample Receipt Advice

|                           |                             |
|---------------------------|-----------------------------|
| <b>Company name:</b>      | JBS & G Australia (NSW) P/L |
| <b>Contact name:</b>      | Alison Smith                |
| <b>Project name:</b>      | CABRAMATTA WATER + SV       |
| <b>Project ID:</b>        | 65196                       |
| <b>Turnaround time:</b>   | 5 Day                       |
| <b>Date/Time received</b> | Jun 5, 2023 6:50 PM         |
| <b>Eurofins reference</b> | 996556                      |

## Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 13.5 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

## Notes

Samples received by the laboratory after 5.30pm are deemed to have been received the following working day.

## Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

**Andrew Black on phone : (+61) 2 9900 8490 or by email: [AndrewBlack@eurofins.com](mailto:AndrewBlack@eurofins.com)**

Results will be delivered electronically via email to Alison Smith - [alisonsmith@jbsg.com.au](mailto:alisonsmith@jbsg.com.au).



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email: EnviroSales@eurofins.com

**Company Name:** JBS & G Australia (NSW) P/L  
**Address:** Level 1, 50 Margaret St  
Sydney  
NSW 2000

**Project Name:** CABRAMATTA WATER + SV  
**Project ID:** 65196

**Order No.:**  
**Report #:** 996556  
**Phone:** 02 8245 0300  
**Fax:**

**Received:** Jun 5, 2023 6:50 PM  
**Due:** Jun 14, 2023  
**Priority:** 5 Day  
**Contact Name:** Alison Smith

**Eurofins Analytical Services Manager : Andrew Black**

| Sample Detail                                  |            |              |               |                     |               | Isopropanol | Polycyclic Aromatic Hydrocarbons | Metals M8 | Hardness Set | VOC AIR-TRH (Total Recoverable Hydrocarbons) | Volatile Organics | VOCs in Ambient Air by GC/MS | Total Recoverable Hydrocarbons | BTEXN and Volatile TRH | Per- and Polyfluoroalkyl Substances (PFASs) | BTEXN and Volatile TRH |
|------------------------------------------------|------------|--------------|---------------|---------------------|---------------|-------------|----------------------------------|-----------|--------------|----------------------------------------------|-------------------|------------------------------|--------------------------------|------------------------|---------------------------------------------|------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |            |              |               |                     |               | X           |                                  |           |              | X                                            | X                 | X                            | X                              | X                      |                                             | X                      |
| Sydney Laboratory - NATA # 1261 Site # 18217   |            |              |               |                     |               |             | X                                | X         | X            | X                                            | X                 | X                            | X                              | X                      | X                                           | X                      |
| External Laboratory                            |            |              |               |                     |               |             |                                  |           |              |                                              |                   |                              |                                |                        |                                             |                        |
| No                                             | Sample ID  | Sample Date  | Sampling Time | Matrix              | LAB ID        |             |                                  |           |              |                                              |                   |                              |                                |                        |                                             |                        |
| 1                                              | MW01       | Jun 05, 2023 |               | Water               | S23-Jn0014948 |             | X                                | X         | X            |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 2                                              | MW02       | Jun 05, 2023 |               | Water               | S23-Jn0014949 |             | X                                | X         | X            |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 3                                              | MW03       | Jun 05, 2023 |               | Water               | S23-Jn0014950 |             | X                                | X         | X            |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 4                                              | QC01       | Jun 05, 2023 |               | Water               | S23-Jn0014951 |             | X                                | X         |              |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 5                                              | BLANK      | Jun 05, 2023 |               | Water               | S23-Jn0014952 |             |                                  |           |              |                                              |                   |                              |                                |                        | X                                           |                        |
| 6                                              | RINSATE    | Jun 05, 2023 |               | Water               | S23-Jn0014953 |             | X                                | X         |              |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 7                                              | TS         | Jun 05, 2023 |               | Trip Spike (liquid) | S23-Jn0014954 |             |                                  |           |              |                                              |                   |                              |                                |                        |                                             | X                      |
| 8                                              | TB         | Jun 05, 2023 |               | Trip Blank (liquid) | S23-Jn0014955 |             |                                  |           |              |                                              |                   |                              |                                | X                      |                                             |                        |
| 9                                              | SV01 FRONT | Jun 05, 2023 |               | Air                 | S23-Jn0014956 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 10                                             | SV01 BACK  | Jun 05, 2023 |               | Air                 | S23-Jn0014957 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 11                                             | SV02 FRONT | Jun 05, 2023 |               | Air                 | S23-Jn0014958 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |



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|------------------------------------------------|------------|--------------|--|-----|---------------|-------------|----------------------------------|-----------|--------------|----------------------------------------------|-------------------|------------------------------|--------------------------------|------------------------|---------------------------------------------|------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |            |              |  |     |               | X           |                                  |           |              | X                                            | X                 | X                            | X                              | X                      |                                             | X                      |
| Sydney Laboratory - NATA # 1261 Site # 18217   |            |              |  |     |               |             | X                                | X         | X            | X                                            | X                 | X                            | X                              | X                      | X                                           | X                      |
| 12                                             | SV02 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014959 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 13                                             | SV03 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014960 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 14                                             | SV03 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014961 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 15                                             | SV04 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014962 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 16                                             | SV04 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014963 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 17                                             | SV05 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014964 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 18                                             | SV05 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014965 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 19                                             | SV06 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014966 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 20                                             | SV06 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014967 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 21                                             | SV07 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014968 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 22                                             | SV07 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014969 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 23                                             | SV08 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014970 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 24                                             | SV08 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014971 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 25                                             | DUP FRONT  | Jun 05, 2023 |  | Air | S23-Jn0014972 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 26                                             | DUP BACK   | Jun 05, 2023 |  | Air | S23-Jn0014973 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |



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|------------------------------------------------|----------------|--------------|--|-----|---------------|-------------|----------------------------------|-----------|--------------|----------------------------------------------|-------------------|------------------------------|--------------------------------|------------------------|---------------------------------------------|------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |                |              |  |     |               | X           |                                  |           |              | X                                            | X                 | X                            | X                              | X                      |                                             | X                      |
| Sydney Laboratory - NATA # 1261 Site # 18217   |                |              |  |     |               |             | X                                | X         | X            | X                                            | X                 | X                            | X                              | X                      | X                                           | X                      |
| 27                                             | SV BLANK FRONT | Jun 05, 2023 |  | Air | S23-Jn0014974 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 28                                             | SV BLANK BACK  | Jun 05, 2023 |  | Air | S23-Jn0014975 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| Test Counts                                    |                |              |  |     |               | 20          | 5                                | 5         | 3            | 20                                           | 5                 | 20                           | 5                              | 1                      | 6                                           | 1                      |



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**Level 1, 50 Margaret St**  
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**NSW 2000**



**NATA Accredited**  
**Accreditation Number 1261**  
**Site Number 1254**

Accredited for compliance with ISO/IEC 17025 – Testing  
 NATA is a signatory to the ILAC Mutual Recognition  
 Arrangement for the mutual recognition of the  
 equivalence of testing, medical testing, calibration,  
 inspection, proficiency testing scheme providers and  
 reference materials producers reports and certificates.

**Attention:** **Alison Smith**

**Report** **996556-A**  
 Project name **CABRAMATTA WATER + SV**  
 Project ID **65196**  
 Received Date **Jun 05, 2023**

| Client Sample ID                    |     |          | SV01 FRONT    | SV01 BACK     | SV02 FRONT    | SV02 BACK     |
|-------------------------------------|-----|----------|---------------|---------------|---------------|---------------|
| Sample Matrix                       |     |          | Air           | Air           | Air           | Air           |
| Eurofins Sample No.                 |     |          | S23-Jn0014956 | S23-Jn0014957 | S23-Jn0014958 | S23-Jn0014959 |
| Date Sampled                        |     |          | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  |
| Test/Reference                      | LOR | Unit     |               |               |               |               |
| <b>Alcohols</b>                     |     |          |               |               |               |               |
| Isopropanol                         | 10  | Total ug | < 10          | < 10          | < 10          | < 10          |
| <b>VOCs in Ambient Air by GC/MS</b> |     |          |               |               |               |               |
| 1.1-Dichloroethane                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1-Dichloroethene                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1-Dichloropropene                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.1-Trichloroethane               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.1.2-Tetrachloroethane           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.2-Trichloroethane               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.2.2-Tetrachloroethane           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dibromo-3-chloropropane         | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dibromoethane                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dichloroethane                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dichloropropane                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.3-Trichloropropane              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.4-Trimethylbenzene              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.3-Dichloropropane                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.3.5-Trimethylbenzene              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 2-Chlorotoluene                     | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 2.2-Dichloropropane                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 4-Chlorotoluene                     | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzene                             | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Bromochloromethane                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Bromodichloromethane                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Bromoform                           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Carbon Tetrachloride                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Chlorobenzene                       | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Chloroform                          | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| cis-1.2-Dichloroethene              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| cis-1.3-Dichloropropene             | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Dibromochloromethane                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Dibromomethane                      | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Ethylbenzene                        | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Isopropyl benzene (Cumene)          | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| n-Butylbenzene                      | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| n-Propylbenzene                     | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |

| Client Sample ID                                  |     |          | SV01 FRONT    | SV01 BACK     | SV02 FRONT    | SV02 BACK     |
|---------------------------------------------------|-----|----------|---------------|---------------|---------------|---------------|
| Sample Matrix                                     |     |          | Air           | Air           | Air           | Air           |
| Eurofins Sample No.                               |     |          | S23-Jn0014956 | S23-Jn0014957 | S23-Jn0014958 | S23-Jn0014959 |
| Date Sampled                                      |     |          | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  |
| Test/Reference                                    | LOR | Unit     |               |               |               |               |
| <b>VOCs in Ambient Air by GC/MS</b>               |     |          |               |               |               |               |
| Naphthalene                                       | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| p-Isopropyltoluene                                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| sec-Butylbenzene                                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Styrene                                           | 5   | Total ug | < 5           | < 5           | < 5           | < 5           |
| tert-Butylbenzene                                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Tetrachloroethene                                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Toluene                                           | 0.5 | Total ug | 2.0           | < 0.5         | < 0.5         | < 0.5         |
| trans-1.3-Dichloropropene                         | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Trichloroethene                                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Trichlorofluoromethane                            | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Vinyl chloride                                    | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Xylenes - Total*                                  | 1.5 | Total ug | 1.5           | < 1.5         | < 1.5         | < 1.5         |
| Fluorobenzene (surr.)                             | 1   | %        | 96            | 99            | 96            | 99            |
| 4-Bromofluorobenzene (surr.)                      | 1   | %        | 97            | 100           | 101           | 102           |
| Dibromofluoromethane (surr.)                      | 1   | %        | 100           | 100           | 100           | 100           |
| 1.2-Dichlorobenzene                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.3-Trichlorobenzene                            | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.4-Trichlorobenzene                            | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.3-Dichlorobenzene                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.4-Dichlorobenzene                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Hexachlorobutadiene                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| <b>Total Recoverable Hydrocarbons</b>             |     |          |               |               |               |               |
| TRH C6-C10                                        | 20  | Total ug | 51            | < 20          | < 20          | < 20          |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>          | 20  | Total ug | 48            | < 20          | < 20          | < 20          |
| TRH >C10-C16                                      | 20  | Total ug | < 20          | < 20          | < 20          | < 20          |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 20  | Total ug | < 20          | < 20          | < 20          | < 20          |

| Client Sample ID                    |     |          | SV03 FRONT    | SV03 BACK     | SV04 FRONT    | SV04 BACK     |
|-------------------------------------|-----|----------|---------------|---------------|---------------|---------------|
| Sample Matrix                       |     |          | Air           | Air           | Air           | Air           |
| Eurofins Sample No.                 |     |          | S23-Jn0014960 | S23-Jn0014961 | S23-Jn0014962 | S23-Jn0014963 |
| Date Sampled                        |     |          | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  |
| Test/Reference                      | LOR | Unit     |               |               |               |               |
| <b>Alcohols</b>                     |     |          |               |               |               |               |
| Isopropanol                         | 10  | Total ug | < 10          | < 10          | < 10          | < 10          |
| <b>VOCs in Ambient Air by GC/MS</b> |     |          |               |               |               |               |
| 1.1-Dichloroethane                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1-Dichloroethene                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1-Dichloropropene                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.1-Trichloroethane               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.1.2-Tetrachloroethane           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.2-Trichloroethane               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.2.2-Tetrachloroethane           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dibromo-3-chloropropane         | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dibromoethane                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dichloroethane                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dichloropropane                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.3-Trichloropropane              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.4-Trimethylbenzene              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |

| Client Sample ID                                  |     |          | SV03 FRONT    | SV03 BACK     | SV04 FRONT    | SV04 BACK     |
|---------------------------------------------------|-----|----------|---------------|---------------|---------------|---------------|
| Sample Matrix                                     |     |          | Air           | Air           | Air           | Air           |
| Eurofins Sample No.                               |     |          | S23-Jn0014960 | S23-Jn0014961 | S23-Jn0014962 | S23-Jn0014963 |
| Date Sampled                                      |     |          | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  |
| Test/Reference                                    | LOR | Unit     |               |               |               |               |
| <b>VOCs in Ambient Air by GC/MS</b>               |     |          |               |               |               |               |
| 1.3-Dichloropropane                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.3.5-Trimethylbenzene                            | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 2-Chlorotoluene                                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 2.2-Dichloropropane                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 4-Chlorotoluene                                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzene                                           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Bromochloromethane                                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Bromodichloromethane                              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Bromoform                                         | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Carbon Tetrachloride                              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Chlorobenzene                                     | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Chloroform                                        | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| cis-1.2-Dichloroethene                            | 0.5 | Total ug | 4.4           | < 0.5         | < 0.5         | < 0.5         |
| cis-1.3-Dichloropropene                           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Dibromochloromethane                              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Dibromomethane                                    | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Ethylbenzene                                      | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Isopropyl benzene (Cumene)                        | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| n-Butylbenzene                                    | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| n-Propylbenzene                                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Naphthalene                                       | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| p-Isopropyltoluene                                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| sec-Butylbenzene                                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Styrene                                           | 5   | Total ug | < 5           | < 5           | < 5           | < 5           |
| tert-Butylbenzene                                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Tetrachloroethene                                 | 0.5 | Total ug | 12            | < 0.5         | < 0.5         | < 0.5         |
| Toluene                                           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| trans-1.3-Dichloropropene                         | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Trichloroethene                                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Trichlorofluoromethane                            | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Vinyl chloride                                    | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Xylenes - Total*                                  | 1.5 | Total ug | < 1.5         | < 1.5         | < 1.5         | < 1.5         |
| Fluorobenzene (surr.)                             | 1   | %        | 98            | 96            | 96            | 95            |
| 4-Bromofluorobenzene (surr.)                      | 1   | %        | 98            | 99            | 97            | 97            |
| Dibromofluoromethane (surr.)                      | 1   | %        | 100           | 100           | 100           | 100           |
| 1.2-Dichlorobenzene                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.3-Trichlorobenzene                            | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.4-Trichlorobenzene                            | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.3-Dichlorobenzene                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.4-Dichlorobenzene                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Hexachlorobutadiene                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| <b>Total Recoverable Hydrocarbons</b>             |     |          |               |               |               |               |
| TRH C6-C10                                        | 20  | Total ug | < 20          | < 20          | < 20          | < 20          |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>          | 20  | Total ug | < 20          | < 20          | < 20          | < 20          |
| TRH >C10-C16                                      | 20  | Total ug | < 20          | < 20          | < 20          | < 20          |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 20  | Total ug | < 20          | < 20          | < 20          | < 20          |

| Client Sample ID                    |     |          | SV05 FRONT    | SV05 BACK     | SV06 FRONT    | SV06 BACK     |
|-------------------------------------|-----|----------|---------------|---------------|---------------|---------------|
| Sample Matrix                       |     |          | Air           | Air           | Air           | Air           |
| Eurofins Sample No.                 |     |          | S23-Jn0014964 | S23-Jn0014965 | S23-Jn0014966 | S23-Jn0014967 |
| Date Sampled                        |     |          | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  |
| Test/Reference                      | LOR | Unit     |               |               |               |               |
| <b>Alcohols</b>                     |     |          |               |               |               |               |
| Isopropanol                         | 10  | Total ug | < 10          | < 10          | < 10          | < 10          |
| <b>VOCs in Ambient Air by GC/MS</b> |     |          |               |               |               |               |
| 1.1-Dichloroethane                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1-Dichloroethene                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1-Dichloropropene                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.1-Trichloroethane               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.1.2-Tetrachloroethane           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.2-Trichloroethane               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.1.2.2-Tetrachloroethane           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dibromo-3-chloropropane         | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dibromoethane                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dichloroethane                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2-Dichloropropane                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.3-Trichloropropane              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.4-Trimethylbenzene              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.3-Dichloropropane                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.3.5-Trimethylbenzene              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 2-Chlorotoluene                     | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 2.2-Dichloropropane                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 4-Chlorotoluene                     | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Benzene                             | 0.5 | Total ug | < 0.5         | < 0.5         | 0.7           | < 0.5         |
| Bromochloromethane                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Bromodichloromethane                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Bromoform                           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Carbon Tetrachloride                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Chlorobenzene                       | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Chloroform                          | 0.5 | Total ug | < 0.5         | < 0.5         | 2.4           | < 0.5         |
| cis-1.2-Dichloroethene              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| cis-1.3-Dichloropropene             | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Dibromochloromethane                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Dibromomethane                      | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Ethylbenzene                        | 0.5 | Total ug | < 0.5         | < 0.5         | 0.7           | < 0.5         |
| Isopropyl benzene (Cumene)          | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| n-Butylbenzene                      | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| n-Propylbenzene                     | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Naphthalene                         | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| p-Isopropyltoluene                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| sec-Butylbenzene                    | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Styrene                             | 5   | Total ug | < 5           | < 5           | < 5           | < 5           |
| tert-Butylbenzene                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Tetrachloroethene                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Toluene                             | 0.5 | Total ug | < 0.5         | < 0.5         | 2.5           | < 0.5         |
| trans-1.3-Dichloropropene           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Trichloroethene                     | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Trichlorofluoromethane              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Vinyl chloride                      | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Xylenes - Total*                    | 1.5 | Total ug | < 1.5         | < 1.5         | 2.4           | < 1.5         |
| Fluorobenzene (surr.)               | 1   | %        | 100           | 99            | 95            | 98            |
| 4-Bromofluorobenzene (surr.)        | 1   | %        | 98            | 102           | 101           | 104           |



|                                                   |     |          |                      |                      |                      |                      |
|---------------------------------------------------|-----|----------|----------------------|----------------------|----------------------|----------------------|
| <b>Client Sample ID</b>                           |     |          | <b>SV05 FRONT</b>    | <b>SV05 BACK</b>     | <b>SV06 FRONT</b>    | <b>SV06 BACK</b>     |
| <b>Sample Matrix</b>                              |     |          | <b>Air</b>           | <b>Air</b>           | <b>Air</b>           | <b>Air</b>           |
| <b>Eurofins Sample No.</b>                        |     |          | <b>S23-Jn0014964</b> | <b>S23-Jn0014965</b> | <b>S23-Jn0014966</b> | <b>S23-Jn0014967</b> |
| <b>Date Sampled</b>                               |     |          | <b>Jun 05, 2023</b>  | <b>Jun 05, 2023</b>  | <b>Jun 05, 2023</b>  | <b>Jun 05, 2023</b>  |
| Test/Reference                                    | LOR | Unit     |                      |                      |                      |                      |
| <b>VOCs in Ambient Air by GC/MS</b>               |     |          |                      |                      |                      |                      |
| Dibromofluoromethane (surr.)                      | 1   | %        | 100                  | 100                  | 100                  | 100                  |
| 1.2-Dichlorobenzene                               | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.2.3-Trichlorobenzene                            | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.2.4-Trichlorobenzene                            | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.3-Dichlorobenzene                               | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.4-Dichlorobenzene                               | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| Hexachlorobutadiene                               | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| <b>Total Recoverable Hydrocarbons</b>             |     |          |                      |                      |                      |                      |
| TRH C6-C10                                        | 20  | Total ug | < 20                 | < 20                 | < 20                 | < 20                 |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>          | 20  | Total ug | < 20                 | < 20                 | < 20                 | < 20                 |
| TRH >C10-C16                                      | 20  | Total ug | < 20                 | < 20                 | < 20                 | < 20                 |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 20  | Total ug | < 20                 | < 20                 | < 20                 | < 20                 |

|                                     |     |          |                      |                      |                      |                      |
|-------------------------------------|-----|----------|----------------------|----------------------|----------------------|----------------------|
| <b>Client Sample ID</b>             |     |          | <b>SV07 FRONT</b>    | <b>SV07 BACK</b>     | <b>SV08 FRONT</b>    | <b>SV08 BACK</b>     |
| <b>Sample Matrix</b>                |     |          | <b>Air</b>           | <b>Air</b>           | <b>Air</b>           | <b>Air</b>           |
| <b>Eurofins Sample No.</b>          |     |          | <b>S23-Jn0014968</b> | <b>S23-Jn0014969</b> | <b>S23-Jn0014970</b> | <b>S23-Jn0014971</b> |
| <b>Date Sampled</b>                 |     |          | <b>Jun 05, 2023</b>  | <b>Jun 05, 2023</b>  | <b>Jun 05, 2023</b>  | <b>Jun 05, 2023</b>  |
| Test/Reference                      | LOR | Unit     |                      |                      |                      |                      |
| <b>Alcohols</b>                     |     |          |                      |                      |                      |                      |
| Isopropanol                         | 10  | Total ug | < 10                 | < 10                 | < 10                 | < 10                 |
| <b>VOCs in Ambient Air by GC/MS</b> |     |          |                      |                      |                      |                      |
| 1.1-Dichloroethane                  | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.1-Dichloroethene                  | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.1-Dichloropropene                 | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.1.1-Trichloroethane               | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.1.1.2-Tetrachloroethane           | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.1.2-Trichloroethane               | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.1.2.2-Tetrachloroethane           | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.2-Dibromo-3-chloropropane         | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.2-Dibromoethane                   | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.2-Dichloroethane                  | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.2-Dichloropropane                 | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.2.3-Trichloropropane              | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.2.4-Trimethylbenzene              | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.3-Dichloropropane                 | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 1.3.5-Trimethylbenzene              | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 2-Chlorotoluene                     | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 2.2-Dichloropropane                 | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| 4-Chlorotoluene                     | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| Benzene                             | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| Bromochloromethane                  | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| Bromodichloromethane                | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| Bromoform                           | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| Carbon Tetrachloride                | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| Chlorobenzene                       | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| Chloroform                          | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| cis-1.2-Dichloroethene              | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |
| cis-1.3-Dichloropropene             | 0.5 | Total ug | < 0.5                | < 0.5                | < 0.5                | < 0.5                |

| Client Sample ID                                  |     |          | SV07 FRONT    | SV07 BACK     | SV08 FRONT    | SV08 BACK     |
|---------------------------------------------------|-----|----------|---------------|---------------|---------------|---------------|
| Sample Matrix                                     |     |          | Air           | Air           | Air           | Air           |
| Eurofins Sample No.                               |     |          | S23-Jn0014968 | S23-Jn0014969 | S23-Jn0014970 | S23-Jn0014971 |
| Date Sampled                                      |     |          | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  |
| Test/Reference                                    | LOR | Unit     |               |               |               |               |
| <b>VOCs in Ambient Air by GC/MS</b>               |     |          |               |               |               |               |
| Dibromochloromethane                              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Dibromomethane                                    | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Ethylbenzene                                      | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Isopropyl benzene (Cumene)                        | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| n-Butylbenzene                                    | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| n-Propylbenzene                                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Naphthalene                                       | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| p-Isopropyltoluene                                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| sec-Butylbenzene                                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Styrene                                           | 5   | Total ug | < 5           | < 5           | < 5           | < 5           |
| tert-Butylbenzene                                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Tetrachloroethene                                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Toluene                                           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| trans-1.3-Dichloropropene                         | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Trichloroethene                                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Trichlorofluoromethane                            | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Vinyl chloride                                    | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Xylenes - Total*                                  | 1.5 | Total ug | < 1.5         | < 1.5         | < 1.5         | < 1.5         |
| Fluorobenzene (surr.)                             | 1   | %        | 99            | 99            | 98            | 103           |
| 4-Bromofluorobenzene (surr.)                      | 1   | %        | 100           | 102           | 100           | 103           |
| Dibromofluoromethane (surr.)                      | 1   | %        | 100           | 100           | 100           | 100           |
| 1.2-Dichlorobenzene                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.3-Trichlorobenzene                            | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.2.4-Trichlorobenzene                            | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.3-Dichlorobenzene                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 1.4-Dichlorobenzene                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| Hexachlorobutadiene                               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| <b>Total Recoverable Hydrocarbons</b>             |     |          |               |               |               |               |
| TRH C6-C10                                        | 20  | Total ug | < 20          | < 20          | < 20          | < 20          |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>          | 20  | Total ug | < 20          | < 20          | < 20          | < 20          |
| TRH >C10-C16                                      | 20  | Total ug | < 20          | < 20          | < 20          | < 20          |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 20  | Total ug | < 20          | < 20          | < 20          | < 20          |

| Client Sample ID                    |     |          | DUP FRONT     | DUP BACK      | SV BLANK FRONT | SV BLANK BACK |
|-------------------------------------|-----|----------|---------------|---------------|----------------|---------------|
| Sample Matrix                       |     |          | Air           | Air           | Air            | Air           |
| Eurofins Sample No.                 |     |          | S23-Jn0014972 | S23-Jn0014973 | S23-Jn0014974  | S23-Jn0014975 |
| Date Sampled                        |     |          | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023   | Jun 05, 2023  |
| Test/Reference                      | LOR | Unit     |               |               |                |               |
| <b>Alcohols</b>                     |     |          |               |               |                |               |
| Isopropanol                         | 10  | Total ug | < 10          | < 10          | < 10           | < 10          |
| <b>VOCs in Ambient Air by GC/MS</b> |     |          |               |               |                |               |
| 1.1-Dichloroethane                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.1-Dichloroethene                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.1-Dichloropropene                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.1.1-Trichloroethane               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.1.1.2-Tetrachloroethane           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.1.2-Trichloroethane               | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |

| Client Sample ID                    |     |          | DUP FRONT     | DUP BACK      | SV BLANK FRONT | SV BLANK BACK |
|-------------------------------------|-----|----------|---------------|---------------|----------------|---------------|
| Sample Matrix                       |     |          | Air           | Air           | Air            | Air           |
| Eurofins Sample No.                 |     |          | S23-Jn0014972 | S23-Jn0014973 | S23-Jn0014974  | S23-Jn0014975 |
| Date Sampled                        |     |          | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023   | Jun 05, 2023  |
| Test/Reference                      | LOR | Unit     |               |               |                |               |
| <b>VOCs in Ambient Air by GC/MS</b> |     |          |               |               |                |               |
| 1.1.2.2-Tetrachloroethane           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.2-Dibromo-3-chloropropane         | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.2-Dibromoethane                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.2-Dichloroethane                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.2-Dichloropropane                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.2.3-Trichloropropane              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.2.4-Trimethylbenzene              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.3-Dichloropropane                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.3.5-Trimethylbenzene              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 2-Chlorotoluene                     | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 2.2-Dichloropropane                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 4-Chlorotoluene                     | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Benzene                             | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Bromochloromethane                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Bromodichloromethane                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Bromoform                           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Carbon Tetrachloride                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Chlorobenzene                       | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Chloroform                          | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| cis-1.2-Dichloroethene              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| cis-1.3-Dichloropropene             | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Dibromochloromethane                | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Dibromomethane                      | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Ethylbenzene                        | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Isopropyl benzene (Cumene)          | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| n-Butylbenzene                      | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| n-Propylbenzene                     | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Naphthalene                         | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| p-Isopropyltoluene                  | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| sec-Butylbenzene                    | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Styrene                             | 5   | Total ug | < 5           | < 5           | < 5            | < 5           |
| tert-Butylbenzene                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Tetrachloroethene                   | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Toluene                             | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| trans-1.3-Dichloropropene           | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Trichloroethene                     | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Trichlorofluoromethane              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Vinyl chloride                      | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Xylenes - Total*                    | 1.5 | Total ug | < 1.5         | < 1.5         | < 1.5          | < 1.5         |
| Fluorobenzene (surr.)               | 1   | %        | 98            | 98            | 96             | 93            |
| 4-Bromofluorobenzene (surr.)        | 1   | %        | 99            | 102           | 100            | 98            |
| Dibromofluoromethane (surr.)        | 1   | %        | 100           | 100           | 100            | 100           |
| 1.2-Dichlorobenzene                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.2.3-Trichlorobenzene              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.2.4-Trichlorobenzene              | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.3-Dichlorobenzene                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| 1.4-Dichlorobenzene                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |
| Hexachlorobutadiene                 | 0.5 | Total ug | < 0.5         | < 0.5         | < 0.5          | < 0.5         |

|                                                   |            |             |                      |                      |                       |                      |
|---------------------------------------------------|------------|-------------|----------------------|----------------------|-----------------------|----------------------|
| <b>Client Sample ID</b>                           |            |             | <b>DUP FRONT</b>     | <b>DUP BACK</b>      | <b>SV BLANK FRONT</b> | <b>SV BLANK BACK</b> |
| <b>Sample Matrix</b>                              |            |             | <b>Air</b>           | <b>Air</b>           | <b>Air</b>            | <b>Air</b>           |
| <b>Eurofins Sample No.</b>                        |            |             | <b>S23-Jn0014972</b> | <b>S23-Jn0014973</b> | <b>S23-Jn0014974</b>  | <b>S23-Jn0014975</b> |
| <b>Date Sampled</b>                               |            |             | <b>Jun 05, 2023</b>  | <b>Jun 05, 2023</b>  | <b>Jun 05, 2023</b>   | <b>Jun 05, 2023</b>  |
| <b>Test/Reference</b>                             | <b>LOR</b> | <b>Unit</b> |                      |                      |                       |                      |
| <b>Total Recoverable Hydrocarbons</b>             |            |             |                      |                      |                       |                      |
| TRH C6-C10                                        | 20         | Total ug    | < 20                 | < 20                 | < 20                  | < 20                 |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>          | 20         | Total ug    | < 20                 | < 20                 | < 20                  | < 20                 |
| TRH >C10-C16                                      | 20         | Total ug    | < 20                 | < 20                 | < 20                  | < 20                 |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 20         | Total ug    | < 20                 | < 20                 | < 20                  | < 20                 |

**Sample History**

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description                                                                                       | Testing Site | Extracted    | Holding Time |
|---------------------------------------------------------------------------------------------------|--------------|--------------|--------------|
| Alcohols<br>- Method: LTM-ORG-2260 Determination of Alcohols in Water and Soil by Headspace GC-MS | Melbourne    | Jun 07, 2023 | 14 Days      |
| VOCs in Ambient Air by GC/MS<br>- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS               | Melbourne    | Jun 07, 2023 | 14 Days      |
| Total Recoverable Hydrocarbons<br>- Method: LTM-ORG-2010 TRH C6-C40                               | Melbourne    | Jun 07, 2023 | 7 Days       |



**Company Name:** JBS & G Australia (NSW) P/L  
**Address:** Level 1, 50 Margaret St  
Sydney  
NSW 2000  
  
**Project Name:** CABRAMATTA WATER + SV  
**Project ID:** 65196

**Order No.:**  
**Report #:** 996556  
**Phone:** 02 8245 0300  
**Fax:**

**Received:** Jun 5, 2023 6:50 PM  
**Due:** Jun 12, 2023  
**Priority:** 5 Day  
**Contact Name:** Alison Smith

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail                                  |            |              |               |                     |               | Isopropanol | Polycyclic Aromatic Hydrocarbons | Metals M8 | Hardness Set | VOC AIR-TRH (Total Recoverable Hydrocarbons) | Volatile Organics | VOCs in Ambient Air by GC/MS | Total Recoverable Hydrocarbons | BTEXN and Volatile TRH | Per- and Polyfluoroalkyl Substances (PFASs) | BTEXN and Volatile TRH |
|------------------------------------------------|------------|--------------|---------------|---------------------|---------------|-------------|----------------------------------|-----------|--------------|----------------------------------------------|-------------------|------------------------------|--------------------------------|------------------------|---------------------------------------------|------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |            |              |               |                     |               | X           |                                  |           | X            | X                                            | X                 | X                            | X                              | X                      |                                             | X                      |
| Sydney Laboratory - NATA # 1261 Site # 18217   |            |              |               |                     |               |             | X                                | X         | X            | X                                            | X                 | X                            | X                              | X                      | X                                           | X                      |
| External Laboratory                            |            |              |               |                     |               |             |                                  |           |              |                                              |                   |                              |                                |                        |                                             |                        |
| No                                             | Sample ID  | Sample Date  | Sampling Time | Matrix              | LAB ID        |             |                                  |           |              |                                              |                   |                              |                                |                        |                                             |                        |
| 1                                              | MW01       | Jun 05, 2023 |               | Water               | S23-Jn0014948 |             | X                                | X         | X            |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 2                                              | MW02       | Jun 05, 2023 |               | Water               | S23-Jn0014949 |             | X                                | X         | X            |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 3                                              | MW03       | Jun 05, 2023 |               | Water               | S23-Jn0014950 |             | X                                | X         | X            |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 4                                              | QC01       | Jun 05, 2023 |               | Water               | S23-Jn0014951 |             | X                                | X         |              |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 5                                              | BLANK      | Jun 05, 2023 |               | Water               | S23-Jn0014952 |             |                                  |           |              |                                              |                   |                              |                                |                        | X                                           |                        |
| 6                                              | RINSATE    | Jun 05, 2023 |               | Water               | S23-Jn0014953 |             | X                                | X         |              |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 7                                              | TS         | Jun 05, 2023 |               | Trip Spike (liquid) | S23-Jn0014954 |             |                                  |           |              |                                              |                   |                              |                                |                        |                                             | X                      |
| 8                                              | TB         | Jun 05, 2023 |               | Trip Blank (liquid) | S23-Jn0014955 |             |                                  |           |              |                                              |                   |                              |                                | X                      |                                             |                        |
| 9                                              | SV01 FRONT | Jun 05, 2023 |               | Air                 | S23-Jn0014956 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 10                                             | SV01 BACK  | Jun 05, 2023 |               | Air                 | S23-Jn0014957 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 11                                             | SV02 FRONT | Jun 05, 2023 |               | Air                 | S23-Jn0014958 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |

**Company Name:** JBS & G Australia (NSW) P/L  
**Address:** Level 1, 50 Margaret St  
Sydney  
NSW 2000

**Project Name:** CABRAMATTA WATER + SV  
**Project ID:** 65196

**Order No.:**  
**Report #:** 996556  
**Phone:** 02 8245 0300  
**Fax:**

**Received:** Jun 5, 2023 6:50 PM  
**Due:** Jun 12, 2023  
**Priority:** 5 Day  
**Contact Name:** Alison Smith

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail                                  |            |              |  |     |               | Isopropanol | Polycyclic Aromatic Hydrocarbons | Metals M8 | Hardness Set | VOC AIR-TRH (Total Recoverable Hydrocarbons) | Volatile Organics | VOCs in Ambient Air by GC/MS | Total Recoverable Hydrocarbons | BTEXN and Volatile TRH | Per- and Polyfluoroalkyl Substances (PFASs) | BTEXN and Volatile TRH |
|------------------------------------------------|------------|--------------|--|-----|---------------|-------------|----------------------------------|-----------|--------------|----------------------------------------------|-------------------|------------------------------|--------------------------------|------------------------|---------------------------------------------|------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |            |              |  |     |               | X           |                                  |           | X            | X                                            | X                 | X                            | X                              | X                      |                                             | X                      |
| Sydney Laboratory - NATA # 1261 Site # 18217   |            |              |  |     |               |             | X                                | X         | X            | X                                            | X                 | X                            | X                              | X                      | X                                           | X                      |
| 12                                             | SV02 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014959 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 13                                             | SV03 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014960 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 14                                             | SV03 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014961 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 15                                             | SV04 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014962 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 16                                             | SV04 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014963 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 17                                             | SV05 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014964 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 18                                             | SV05 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014965 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 19                                             | SV06 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014966 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 20                                             | SV06 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014967 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 21                                             | SV07 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014968 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 22                                             | SV07 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014969 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 23                                             | SV08 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014970 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 24                                             | SV08 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014971 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 25                                             | DUP FRONT  | Jun 05, 2023 |  | Air | S23-Jn0014972 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 26                                             | DUP BACK   | Jun 05, 2023 |  | Air | S23-Jn0014973 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |

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| Sample Detail                                  |                |              |  |     |               | Isopropanol | Polycyclic Aromatic Hydrocarbons | Metals M8 | Hardness Set | VOC AIR-TRH (Total Recoverable Hydrocarbons) | Volatile Organics | VOCs in Ambient Air by GC/MS | Total Recoverable Hydrocarbons | BTEXN and Volatile TRH | Per- and Polyfluoroalkyl Substances (PFASs) | BTEXN and Volatile TRH |
|------------------------------------------------|----------------|--------------|--|-----|---------------|-------------|----------------------------------|-----------|--------------|----------------------------------------------|-------------------|------------------------------|--------------------------------|------------------------|---------------------------------------------|------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |                |              |  |     |               | X           |                                  |           | X            | X                                            | X                 | X                            | X                              | X                      |                                             | X                      |
| Sydney Laboratory - NATA # 1261 Site # 18217   |                |              |  |     |               |             | X                                | X         | X            | X                                            | X                 | X                            | X                              | X                      | X                                           | X                      |
| 27                                             | SV BLANK FRONT | Jun 05, 2023 |  | Air | S23-Jn0014974 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 28                                             | SV BLANK BACK  | Jun 05, 2023 |  | Air | S23-Jn0014975 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| Test Counts                                    |                |              |  |     |               | 20          | 5                                | 5         | 3            | 20                                           | 5                 | 20                           | 5                              | 1                      | 6                                           | 1                      |

## Internal Quality Control Review and Glossary

### General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with **blue** colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

### Units

|                                                  |                                           |                                                                          |
|--------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------|
| <b>mg/kg:</b> milligrams per kilogram            | <b>mg/L:</b> milligrams per litre         | <b>µg/L:</b> micrograms per litre                                        |
| <b>ppm:</b> parts per million                    | <b>ppb:</b> parts per billion             | <b>%:</b> Percentage                                                     |
| <b>org/100 mL:</b> Organisms per 100 millilitres | <b>NTU:</b> Nephelometric Turbidity Units | <b>MPN/100 mL:</b> Most Probable Number of organisms per 100 millilitres |
| <b>CFU:</b> Colony forming unit                  |                                           |                                                                          |

### Terms

|                         |                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APHA</b>             | American Public Health Association                                                                                                                                                                                                                                                            |
| <b>COC</b>              | Chain of Custody                                                                                                                                                                                                                                                                              |
| <b>CP</b>               | Client Parent - QC was performed on samples pertaining to this report                                                                                                                                                                                                                         |
| <b>CRM</b>              | Certified Reference Material (ISO17034) - reported as percent recovery.                                                                                                                                                                                                                       |
| <b>Dry</b>              | Where a moisture has been determined on a solid sample the result is expressed on a dry basis.                                                                                                                                                                                                |
| <b>Duplicate</b>        | A second piece of analysis from the same sample and reported in the same units as the result to show comparison.                                                                                                                                                                              |
| <b>LOR</b>              | Limit of Reporting.                                                                                                                                                                                                                                                                           |
| <b>LCS</b>              | Laboratory Control Sample - reported as percent recovery.                                                                                                                                                                                                                                     |
| <b>Method Blank</b>     | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.                                                                                                                                |
| <b>NCP</b>              | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.                                                                                                                            |
| <b>RPD</b>              | Relative Percent Difference between two Duplicate pieces of analysis.                                                                                                                                                                                                                         |
| <b>SPIKE</b>            | Addition of the analyte to the sample and reported as percentage recovery.                                                                                                                                                                                                                    |
| <b>SRA</b>              | Sample Receipt Advice                                                                                                                                                                                                                                                                         |
| <b>Surr - Surrogate</b> | The addition of a like compound to the analyte target and reported as percentage recovery.                                                                                                                                                                                                    |
| <b>TBTO</b>             | Tributyltin oxide ( <i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| <b>TCLP</b>             | Toxicity Characteristic Leaching Procedure                                                                                                                                                                                                                                                    |
| <b>TEQ</b>              | Toxic Equivalency Quotient or Total Equivalence                                                                                                                                                                                                                                               |
| <b>QSM</b>              | US Department of Defense Quality Systems Manual Version 5.4                                                                                                                                                                                                                                   |
| <b>US EPA</b>           | United States Environmental Protection Agency                                                                                                                                                                                                                                                 |
| <b>WA DWER</b>          | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA                                                                                                                                                                                                                 |

### QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

### QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

## Quality Control Results

| Test                                | Units    | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|-------------------------------------|----------|----------|--|--|-------------------|-------------|-----------------|
| <b>Method Blank</b>                 |          |          |  |  |                   |             |                 |
| <b>Alcohols</b>                     |          |          |  |  |                   |             |                 |
| Isopropanol                         | Total ug | < 10     |  |  | 10                | Pass        |                 |
| <b>Method Blank</b>                 |          |          |  |  |                   |             |                 |
| <b>VOCs in Ambient Air by GC/MS</b> |          |          |  |  |                   |             |                 |
| 1.1-Dichloroethane                  | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.1-Dichloroethene                  | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.1-Dichloropropene                 | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.1.1-Trichloroethane               | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.1.1.2-Tetrachloroethane           | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.1.2-Trichloroethane               | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.1.2.2-Tetrachloroethane           | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2-Dibromo-3-chloropropane         | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2-Dibromoethane                   | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2-Dichloroethane                  | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2-Dichloropropane                 | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2.3-Trichloropropane              | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2.4-Trimethylbenzene              | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.3-Dichloropropane                 | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.3.5-Trimethylbenzene              | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 2-Chlorotoluene                     | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 2.2-Dichloropropane                 | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 4-Chlorotoluene                     | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Benzene                             | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Bromochloromethane                  | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Bromodichloromethane                | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Bromoform                           | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Carbon Tetrachloride                | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Chlorobenzene                       | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Chloroform                          | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| cis-1.2-Dichloroethene              | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| cis-1.3-Dichloropropene             | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Dibromochloromethane                | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Dibromomethane                      | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Ethylbenzene                        | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Isopropyl benzene (Cumene)          | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| n-Butylbenzene                      | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| n-Propylbenzene                     | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Naphthalene                         | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| p-Isopropyltoluene                  | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| sec-Butylbenzene                    | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Styrene                             | Total ug | < 5      |  |  | 5                 | Pass        |                 |
| tert-Butylbenzene                   | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Tetrachloroethene                   | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Toluene                             | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| trans-1.3-Dichloropropene           | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Trichloroethene                     | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Trichlorofluoromethane              | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Vinyl chloride                      | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Xylenes - Total*                    | Total ug | < 1.5    |  |  | 1.5               | Pass        |                 |
| 1.2-Dichlorobenzene                 | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.2.3-Trichlorobenzene              | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |



| Test                                  | Units    | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|---------------------------------------|----------|----------|--|--|-------------------|-------------|-----------------|
| 1.2.4-Trichlorobenzene                | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.3-Dichlorobenzene                   | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| 1.4-Dichlorobenzene                   | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| Hexachlorobutadiene                   | Total ug | < 0.5    |  |  | 0.5               | Pass        |                 |
| <b>Method Blank</b>                   |          |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b> |          |          |  |  |                   |             |                 |
| TRH C6-C10                            | Total ug | < 20     |  |  | 20                | Pass        |                 |
| TRH >C10-C16                          | Total ug | < 20     |  |  | 20                | Pass        |                 |
| <b>LCS - % Recovery</b>               |          |          |  |  |                   |             |                 |
| <b>VOCs in Ambient Air by GC/MS</b>   |          |          |  |  |                   |             |                 |
| 1.1-Dichloroethene                    | %        | 70       |  |  | 70-130            | Pass        |                 |
| 1.1-Dichloropropene                   | %        | 96       |  |  | 70-130            | Pass        |                 |
| 1.1.1-Trichloroethane                 | %        | 96       |  |  | 70-130            | Pass        |                 |
| 1.2-Dibromo-3-chloropropane           | %        | 102      |  |  | 75-125            | Pass        |                 |
| 1.2-Dichloroethane                    | %        | 92       |  |  | 70-130            | Pass        |                 |
| Benzene                               | %        | 79       |  |  | 70-130            | Pass        |                 |
| Ethylbenzene                          | %        | 79       |  |  | 70-130            | Pass        |                 |
| Toluene                               | %        | 79       |  |  | 70-130            | Pass        |                 |
| Trichloroethene                       | %        | 91       |  |  | 70-130            | Pass        |                 |
| 1.2-Dichlorobenzene                   | %        | 87       |  |  | 70-130            | Pass        |                 |
| 1.4-Dichlorobenzene                   | %        | 82       |  |  | 70-130            | Pass        |                 |

## Comments

### Sample Integrity

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Custody Seals Intact (if used)                                          | N/A |
| Attempt to Chill was evident                                            | Yes |
| Sample correctly preserved                                              | Yes |
| Appropriate sample containers have been used                            | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime                                     | Yes |
| Some samples have been subcontracted                                    | No  |

### Qualifier Codes/Comments

| Code | Description                                                                                                                                                                                                                                                                               |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N01  | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).                                                                                      |
| N04  | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. |

### Authorised by:

|                |                             |
|----------------|-----------------------------|
| Andrew Black   | Analytical Services Manager |
| Joseph Edouard | Senior Analyst-Organic      |
| Joseph Edouard | Senior Analyst-Volatile     |



**Glenn Jackson**  
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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**JBS & G Australia (NSW) P/L**  
**Level 1, 50 Margaret St**  
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**NSW 2000**



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**Attention:** **Alison Smith**

**Report** **996556-W**  
 Project name **CABRAMATTA WATER + SV**  
 Project ID **65196**  
 Received Date **Jun 05, 2023**

| Client Sample ID                                  |       |      | MW01          | MW02          | MW03          | QC01          |
|---------------------------------------------------|-------|------|---------------|---------------|---------------|---------------|
| Sample Matrix                                     |       |      | Water         | Water         | Water         | Water         |
| Eurofins Sample No.                               |       |      | S23-Jn0014948 | S23-Jn0014949 | S23-Jn0014950 | S23-Jn0014951 |
| Date Sampled                                      |       |      | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  |
| Test/Reference                                    | LOR   | Unit |               |               |               |               |
| <b>Total Recoverable Hydrocarbons</b>             |       |      |               |               |               |               |
| TRH C6-C9                                         | 0.02  | mg/L | < 0.02        | < 0.02        | < 0.02        | < 0.02        |
| TRH C10-C14                                       | 0.05  | mg/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| TRH C15-C28                                       | 0.1   | mg/L | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| TRH C29-C36                                       | 0.1   | mg/L | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| TRH C10-C36 (Total)                               | 0.1   | mg/L | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| TRH C6-C10                                        | 0.02  | mg/L | < 0.02        | < 0.02        | < 0.02        | < 0.02        |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>          | 0.02  | mg/L | < 0.02        | < 0.02        | < 0.02        | < 0.02        |
| TRH >C10-C16                                      | 0.05  | mg/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 0.05  | mg/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| TRH >C16-C34                                      | 0.1   | mg/L | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| TRH >C34-C40                                      | 0.1   | mg/L | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| TRH >C10-C40 (total)*                             | 0.1   | mg/L | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| <b>Volatile Organics</b>                          |       |      |               |               |               |               |
| 1.1-Dichloroethane                                | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.1-Dichloroethene                                | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.1.1-Trichloroethane                             | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.1.1.2-Tetrachloroethane                         | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.1.2-Trichloroethane                             | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.1.2.2-Tetrachloroethane                         | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.2-Dibromoethane                                 | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.2-Dichlorobenzene                               | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.2-Dichloroethane                                | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.2-Dichloropropane                               | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.2.3-Trichloropropane                            | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.2.4-Trimethylbenzene                            | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.3-Dichlorobenzene                               | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.3-Dichloropropane                               | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.3.5-Trimethylbenzene                            | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 1.4-Dichlorobenzene                               | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 2-Butanone (MEK)                                  | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| 2-Propanone (Acetone)                             | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| 4-Chlorotoluene                                   | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 4-Methyl-2-pentanone (MIBK)                       | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| Allyl chloride                                    | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Benzene                                           | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |

| Client Sample ID                                            |       |      | MW01<br>Water | MW02<br>Water | MW03<br>Water | QC01<br>Water |
|-------------------------------------------------------------|-------|------|---------------|---------------|---------------|---------------|
| Sample Matrix                                               |       |      | S23-Jn0014948 | S23-Jn0014949 | S23-Jn0014950 | S23-Jn0014951 |
| Eurofins Sample No.                                         |       |      | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  |
| Date Sampled                                                |       |      |               |               |               |               |
| Test/Reference                                              | LOR   | Unit |               |               |               |               |
| <b>Volatile Organics</b>                                    |       |      |               |               |               |               |
| Bromobenzene                                                | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Bromochloromethane                                          | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Bromodichloromethane                                        | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Bromoform                                                   | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Bromomethane                                                | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| Carbon disulfide                                            | 0.001 | mg/L | < 0.001       | < 0.001       | 0.001         | 0.001         |
| Carbon Tetrachloride                                        | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Chlorobenzene                                               | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Chloroethane                                                | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| Chloroform                                                  | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| Chloromethane                                               | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| cis-1.2-Dichloroethene                                      | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| cis-1.3-Dichloropropene                                     | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Dibromochloromethane                                        | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Dibromomethane                                              | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Dichlorodifluoromethane                                     | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| Ethylbenzene                                                | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Iodomethane                                                 | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Isopropyl benzene (Cumene)                                  | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| m&p-Xylenes                                                 | 0.002 | mg/L | < 0.002       | < 0.002       | < 0.002       | < 0.002       |
| Methylene Chloride                                          | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| o-Xylene                                                    | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Styrene                                                     | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Tetrachloroethene                                           | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Toluene                                                     | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| trans-1.2-Dichloroethene                                    | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| trans-1.3-Dichloropropene                                   | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Trichloroethene                                             | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Trichlorofluoromethane                                      | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| Vinyl chloride                                              | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| Xylenes - Total*                                            | 0.003 | mg/L | < 0.003       | < 0.003       | < 0.003       | < 0.003       |
| Total MAH*                                                  | 0.003 | mg/L | < 0.003       | < 0.003       | < 0.003       | < 0.003       |
| Vic EPA IWRG 621 CHC (Total)*                               | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| Vic EPA IWRG 621 Other CHC (Total)*                         | 0.005 | mg/L | < 0.005       | < 0.005       | < 0.005       | < 0.005       |
| 4-Bromofluorobenzene (surr.)                                | 1     | %    | 107           | 106           | 96            | 96            |
| Toluene-d8 (surr.)                                          | 1     | %    | 96            | 96            | 85            | 86            |
| <b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b> |       |      |               |               |               |               |
| Naphthalene <sup>N02</sup>                                  | 0.01  | mg/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| <b>Polycyclic Aromatic Hydrocarbons</b>                     |       |      |               |               |               |               |
| Acenaphthene                                                | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Acenaphthylene                                              | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Anthracene                                                  | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Benz(a)anthracene                                           | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Benzo(a)pyrene                                              | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Benzo(b&j)fluoranthene <sup>N07</sup>                       | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Benzo(g,h,i)perylene                                        | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Benzo(k)fluoranthene                                        | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Chrysene                                                    | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Dibenz(a,h)anthracene                                       | 0.001 | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |

| Client Sample ID                                    |        |      | MW01          | MW02          | MW03          | QC01          |
|-----------------------------------------------------|--------|------|---------------|---------------|---------------|---------------|
| Sample Matrix                                       |        |      | Water         | Water         | Water         | Water         |
| Eurofins Sample No.                                 |        |      | S23-Jn0014948 | S23-Jn0014949 | S23-Jn0014950 | S23-Jn0014951 |
| Date Sampled                                        |        |      | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  |
| Test/Reference                                      | LOR    | Unit |               |               |               |               |
| <b>Polycyclic Aromatic Hydrocarbons</b>             |        |      |               |               |               |               |
| Fluoranthene                                        | 0.001  | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Fluorene                                            | 0.001  | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Indeno(1.2.3-cd)pyrene                              | 0.001  | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Naphthalene                                         | 0.001  | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Phenanthrene                                        | 0.001  | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Pyrene                                              | 0.001  | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Total PAH*                                          | 0.001  | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| 2-Fluorobiphenyl (surr.)                            | 1      | %    | 60            | 75            | 65            | 74            |
| p-Terphenyl-d14 (surr.)                             | 1      | %    | 91            | 111           | 98            | 102           |
|                                                     |        |      |               |               |               |               |
| Hardness mg equivalent CaCO <sub>3</sub> /L         | 1      | mg/L | 3000          | 2900          | 59            | -             |
| <b>Alkali Metals</b>                                |        |      |               |               |               |               |
| Calcium                                             | 0.5    | mg/L | 43            | 37            | 5.7           | -             |
| Magnesium                                           | 0.5    | mg/L | 690           | 670           | 11            | -             |
| <b>Heavy Metals</b>                                 |        |      |               |               |               |               |
| Arsenic                                             | 0.001  | mg/L | < 0.001       | 0.002         | < 0.001       | 0.003         |
| Cadmium                                             | 0.0002 | mg/L | 0.0006        | 0.0027        | < 0.0002      | < 0.0002      |
| Chromium                                            | 0.001  | mg/L | < 0.001       | 0.001         | < 0.001       | < 0.001       |
| Copper                                              | 0.001  | mg/L | 0.003         | 0.003         | 0.004         | 0.001         |
| Lead                                                | 0.001  | mg/L | 0.001         | 0.002         | 0.005         | < 0.001       |
| Mercury                                             | 0.0001 | mg/L | < 0.0001      | < 0.0001      | < 0.0001      | < 0.0001      |
| Nickel                                              | 0.001  | mg/L | 0.071         | 0.26          | 0.004         | 0.031         |
| Zinc                                                | 0.005  | mg/L | 0.17          | 0.33          | 0.020         | 0.083         |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>      |        |      |               |               |               |               |
| Perfluorobutanoic acid (PFBA) <sup>N11</sup>        | 0.05   | ug/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| Perfluoropentanoic acid (PFPeA) <sup>N11</sup>      | 0.01   | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluorohexanoic acid (PFHxA) <sup>N11</sup>       | 0.01   | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluoroheptanoic acid (PFHpA) <sup>N11</sup>      | 0.01   | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluorooctanoic acid (PFOA) <sup>N11</sup>        | 0.01   | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluorononanoic acid (PFNA) <sup>N11</sup>        | 0.01   | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluorodecanoic acid (PFDA) <sup>N11</sup>        | 0.01   | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluoroundecanoic acid (PFUnDA) <sup>N11</sup>    | 0.01   | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluorododecanoic acid (PFDoDA) <sup>N11</sup>    | 0.01   | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluorotridecanoic acid (PFTeDA) <sup>N15</sup>   | 0.01   | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluorotetradecanoic acid (PFTeDA) <sup>N11</sup> | 0.01   | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| 13C4-PFBA (surr.)                                   | 1      | %    | 88            | 86            | 96            | 92            |
| 13C5-PFPeA (surr.)                                  | 1      | %    | 86            | 86            | 97            | 91            |
| 13C5-PFHxA (surr.)                                  | 1      | %    | 81            | 81            | 96            | 88            |
| 13C4-PFHpA (surr.)                                  | 1      | %    | 73            | 77            | 88            | 86            |
| 13C8-PFOA (surr.)                                   | 1      | %    | 74            | 78            | 92            | 87            |
| 13C5-PFNA (surr.)                                   | 1      | %    | 65            | 67            | 79            | 77            |
| 13C6-PFDA (surr.)                                   | 1      | %    | 63            | 70            | 81            | 78            |
| 13C2-PFUnDA (surr.)                                 | 1      | %    | 61            | 73            | 78            | 77            |
| 13C2-PFDoDA (surr.)                                 | 1      | %    | 69            | 74            | 84            | 79            |
| 13C2-PFTeDA (surr.)                                 | 1      | %    | 66            | 77            | 85            | 88            |



| Client Sample ID                                                            |      |      | MW01<br>Water | MW02<br>Water | MW03<br>Water | QC01<br>Water |
|-----------------------------------------------------------------------------|------|------|---------------|---------------|---------------|---------------|
| Sample Matrix                                                               |      |      | S23-Jn0014948 | S23-Jn0014949 | S23-Jn0014950 | S23-Jn0014951 |
| Eurofins Sample No.                                                         |      |      | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  |
| Date Sampled                                                                |      |      |               |               |               |               |
| Test/Reference                                                              | LOR  | Unit |               |               |               |               |
| <b>Perfluoroalkyl sulfonamido substances</b>                                |      |      |               |               |               |               |
| Perfluorooctane sulfonamide (FOSA) <sup>N11</sup>                           | 0.05 | ug/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) <sup>N11</sup>            | 0.05 | ug/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) <sup>N11</sup>             | 0.05 | ug/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) <sup>N11</sup> | 0.05 | ug/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) <sup>N11</sup>  | 0.05 | ug/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| N-ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) <sup>N11</sup>     | 0.05 | ug/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) <sup>N11</sup>   | 0.05 | ug/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| 13C8-FOSA (surr.)                                                           | 1    | %    | INT           | INT           | INT           | INT           |
| D3-N-MeFOSA (surr.)                                                         | 1    | %    | INT           | INT           | INT           | INT           |
| D5-N-EtFOSA (surr.)                                                         | 1    | %    | INT           | INT           | INT           | INT           |
| D7-N-MeFOSE (surr.)                                                         | 1    | %    | INT           | INT           | INT           | INT           |
| D9-N-EtFOSE (surr.)                                                         | 1    | %    | INT           | INT           | INT           | INT           |
| D5-N-EtFOSAA (surr.)                                                        | 1    | %    | 65            | 74            | 84            | 81            |
| D3-N-MeFOSAA (surr.)                                                        | 1    | %    | 66            | 65            | 78            | 77            |
| <b>Perfluoroalkyl sulfonic acids (PFSA)</b>                                 |      |      |               |               |               |               |
| Perfluorobutanesulfonic acid (PFBS) <sup>N11</sup>                          | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluorononanesulfonic acid (PFNS) <sup>N15</sup>                          | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluoropropanesulfonic acid (PFPrS) <sup>N15</sup>                        | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluoropentanesulfonic acid (PFPeS) <sup>N15</sup>                        | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluorohexanesulfonic acid (PFHxS) <sup>N11</sup>                         | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluoroheptanesulfonic acid (PFHpS) <sup>N15</sup>                        | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluorooctanesulfonic acid (PFOS) <sup>N11</sup>                          | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Perfluorodecanesulfonic acid (PFDS) <sup>N15</sup>                          | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| 13C3-PFBS (surr.)                                                           | 1    | %    | 88            | 86            | 95            | 92            |
| 18O2-PFHxS (surr.)                                                          | 1    | %    | 89            | 84            | 94            | 90            |
| 13C8-PFOS (surr.)                                                           | 1    | %    | 82            | 81            | 88            | 85            |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA)</b>                          |      |      |               |               |               |               |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) <sup>N11</sup>          | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) <sup>N11</sup>           | 0.05 | ug/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) <sup>N11</sup>          | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) <sup>N11</sup>       | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| 13C2-4:2 FTSA (surr.)                                                       | 1    | %    | 68            | 70            | 92            | 87            |
| 13C2-6:2 FTSA (surr.)                                                       | 1    | %    | 68            | 65            | 80            | 70            |
| 13C2-8:2 FTSA (surr.)                                                       | 1    | %    | 67            | 65            | 79            | 78            |
| 13C2-10:2 FTSA (surr.)                                                      | 1    | %    | 66            | 69            | 86            | 79            |
| <b>PFASs Summations</b>                                                     |      |      |               |               |               |               |
| Sum (PFHxS + PFOS)*                                                         | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Sum of US EPA PFAS (PFOS + PFOA)*                                           | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*                                 | 0.01 | ug/L | < 0.01        | < 0.01        | < 0.01        | < 0.01        |
| Sum of WA DWER PFAS (n=10)*                                                 | 0.05 | ug/L | < 0.05        | < 0.05        | < 0.05        | < 0.05        |
| Sum of PFASs (n=30)*                                                        | 0.1  | ug/L | < 0.1         | < 0.1         | < 0.1         | < 0.1         |

| Client Sample ID                                  |       |      | BLANK         | RINSATE       | TS                  | TB                  |
|---------------------------------------------------|-------|------|---------------|---------------|---------------------|---------------------|
| Sample Matrix                                     |       |      | Water         | Water         | Trip Spike (liquid) | Trip Blank (liquid) |
| Eurofins Sample No.                               |       |      | S23-Jn0014952 | S23-Jn0014953 | S23-Jn0014954       | S23-Jn0014955       |
| Date Sampled                                      |       |      | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023        | Jun 05, 2023        |
| Test/Reference                                    | LOR   | Unit |               |               |                     |                     |
| <b>Total Recoverable Hydrocarbons</b>             |       |      |               |               |                     |                     |
| TRH C6-C9                                         | 0.02  | mg/L | -             | < 0.02        | -                   | < 0.02              |
| TRH C10-C14                                       | 0.05  | mg/L | -             | < 0.05        | -                   | -                   |
| TRH C15-C28                                       | 0.1   | mg/L | -             | < 0.1         | -                   | -                   |
| TRH C29-C36                                       | 0.1   | mg/L | -             | < 0.1         | -                   | -                   |
| TRH C10-C36 (Total)                               | 0.1   | mg/L | -             | < 0.1         | -                   | -                   |
| TRH C6-C10                                        | 0.02  | mg/L | -             | < 0.02        | -                   | < 0.02              |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>          | 0.02  | mg/L | -             | < 0.02        | -                   | < 0.02              |
| TRH >C10-C16                                      | 0.05  | mg/L | -             | < 0.05        | -                   | -                   |
| TRH >C10-C16 less Naphthalene (F2) <sup>N01</sup> | 0.05  | mg/L | -             | < 0.05        | -                   | -                   |
| TRH >C16-C34                                      | 0.1   | mg/L | -             | < 0.1         | -                   | -                   |
| TRH >C34-C40                                      | 0.1   | mg/L | -             | < 0.1         | -                   | -                   |
| TRH >C10-C40 (total)*                             | 0.1   | mg/L | -             | < 0.1         | -                   | -                   |
| <b>Volatile Organics</b>                          |       |      |               |               |                     |                     |
| 1.1-Dichloroethane                                | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.1-Dichloroethene                                | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.1.1-Trichloroethane                             | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.1.1.2-Tetrachloroethane                         | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.1.2-Trichloroethane                             | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.1.2.2-Tetrachloroethane                         | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.2-Dibromoethane                                 | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.2-Dichlorobenzene                               | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.2-Dichloroethane                                | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.2-Dichloropropane                               | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.2.3-Trichloropropane                            | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.2.4-Trimethylbenzene                            | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.3-Dichlorobenzene                               | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.3-Dichloropropane                               | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.3.5-Trimethylbenzene                            | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 1.4-Dichlorobenzene                               | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 2-Butanone (MEK)                                  | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| 2-Propanone (Acetone)                             | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| 4-Chlorotoluene                                   | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 4-Methyl-2-pentanone (MIBK)                       | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| Allyl chloride                                    | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Benzene                                           | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Bromobenzene                                      | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Bromochloromethane                                | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Bromodichloromethane                              | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Bromoform                                         | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Bromomethane                                      | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| Carbon disulfide                                  | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Carbon Tetrachloride                              | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Chlorobenzene                                     | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Chloroethane                                      | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| Chloroform                                        | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| Chloromethane                                     | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| cis-1.2-Dichloroethene                            | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| cis-1.3-Dichloropropene                           | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Dibromochloromethane                              | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |

| Client Sample ID                                            |       |      | BLANK         | RINSATE       | TS                  | TB                  |
|-------------------------------------------------------------|-------|------|---------------|---------------|---------------------|---------------------|
| Sample Matrix                                               |       |      | Water         | Water         | Trip Spike (liquid) | Trip Blank (liquid) |
| Eurofins Sample No.                                         |       |      | S23-Jn0014952 | S23-Jn0014953 | S23-Jn0014954       | S23-Jn0014955       |
| Date Sampled                                                |       |      | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023        | Jun 05, 2023        |
| Test/Reference                                              | LOR   | Unit |               |               |                     |                     |
| <b>Volatile Organics</b>                                    |       |      |               |               |                     |                     |
| Dibromomethane                                              | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Dichlorodifluoromethane                                     | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| Ethylbenzene                                                | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Iodomethane                                                 | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Isopropyl benzene (Cumene)                                  | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| m&p-Xylenes                                                 | 0.002 | mg/L | -             | < 0.002       | -                   | -                   |
| Methylene Chloride                                          | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| o-Xylene                                                    | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Styrene                                                     | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Tetrachloroethene                                           | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Toluene                                                     | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| trans-1,2-Dichloroethene                                    | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| trans-1,3-Dichloropropene                                   | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Trichloroethene                                             | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Trichlorofluoromethane                                      | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| Vinyl chloride                                              | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| Xylenes - Total*                                            | 0.003 | mg/L | -             | < 0.003       | -                   | -                   |
| Total MAH*                                                  | 0.003 | mg/L | -             | < 0.003       | -                   | -                   |
| Vic EPA IWRG 621 CHC (Total)*                               | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| Vic EPA IWRG 621 Other CHC (Total)*                         | 0.005 | mg/L | -             | < 0.005       | -                   | -                   |
| 4-Bromofluorobenzene (surr.)                                | 1     | %    | -             | 95            | -                   | -                   |
| Toluene-d8 (surr.)                                          | 1     | %    | -             | 84            | -                   | -                   |
| <b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b> |       |      |               |               |                     |                     |
| Naphthalene <sup>N02</sup>                                  | 0.01  | mg/L | -             | < 0.01        | -                   | -                   |
| <b>Polycyclic Aromatic Hydrocarbons</b>                     |       |      |               |               |                     |                     |
| Acenaphthene                                                | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Acenaphthylene                                              | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Anthracene                                                  | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Benz(a)anthracene                                           | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Benzo(a)pyrene                                              | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Benzo(b&j)fluoranthene <sup>N07</sup>                       | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Benzo(g,h,i)perylene                                        | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Benzo(k)fluoranthene                                        | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Chrysene                                                    | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Dibenz(a,h)anthracene                                       | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Fluoranthene                                                | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Fluorene                                                    | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Indeno(1,2,3-cd)pyrene                                      | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Naphthalene                                                 | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Phenanthrene                                                | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Pyrene                                                      | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| Total PAH*                                                  | 0.001 | mg/L | -             | < 0.001       | -                   | -                   |
| 2-Fluorobiphenyl (surr.)                                    | 1     | %    | -             | 78            | -                   | -                   |
| p-Terphenyl-d14 (surr.)                                     | 1     | %    | -             | 108           | -                   | -                   |
|                                                             |       |      |               |               |                     |                     |
| TRH C6-C10                                                  | 1     | %    | -             | -             | 72                  | -                   |
| Naphthalene <sup>N02</sup>                                  | 0.01  | mg/L | -             | -             | -                   | < 0.01              |

| Client Sample ID                                                            |        |      | BLANK         | RINSATE       | TS                  | TB                  |
|-----------------------------------------------------------------------------|--------|------|---------------|---------------|---------------------|---------------------|
| Sample Matrix                                                               |        |      | Water         | Water         | Trip Spike (liquid) | Trip Blank (liquid) |
| Eurofins Sample No.                                                         |        |      | S23-Jn0014952 | S23-Jn0014953 | S23-Jn0014954       | S23-Jn0014955       |
| Date Sampled                                                                |        |      | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023        | Jun 05, 2023        |
| Test/Reference                                                              | LOR    | Unit |               |               |                     |                     |
| <b>Heavy Metals</b>                                                         |        |      |               |               |                     |                     |
| Arsenic                                                                     | 0.001  | mg/L | -             | < 0.001       | -                   | -                   |
| Cadmium                                                                     | 0.0002 | mg/L | -             | < 0.0002      | -                   | -                   |
| Chromium                                                                    | 0.001  | mg/L | -             | < 0.001       | -                   | -                   |
| Copper                                                                      | 0.001  | mg/L | -             | < 0.001       | -                   | -                   |
| Lead                                                                        | 0.001  | mg/L | -             | < 0.001       | -                   | -                   |
| Mercury                                                                     | 0.0001 | mg/L | -             | < 0.0001      | -                   | -                   |
| Nickel                                                                      | 0.001  | mg/L | -             | < 0.001       | -                   | -                   |
| Zinc                                                                        | 0.005  | mg/L | -             | < 0.005       | -                   | -                   |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>                              |        |      |               |               |                     |                     |
| Perfluorobutanoic acid (PFBA) <sup>N11</sup>                                | 0.05   | ug/L | < 0.05        | < 0.05        | -                   | -                   |
| Perfluoropentanoic acid (PFPeA) <sup>N11</sup>                              | 0.01   | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluorohexanoic acid (PFHxA) <sup>N11</sup>                               | 0.01   | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluoroheptanoic acid (PFHpA) <sup>N11</sup>                              | 0.01   | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluorooctanoic acid (PFOA) <sup>N11</sup>                                | 0.01   | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluorononanoic acid (PFNA) <sup>N11</sup>                                | 0.01   | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluorodecanoic acid (PFDA) <sup>N11</sup>                                | 0.01   | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluoroundecanoic acid (PFUnDA) <sup>N11</sup>                            | 0.01   | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluorododecanoic acid (PFDoDA) <sup>N11</sup>                            | 0.01   | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluorotridecanoic acid (PFTTrDA) <sup>N15</sup>                          | 0.01   | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluorotetradecanoic acid (PFTeDA) <sup>N11</sup>                         | 0.01   | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| 13C4-PFBA (surr.)                                                           | 1      | %    | 98            | 95            | -                   | -                   |
| 13C5-PFPeA (surr.)                                                          | 1      | %    | 97            | 95            | -                   | -                   |
| 13C5-PFHxA (surr.)                                                          | 1      | %    | 94            | 91            | -                   | -                   |
| 13C4-PFHpA (surr.)                                                          | 1      | %    | 95            | 89            | -                   | -                   |
| 13C8-PFOA (surr.)                                                           | 1      | %    | 94            | 90            | -                   | -                   |
| 13C5-PFNA (surr.)                                                           | 1      | %    | 87            | 85            | -                   | -                   |
| 13C6-PFDA (surr.)                                                           | 1      | %    | 84            | 83            | -                   | -                   |
| 13C2-PFUnDA (surr.)                                                         | 1      | %    | 83            | 82            | -                   | -                   |
| 13C2-PFDoDA (surr.)                                                         | 1      | %    | 84            | 88            | -                   | -                   |
| 13C2-PFTeDA (surr.)                                                         | 1      | %    | 82            | 87            | -                   | -                   |
| <b>Perfluoroalkyl sulfonamido substances</b>                                |        |      |               |               |                     |                     |
| Perfluorooctane sulfonamide (FOSA) <sup>N11</sup>                           | 0.05   | ug/L | < 0.05        | < 0.05        | -                   | -                   |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) <sup>N11</sup>            | 0.05   | ug/L | < 0.05        | < 0.05        | -                   | -                   |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) <sup>N11</sup>             | 0.05   | ug/L | < 0.05        | < 0.05        | -                   | -                   |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) <sup>N11</sup> | 0.05   | ug/L | < 0.05        | < 0.05        | -                   | -                   |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) <sup>N11</sup>  | 0.05   | ug/L | < 0.05        | < 0.05        | -                   | -                   |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) <sup>N11</sup>    | 0.05   | ug/L | < 0.05        | < 0.05        | -                   | -                   |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) <sup>N11</sup>   | 0.05   | ug/L | < 0.05        | < 0.05        | -                   | -                   |
| 13C8-FOSA (surr.)                                                           | 1      | %    | 82            | 87            | -                   | -                   |
| D3-N-MeFOSA (surr.)                                                         | 1      | %    | 23            | 29            | -                   | -                   |
| D5-N-EtFOSA (surr.)                                                         | 1      | %    | 12            | 20            | -                   | -                   |
| D7-N-MeFOSE (surr.)                                                         | 1      | %    | INT           | INT           | -                   | -                   |
| D9-N-EtFOSE (surr.)                                                         | 1      | %    | INT           | INT           | -                   | -                   |
| D5-N-EtFOSAA (surr.)                                                        | 1      | %    | 86            | 88            | -                   | -                   |
| D3-N-MeFOSAA (surr.)                                                        | 1      | %    | 80            | 78            | -                   | -                   |

| Client Sample ID                                                      |       |      | BLANK         | RINSATE       | TS                  | TB                  |
|-----------------------------------------------------------------------|-------|------|---------------|---------------|---------------------|---------------------|
| Sample Matrix                                                         |       |      | Water         | Water         | Trip Spike (liquid) | Trip Blank (liquid) |
| Eurofins Sample No.                                                   |       |      | S23-Jn0014952 | S23-Jn0014953 | S23-Jn0014954       | S23-Jn0014955       |
| Date Sampled                                                          |       |      | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023        | Jun 05, 2023        |
| Test/Reference                                                        | LOR   | Unit |               |               |                     |                     |
| <b>Perfluoroalkyl sulfonic acids (PFASs)</b>                          |       |      |               |               |                     |                     |
| Perfluorobutanesulfonic acid (PFBS) <sup>N11</sup>                    | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluorononanesulfonic acid (PFNS) <sup>N15</sup>                    | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluoropropanesulfonic acid (PFPrS) <sup>N15</sup>                  | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluoropentanesulfonic acid (PFPeS) <sup>N15</sup>                  | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluorohexanesulfonic acid (PFHxS) <sup>N11</sup>                   | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluoroheptanesulfonic acid (PFHpS) <sup>N15</sup>                  | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluorooctanesulfonic acid (PFOS) <sup>N11</sup>                    | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Perfluorodecanesulfonic acid (PFDS) <sup>N15</sup>                    | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| 13C3-PFBS (surr.)                                                     | 1     | %    | 91            | 90            | -                   | -                   |
| 18O2-PFHxS (surr.)                                                    | 1     | %    | 93            | 93            | -                   | -                   |
| 13C8-PFOS (surr.)                                                     | 1     | %    | 87            | 85            | -                   | -                   |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA)</b>                    |       |      |               |               |                     |                     |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) <sup>N11</sup>    | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) <sup>N11</sup>     | 0.05  | ug/L | < 0.05        | < 0.05        | -                   | -                   |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) <sup>N11</sup>    | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) <sup>N11</sup> | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| 13C2-4:2 FTSA (surr.)                                                 | 1     | %    | 85            | 86            | -                   | -                   |
| 13C2-6:2 FTSA (surr.)                                                 | 1     | %    | 75            | 75            | -                   | -                   |
| 13C2-8:2 FTSA (surr.)                                                 | 1     | %    | 77            | 85            | -                   | -                   |
| 13C2-10:2 FTSA (surr.)                                                | 1     | %    | 79            | 78            | -                   | -                   |
| <b>PFASs Summations</b>                                               |       |      |               |               |                     |                     |
| Sum (PFHxS + PFOS)*                                                   | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Sum of US EPA PFAS (PFOS + PFOA)*                                     | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*                           | 0.01  | ug/L | < 0.01        | < 0.01        | -                   | -                   |
| Sum of WA DWER PFAS (n=10)*                                           | 0.05  | ug/L | < 0.05        | < 0.05        | -                   | -                   |
| Sum of PFASs (n=30)*                                                  | 0.1   | ug/L | < 0.1         | < 0.1         | -                   | -                   |
| <b>Total Recoverable Hydrocarbons</b>                                 |       |      |               |               |                     |                     |
| Naphthalene                                                           | 1     | %    | -             | -             | 91                  | -                   |
| TRH C6-C9                                                             | 1     | %    | -             | -             | 72                  | -                   |
| <b>BTEX</b>                                                           |       |      |               |               |                     |                     |
| Benzene                                                               | 1     | %    | -             | -             | 110                 | -                   |
| Ethylbenzene                                                          | 1     | %    | -             | -             | 100                 | -                   |
| m&p-Xylenes                                                           | 1     | %    | -             | -             | 100                 | -                   |
| o-Xylene                                                              | 1     | %    | -             | -             | 95                  | -                   |
| Toluene                                                               | 1     | %    | -             | -             | 90                  | -                   |
| Xylenes - Total                                                       | 1     | %    | -             | -             | 97                  | -                   |
| 4-Bromofluorobenzene (surr.)                                          | 1     | %    | -             | -             | 91                  | -                   |
| <b>BTEX</b>                                                           |       |      |               |               |                     |                     |
| Benzene                                                               | 0.001 | mg/L | -             | -             | -                   | < 0.001             |
| Toluene                                                               | 0.001 | mg/L | -             | -             | -                   | < 0.001             |
| Ethylbenzene                                                          | 0.001 | mg/L | -             | -             | -                   | < 0.001             |
| m&p-Xylenes                                                           | 0.002 | mg/L | -             | -             | -                   | < 0.002             |
| o-Xylene                                                              | 0.001 | mg/L | -             | -             | -                   | < 0.001             |
| Xylenes - Total*                                                      | 0.003 | mg/L | -             | -             | -                   | < 0.003             |
| 4-Bromofluorobenzene (surr.)                                          | 1     | %    | -             | -             | -                   | 85                  |



## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description                                                            | Testing Site | Extracted    | Holding Time |
|------------------------------------------------------------------------|--------------|--------------|--------------|
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions                   | Sydney       | Jun 08, 2023 | 7 Days       |
| - Method: LTM-ORG-2010 TRH C6-C40                                      |              |              |              |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions                   | Sydney       | Jun 08, 2023 | 7 Days       |
| - Method: LTM-ORG-2010 TRH C6-C40                                      |              |              |              |
| Total Recoverable Hydrocarbons                                         | Sydney       | Jun 07, 2023 | 7 Days       |
| - Method: LTM-ORG-2010 TRH C6-C40                                      |              |              |              |
| BTEX                                                                   | Sydney       | Jun 07, 2023 | 14 Days      |
| - Method: LTM-ORG-2010 BTEX and Volatile TRH                           |              |              |              |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions                   | Sydney       | Jun 08, 2023 | 7 Days       |
| - Method: LTM-ORG-2010 TRH C6-C40                                      |              |              |              |
| Volatile Organics                                                      | Sydney       | Jun 07, 2023 | 7 Days       |
| - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices |              |              |              |
| Polycyclic Aromatic Hydrocarbons                                       | Sydney       | Jun 07, 2023 | 7 Days       |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water               |              |              |              |
| Metals M8                                                              | Sydney       | Jun 07, 2023 | 28 Days      |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS   |              |              |              |
| Hardness Set                                                           |              |              |              |
| Hardness mg equivalent CaCO <sub>3</sub> /L                            | Sydney       | Jun 08, 2023 | 28 Days      |
| - Method: E020.1 Hardness in water                                     |              |              |              |
| Alkali Metals                                                          | Sydney       | Jun 08, 2023 | 180 Days     |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS   |              |              |              |
| Per- and Polyfluoroalkyl Substances (PFASs)                            |              |              |              |
| Perfluoroalkyl carboxylic acids (PFCAs)                                | Sydney       | Jun 08, 2023 | 28 Days      |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| Perfluoroalkyl sulfonamido substances                                  | Sydney       | Jun 08, 2023 | 28 Days      |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| Perfluoroalkyl sulfonic acids (PFSAAs)                                 | Sydney       | Jun 08, 2023 | 28 Days      |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)                           | Sydney       | Jun 08, 2023 | 28 Days      |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |
| PFASs Summations                                                       | Sydney       | Jun 07, 2023 |              |
| - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)      |              |              |              |

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**Address:** Level 1, 50 Margaret St  
Sydney  
NSW 2000  
  
**Project Name:** CABRAMATTA WATER + SV  
**Project ID:** 65196

**Order No.:**  
**Report #:** 996556  
**Phone:** 02 8245 0300  
**Fax:**

**Received:** Jun 5, 2023 6:50 PM  
**Due:** Jun 12, 2023  
**Priority:** 5 Day  
**Contact Name:** Alison Smith

Eurofins Analytical Services Manager : Andrew Black

| Sample Detail                                  |            |              |               |                     |               | Isopropanol | Polycyclic Aromatic Hydrocarbons | Metals M8 | Hardness Set | VOC AIR-TRH (Total Recoverable Hydrocarbons) | Volatile Organics | VOCs in Ambient Air by GC/MS | Total Recoverable Hydrocarbons | BTEXN and Volatile TRH | Per- and Polyfluoroalkyl Substances (PFASs) | BTEXN and Volatile TRH |
|------------------------------------------------|------------|--------------|---------------|---------------------|---------------|-------------|----------------------------------|-----------|--------------|----------------------------------------------|-------------------|------------------------------|--------------------------------|------------------------|---------------------------------------------|------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |            |              |               |                     |               | X           |                                  |           | X            | X                                            | X                 | X                            | X                              | X                      |                                             | X                      |
| Sydney Laboratory - NATA # 1261 Site # 18217   |            |              |               |                     |               |             | X                                | X         | X            | X                                            | X                 | X                            | X                              | X                      | X                                           | X                      |
| External Laboratory                            |            |              |               |                     |               |             |                                  |           |              |                                              |                   |                              |                                |                        |                                             |                        |
| No                                             | Sample ID  | Sample Date  | Sampling Time | Matrix              | LAB ID        |             |                                  |           |              |                                              |                   |                              |                                |                        |                                             |                        |
| 1                                              | MW01       | Jun 05, 2023 |               | Water               | S23-Jn0014948 |             | X                                | X         | X            |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 2                                              | MW02       | Jun 05, 2023 |               | Water               | S23-Jn0014949 |             | X                                | X         | X            |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 3                                              | MW03       | Jun 05, 2023 |               | Water               | S23-Jn0014950 |             | X                                | X         | X            |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 4                                              | QC01       | Jun 05, 2023 |               | Water               | S23-Jn0014951 |             | X                                | X         |              |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 5                                              | BLANK      | Jun 05, 2023 |               | Water               | S23-Jn0014952 |             |                                  |           |              |                                              |                   |                              |                                |                        | X                                           |                        |
| 6                                              | RINSATE    | Jun 05, 2023 |               | Water               | S23-Jn0014953 |             | X                                | X         |              |                                              | X                 |                              | X                              |                        | X                                           |                        |
| 7                                              | TS         | Jun 05, 2023 |               | Trip Spike (liquid) | S23-Jn0014954 |             |                                  |           |              |                                              |                   |                              |                                |                        |                                             | X                      |
| 8                                              | TB         | Jun 05, 2023 |               | Trip Blank (liquid) | S23-Jn0014955 |             |                                  |           |              |                                              |                   |                              |                                | X                      |                                             |                        |
| 9                                              | SV01 FRONT | Jun 05, 2023 |               | Air                 | S23-Jn0014956 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 10                                             | SV01 BACK  | Jun 05, 2023 |               | Air                 | S23-Jn0014957 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 11                                             | SV02 FRONT | Jun 05, 2023 |               | Air                 | S23-Jn0014958 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |

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|------------------------------------------------|------------|--------------|--|-----|---------------|-------------|----------------------------------|-----------|--------------|----------------------------------------------|-------------------|------------------------------|--------------------------------|------------------------|---------------------------------------------|------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |            |              |  |     |               | X           |                                  |           | X            | X                                            | X                 | X                            | X                              | X                      |                                             | X                      |
| Sydney Laboratory - NATA # 1261 Site # 18217   |            |              |  |     |               |             | X                                | X         | X            | X                                            | X                 | X                            | X                              | X                      | X                                           | X                      |
| 12                                             | SV02 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014959 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 13                                             | SV03 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014960 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 14                                             | SV03 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014961 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 15                                             | SV04 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014962 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 16                                             | SV04 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014963 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 17                                             | SV05 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014964 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 18                                             | SV05 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014965 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 19                                             | SV06 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014966 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 20                                             | SV06 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014967 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 21                                             | SV07 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014968 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 22                                             | SV07 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014969 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 23                                             | SV08 FRONT | Jun 05, 2023 |  | Air | S23-Jn0014970 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 24                                             | SV08 BACK  | Jun 05, 2023 |  | Air | S23-Jn0014971 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 25                                             | DUP FRONT  | Jun 05, 2023 |  | Air | S23-Jn0014972 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 26                                             | DUP BACK   | Jun 05, 2023 |  | Air | S23-Jn0014973 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |

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|------------------------------------------------|----------------|--------------|--|-----|---------------|-------------|----------------------------------|-----------|--------------|----------------------------------------------|-------------------|------------------------------|--------------------------------|------------------------|---------------------------------------------|------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 |                |              |  |     |               | X           |                                  |           | X            | X                                            | X                 | X                            | X                              | X                      |                                             | X                      |
| Sydney Laboratory - NATA # 1261 Site # 18217   |                |              |  |     |               |             | X                                | X         | X            | X                                            | X                 | X                            | X                              | X                      | X                                           | X                      |
| 27                                             | SV BLANK FRONT | Jun 05, 2023 |  | Air | S23-Jn0014974 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| 28                                             | SV BLANK BACK  | Jun 05, 2023 |  | Air | S23-Jn0014975 | X           |                                  |           |              | X                                            |                   | X                            |                                |                        |                                             |                        |
| Test Counts                                    |                |              |  |     |               | 20          | 5                                | 5         | 3            | 20                                           | 5                 | 20                           | 5                              | 1                      | 6                                           | 1                      |

## Internal Quality Control Review and Glossary

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

### Units

|                                                  |                                           |                                                                          |
|--------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------|
| <b>mg/kg:</b> milligrams per kilogram            | <b>mg/L:</b> milligrams per litre         | <b>µg/L:</b> micrograms per litre                                        |
| <b>ppm:</b> parts per million                    | <b>ppb:</b> parts per billion             | <b>%:</b> Percentage                                                     |
| <b>org/100 mL:</b> Organisms per 100 millilitres | <b>NTU:</b> Nephelometric Turbidity Units | <b>MPN/100 mL:</b> Most Probable Number of organisms per 100 millilitres |
| <b>CFU:</b> Colony forming unit                  |                                           |                                                                          |

### Terms

|                         |                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APHA</b>             | American Public Health Association                                                                                                                                                                                                                                                            |
| <b>COC</b>              | Chain of Custody                                                                                                                                                                                                                                                                              |
| <b>CP</b>               | Client Parent - QC was performed on samples pertaining to this report                                                                                                                                                                                                                         |
| <b>CRM</b>              | Certified Reference Material (ISO17034) - reported as percent recovery.                                                                                                                                                                                                                       |
| <b>Dry</b>              | Where a moisture has been determined on a solid sample the result is expressed on a dry basis.                                                                                                                                                                                                |
| <b>Duplicate</b>        | A second piece of analysis from the same sample and reported in the same units as the result to show comparison.                                                                                                                                                                              |
| <b>LOR</b>              | Limit of Reporting.                                                                                                                                                                                                                                                                           |
| <b>LCS</b>              | Laboratory Control Sample - reported as percent recovery.                                                                                                                                                                                                                                     |
| <b>Method Blank</b>     | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.                                                                                                                                |
| <b>NCP</b>              | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.                                                                                                                            |
| <b>RPD</b>              | Relative Percent Difference between two Duplicate pieces of analysis.                                                                                                                                                                                                                         |
| <b>SPIKE</b>            | Addition of the analyte to the sample and reported as percentage recovery.                                                                                                                                                                                                                    |
| <b>SRA</b>              | Sample Receipt Advice                                                                                                                                                                                                                                                                         |
| <b>Surr - Surrogate</b> | The addition of a like compound to the analyte target and reported as percentage recovery.                                                                                                                                                                                                    |
| <b>TBTO</b>             | Tributyltin oxide ( <i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| <b>TCLP</b>             | Toxicity Characteristic Leaching Procedure                                                                                                                                                                                                                                                    |
| <b>TEQ</b>              | Toxic Equivalency Quotient or Total Equivalence                                                                                                                                                                                                                                               |
| <b>QSM</b>              | US Department of Defense Quality Systems Manual Version 5.4                                                                                                                                                                                                                                   |
| <b>US EPA</b>           | United States Environmental Protection Agency                                                                                                                                                                                                                                                 |
| <b>WA DWER</b>          | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA                                                                                                                                                                                                                 |

### QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

### QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.



## Quality Control Results

| Test                                  | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|---------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| <b>Method Blank</b>                   |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b> |       |          |  |  |                   |             |                 |
| TRH C10-C14                           | mg/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| TRH C15-C28                           | mg/L  | < 0.1    |  |  | 0.1               | Pass        |                 |
| TRH C29-C36                           | mg/L  | < 0.1    |  |  | 0.1               | Pass        |                 |
| TRH >C10-C16                          | mg/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| TRH >C16-C34                          | mg/L  | < 0.1    |  |  | 0.1               | Pass        |                 |
| TRH >C34-C40                          | mg/L  | 0.1      |  |  | 0.1               | Pass        |                 |
| <b>Method Blank</b>                   |       |          |  |  |                   |             |                 |
| <b>Volatile Organics</b>              |       |          |  |  |                   |             |                 |
| 1.1-Dichloroethane                    | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.1-Dichloroethene                    | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.1.1-Trichloroethane                 | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.1.1.2-Tetrachloroethane             | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.1.2-Trichloroethane                 | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.1.2.2-Tetrachloroethane             | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.2-Dibromoethane                     | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.2-Dichlorobenzene                   | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.2-Dichloroethane                    | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.2-Dichloropropane                   | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.2.3-Trichloropropane                | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.2.4-Trimethylbenzene                | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.3-Dichlorobenzene                   | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.3-Dichloropropane                   | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.3.5-Trimethylbenzene                | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 1.4-Dichlorobenzene                   | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 2-Butanone (MEK)                      | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| 2-Propanone (Acetone)                 | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| 4-Chlorotoluene                       | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| 4-Methyl-2-pentanone (MIBK)           | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Allyl chloride                        | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Bromobenzene                          | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Bromochloromethane                    | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Bromodichloromethane                  | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Bromoform                             | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Bromomethane                          | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Carbon disulfide                      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Carbon Tetrachloride                  | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Chlorobenzene                         | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Chloroethane                          | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Chloroform                            | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Chloromethane                         | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| cis-1.2-Dichloroethene                | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| cis-1.3-Dichloropropene               | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Dibromochloromethane                  | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Dibromomethane                        | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Dichlorodifluoromethane               | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Iodomethane                           | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Isopropyl benzene (Cumene)            | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Methylene Chloride                    | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Styrene                               | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Tetrachloroethene                     | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |

| Test                                              | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|---------------------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| trans-1,2-Dichloroethene                          | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| trans-1,3-Dichloropropene                         | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Trichloroethene                                   | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Trichlorofluoromethane                            | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| Vinyl chloride                                    | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| <b>Method Blank</b>                               |       |          |  |  |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b>           |       |          |  |  |                   |             |                 |
| Acenaphthene                                      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Acenaphthylene                                    | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Anthracene                                        | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Benz(a)anthracene                                 | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Benzo(a)pyrene                                    | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Benzo(b&j)fluoranthene                            | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Benzo(g,h,i)perylene                              | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Benzo(k)fluoranthene                              | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Chrysene                                          | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Dibenz(a,h)anthracene                             | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Fluoranthene                                      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Fluorene                                          | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Indeno(1,2,3-cd)pyrene                            | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Naphthalene                                       | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Phenanthrene                                      | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Pyrene                                            | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| <b>Method Blank</b>                               |       |          |  |  |                   |             |                 |
| <b>Alkali Metals</b>                              |       |          |  |  |                   |             |                 |
| Calcium                                           | mg/L  | < 0.5    |  |  | 0.5               | Pass        |                 |
| Magnesium                                         | mg/L  | < 0.5    |  |  | 0.5               | Pass        |                 |
| <b>Method Blank</b>                               |       |          |  |  |                   |             |                 |
| <b>Heavy Metals</b>                               |       |          |  |  |                   |             |                 |
| Arsenic                                           | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Cadmium                                           | mg/L  | < 0.0002 |  |  | 0.0002            | Pass        |                 |
| Chromium                                          | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Copper                                            | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Lead                                              | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Mercury                                           | mg/L  | < 0.0001 |  |  | 0.0001            | Pass        |                 |
| Nickel                                            | mg/L  | < 0.001  |  |  | 0.001             | Pass        |                 |
| Zinc                                              | mg/L  | < 0.005  |  |  | 0.005             | Pass        |                 |
| <b>Method Blank</b>                               |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>    |       |          |  |  |                   |             |                 |
| Perfluorobutanoic acid (PFBA)                     | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| Perfluoropentanoic acid (PFPeA)                   | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorohexanoic acid (PFHxA)                    | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluoroheptanoic acid (PFHpA)                   | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorooctanoic acid (PFOA)                     | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorononanoic acid (PFNA)                     | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorodecanoic acid (PFDA)                     | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluoroundecanoic acid (PFUnDA)                 | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorododecanoic acid (PFDoDA)                 | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorotridecanoic acid (PFTTrDA)               | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorotetradecanoic acid (PFTeDA)              | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| <b>Method Blank</b>                               |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonamido substances</b>      |       |          |  |  |                   |             |                 |
| Perfluorooctane sulfonamide (FOSA)                | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |

| Test                                                         | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)             | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)  | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)    | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)   | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonic acids (PFSA's)</b>                |       |          |  |  |                   |             |                 |
| Perfluorobutanesulfonic acid (PFBS)                          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorononanesulfonic acid (PFNS)                          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluoropropanesulfonic acid (PFPrS)                        | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluoropentanesulfonic acid (PFPeS)                        | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorohexanesulfonic acid (PFHxS)                         | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluoroheptanesulfonic acid (PFHpS)                        | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorooctanesulfonic acid (PFOS)                          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| Perfluorodecanesulfonic acid (PFDS)                          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| <b>Method Blank</b>                                          |       |          |  |  |                   |             |                 |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)</b>         |       |          |  |  |                   |             |                 |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)           | ug/L  | < 0.05   |  |  | 0.05              | Pass        |                 |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)          | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)       | ug/L  | < 0.01   |  |  | 0.01              | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b>                        |       |          |  |  |                   |             |                 |
| TRH C10-C14                                                  | %     | 107      |  |  | 70-130            | Pass        |                 |
| TRH >C10-C16                                                 | %     | 109      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>Volatile Organics</b>                                     |       |          |  |  |                   |             |                 |
| 1.1-Dichloroethene                                           | %     | 117      |  |  | 70-130            | Pass        |                 |
| 1.1.1-Trichloroethane                                        | %     | 117      |  |  | 70-130            | Pass        |                 |
| 1.2-Dichlorobenzene                                          | %     | 128      |  |  | 70-130            | Pass        |                 |
| 1.2-Dichloroethane                                           | %     | 118      |  |  | 70-130            | Pass        |                 |
| Trichloroethene                                              | %     | 119      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b>                      |       |          |  |  |                   |             |                 |
| Acenaphthene                                                 | %     | 91       |  |  | 70-130            | Pass        |                 |
| Acenaphthylene                                               | %     | 99       |  |  | 70-130            | Pass        |                 |
| Anthracene                                                   | %     | 100      |  |  | 70-130            | Pass        |                 |
| Benz(a)anthracene                                            | %     | 101      |  |  | 70-130            | Pass        |                 |
| Benzo(a)pyrene                                               | %     | 102      |  |  | 70-130            | Pass        |                 |
| Benzo(b&j)fluoranthene                                       | %     | 107      |  |  | 70-130            | Pass        |                 |
| Benzo(g,h,i)perylene                                         | %     | 93       |  |  | 70-130            | Pass        |                 |
| Benzo(k)fluoranthene                                         | %     | 107      |  |  | 70-130            | Pass        |                 |
| Chrysene                                                     | %     | 107      |  |  | 70-130            | Pass        |                 |
| Dibenz(a,h)anthracene                                        | %     | 101      |  |  | 70-130            | Pass        |                 |
| Fluoranthene                                                 | %     | 105      |  |  | 70-130            | Pass        |                 |
| Fluorene                                                     | %     | 103      |  |  | 70-130            | Pass        |                 |
| Indeno(1.2.3-cd)pyrene                                       | %     | 105      |  |  | 70-130            | Pass        |                 |
| Naphthalene                                                  | %     | 71       |  |  | 70-130            | Pass        |                 |
| Phenanthrene                                                 | %     | 110      |  |  | 70-130            | Pass        |                 |
| Pyrene                                                       | %     | 114      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                                      |       |          |  |  |                   |             |                 |
| <b>Alkali Metals</b>                                         |       |          |  |  |                   |             |                 |
| Calcium                                                      | %     | 95       |  |  | 80-120            | Pass        |                 |
| Magnesium                                                    | %     | 116      |  |  | 80-120            | Pass        |                 |

| Test                                                         |               |           | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------------------------------------|---------------|-----------|-------|----------|--|--|-------------------|-------------|-----------------|
| LCS - % Recovery                                             |               |           |       |          |  |  |                   |             |                 |
| Heavy Metals                                                 |               |           |       |          |  |  |                   |             |                 |
| Arsenic                                                      |               | %         | 94    |          |  |  | 80-120            | Pass        |                 |
| Cadmium                                                      |               | %         | 94    |          |  |  | 80-120            | Pass        |                 |
| Chromium                                                     |               | %         | 88    |          |  |  | 80-120            | Pass        |                 |
| Copper                                                       |               | %         | 86    |          |  |  | 80-120            | Pass        |                 |
| Lead                                                         |               | %         | 94    |          |  |  | 80-120            | Pass        |                 |
| Mercury                                                      |               | %         | 99    |          |  |  | 80-120            | Pass        |                 |
| Nickel                                                       |               | %         | 88    |          |  |  | 80-120            | Pass        |                 |
| Zinc                                                         |               | %         | 90    |          |  |  | 80-120            | Pass        |                 |
| LCS - % Recovery                                             |               |           |       |          |  |  |                   |             |                 |
| Perfluoroalkyl carboxylic acids (PFCAs)                      |               |           |       |          |  |  |                   |             |                 |
| Perfluorobutanoic acid (PFBA)                                |               | %         | 91    |          |  |  | 50-150            | Pass        |                 |
| Perfluoropentanoic acid (PFPeA)                              |               | %         | 92    |          |  |  | 50-150            | Pass        |                 |
| Perfluorohexanoic acid (PFHxA)                               |               | %         | 94    |          |  |  | 50-150            | Pass        |                 |
| Perfluoroheptanoic acid (PFHpA)                              |               | %         | 91    |          |  |  | 50-150            | Pass        |                 |
| Perfluorooctanoic acid (PFOA)                                |               | %         | 97    |          |  |  | 50-150            | Pass        |                 |
| Perfluorononanoic acid (PFNA)                                |               | %         | 91    |          |  |  | 50-150            | Pass        |                 |
| Perfluorodecanoic acid (PFDA)                                |               | %         | 94    |          |  |  | 50-150            | Pass        |                 |
| Perfluoroundecanoic acid (PFUnDA)                            |               | %         | 97    |          |  |  | 50-150            | Pass        |                 |
| Perfluorododecanoic acid (PFDoDA)                            |               | %         | 99    |          |  |  | 50-150            | Pass        |                 |
| Perfluorotetradecanoic acid (PFTeDA)                         |               | %         | 96    |          |  |  | 50-150            | Pass        |                 |
| LCS - % Recovery                                             |               |           |       |          |  |  |                   |             |                 |
| Perfluoroalkyl sulfonamido substances                        |               |           |       |          |  |  |                   |             |                 |
| Perfluorooctane sulfonamide (FOSA)                           |               | %         | 90    |          |  |  | 50-150            | Pass        |                 |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)            |               | %         | 110   |          |  |  | 50-150            | Pass        |                 |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)             |               | %         | 106   |          |  |  | 50-150            | Pass        |                 |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) |               | %         | 115   |          |  |  | 50-150            | Pass        |                 |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)  |               | %         | 104   |          |  |  | 50-150            | Pass        |                 |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)    |               | %         | 87    |          |  |  | 50-150            | Pass        |                 |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)   |               | %         | 91    |          |  |  | 50-150            | Pass        |                 |
| LCS - % Recovery                                             |               |           |       |          |  |  |                   |             |                 |
| Perfluoroalkyl sulfonic acids (PFSAs)                        |               |           |       |          |  |  |                   |             |                 |
| Perfluorobutanesulfonic acid (PFBS)                          |               | %         | 91    |          |  |  | 50-150            | Pass        |                 |
| Perfluorononanesulfonic acid (PFNS)                          |               | %         | 91    |          |  |  | 50-150            | Pass        |                 |
| Perfluoropropanesulfonic acid (PFPrS)                        |               | %         | 88    |          |  |  | 50-150            | Pass        |                 |
| Perfluoropentanesulfonic acid (PFPeS)                        |               | %         | 81    |          |  |  | 50-150            | Pass        |                 |
| Perfluorohexanesulfonic acid (PFHxS)                         |               | %         | 89    |          |  |  | 50-150            | Pass        |                 |
| Perfluoroheptanesulfonic acid (PFHpS)                        |               | %         | 81    |          |  |  | 50-150            | Pass        |                 |
| Perfluorooctanesulfonic acid (PFOS)                          |               | %         | 93    |          |  |  | 50-150            | Pass        |                 |
| LCS - % Recovery                                             |               |           |       |          |  |  |                   |             |                 |
| n:2 Fluorotelomer sulfonic acids (n:2 FTSA)                  |               |           |       |          |  |  |                   |             |                 |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)          |               | %         | 97    |          |  |  | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)           |               | %         | 101   |          |  |  | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)          |               | %         | 97    |          |  |  | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)       |               | %         | 86    |          |  |  | 50-150            | Pass        |                 |
| Test                                                         | Lab Sample ID | QA Source | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike - % Recovery                                           |               |           |       |          |  |  |                   |             |                 |
| Total Recoverable Hydrocarbons                               |               |           |       | Result 1 |  |  |                   |             |                 |
| TRH C10-C14                                                  | N23-Jn0012577 | NCP       | %     | 126      |  |  | 70-130            | Pass        |                 |
| TRH >C10-C16                                                 | N23-Jn0012577 | NCP       | %     | 129      |  |  | 70-130            | Pass        |                 |
| Spike - % Recovery                                           |               |           |       |          |  |  |                   |             |                 |
| Alkali Metals                                                |               |           |       | Result 1 |  |  |                   |             |                 |

| Test                                                         | Lab Sample ID | QA Source | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------------------------------------|---------------|-----------|-------|----------|--|--|-------------------|-------------|-----------------|
| Calcium                                                      | B23-Jn0010375 | NCP       | %     | 85       |  |  | 75-125            | Pass        |                 |
| <b>Spike - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>Heavy Metals</b>                                          |               |           |       | Result 1 |  |  |                   |             |                 |
| Arsenic                                                      | B23-Jn0011545 | NCP       | %     | 90       |  |  | 75-125            | Pass        |                 |
| Cadmium                                                      | B23-Jn0010375 | NCP       | %     | 96       |  |  | 75-125            | Pass        |                 |
| Chromium                                                     | B23-Jn0010375 | NCP       | %     | 88       |  |  | 75-125            | Pass        |                 |
| Copper                                                       | B23-Jn0010375 | NCP       | %     | 84       |  |  | 75-125            | Pass        |                 |
| Lead                                                         | B23-Jn0010375 | NCP       | %     | 92       |  |  | 75-125            | Pass        |                 |
| Mercury                                                      | B23-Jn0010375 | NCP       | %     | 96       |  |  | 75-125            | Pass        |                 |
| Nickel                                                       | B23-Jn0010375 | NCP       | %     | 84       |  |  | 75-125            | Pass        |                 |
| Zinc                                                         | B23-Jn0010375 | NCP       | %     | 88       |  |  | 75-125            | Pass        |                 |
| <b>Spike - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl carboxylic acids (PFCAs)</b>               |               |           |       | Result 1 |  |  |                   |             |                 |
| Perfluorobutanoic acid (PFBA)                                | S23-Jn0014953 | CP        | %     | 101      |  |  | 50-150            | Pass        |                 |
| Perfluorohexanoic acid (PFHxA)                               | S23-Jn0014953 | CP        | %     | 108      |  |  | 50-150            | Pass        |                 |
| Perfluoroheptanoic acid (PFHpA)                              | S23-Jn0014953 | CP        | %     | 105      |  |  | 50-150            | Pass        |                 |
| Perfluorooctanoic acid (PFOA)                                | S23-Jn0014953 | CP        | %     | 109      |  |  | 50-150            | Pass        |                 |
| Perfluorononanoic acid (PFNA)                                | S23-Jn0014953 | CP        | %     | 101      |  |  | 50-150            | Pass        |                 |
| Perfluorodecanoic acid (PFDA)                                | S23-Jn0014953 | CP        | %     | 101      |  |  | 50-150            | Pass        |                 |
| Perfluoroundecanoic acid (PFUnDA)                            | S23-Jn0014953 | CP        | %     | 113      |  |  | 50-150            | Pass        |                 |
| Perfluorododecanoic acid (PFDoDA)                            | S23-Jn0014953 | CP        | %     | 107      |  |  | 50-150            | Pass        |                 |
| Perfluorotetradecanoic acid (PFTeDA)                         | S23-Jn0014953 | CP        | %     | 100      |  |  | 50-150            | Pass        |                 |
| <b>Spike - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonamido substances</b>                 |               |           |       | Result 1 |  |  |                   |             |                 |
| Perfluorooctane sulfonamide (FOSA)                           | S23-Jn0014953 | CP        | %     | 97       |  |  | 50-150            | Pass        |                 |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)            | S23-Jn0014953 | CP        | %     | 112      |  |  | 50-150            | Pass        |                 |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)             | S23-Jn0014953 | CP        | %     | 124      |  |  | 50-150            | Pass        |                 |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) | S23-Jn0014953 | CP        | %     | 126      |  |  | 50-150            | Pass        |                 |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)  | S23-Jn0014953 | CP        | %     | 131      |  |  | 50-150            | Pass        |                 |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)    | S23-Jn0014953 | CP        | %     | 107      |  |  | 50-150            | Pass        |                 |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)   | S23-Jn0014953 | CP        | %     | 110      |  |  | 50-150            | Pass        |                 |
| <b>Spike - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>Perfluoroalkyl sulfonic acids (PFSA's)</b>                |               |           |       | Result 1 |  |  |                   |             |                 |
| Perfluorobutanesulfonic acid (PFBS)                          | S23-Jn0014953 | CP        | %     | 104      |  |  | 50-150            | Pass        |                 |
| Perfluorononanesulfonic acid (PFNS)                          | S23-Jn0014953 | CP        | %     | 105      |  |  | 50-150            | Pass        |                 |
| Perfluoropropanesulfonic acid (PFPrS)                        | S23-Jn0014953 | CP        | %     | 103      |  |  | 50-150            | Pass        |                 |
| Perfluoropentanesulfonic acid (PFPeS)                        | S23-Jn0014953 | CP        | %     | 97       |  |  | 50-150            | Pass        |                 |
| Perfluoroheptanesulfonic acid (PFHpS)                        | S23-Jn0014953 | CP        | %     | 97       |  |  | 50-150            | Pass        |                 |
| Perfluorooctanesulfonic acid (PFOS)                          | S23-Jn0014953 | CP        | %     | 104      |  |  | 50-150            | Pass        |                 |
| <b>Spike - % Recovery</b>                                    |               |           |       |          |  |  |                   |             |                 |
| <b>n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)</b>         |               |           |       | Result 1 |  |  |                   |             |                 |



| Test                                                   | Lab Sample ID | QA Source | Units | Result 1 |          |     | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------------------------------|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)    | S23-Jn0014953 | CP        | %     | 108      |          |     | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)     | S23-Jn0014953 | CP        | %     | 109      |          |     | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)    | S23-Jn0014953 | CP        | %     | 108      |          |     | 50-150            | Pass        |                 |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) | S23-Jn0014953 | CP        | %     | 101      |          |     | 50-150            | Pass        |                 |
| Test                                                   | Lab Sample ID | QA Source | Units | Result 1 |          |     | Acceptance Limits | Pass Limits | Qualifying Code |
| <b>Duplicate</b>                                       |               |           |       |          |          |     |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b>                  |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| TRH C6-C9                                              | N23-Jn0012236 | NCP       | mg/L  | < 0.02   | < 0.02   | <1  | 30%               | Pass        |                 |
| TRH C10-C14                                            | R23-Jn0008926 | NCP       | mg/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| TRH C15-C28                                            | R23-Jn0008926 | NCP       | mg/L  | < 0.1    | < 0.1    | <1  | 30%               | Pass        |                 |
| TRH C29-C36                                            | R23-Jn0008926 | NCP       | mg/L  | < 0.1    | < 0.1    | <1  | 30%               | Pass        |                 |
| TRH C6-C10                                             | N23-Jn0012236 | NCP       | mg/L  | < 0.02   | < 0.02   | <1  | 30%               | Pass        |                 |
| TRH >C10-C16                                           | R23-Jn0008926 | NCP       | mg/L  | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| TRH >C16-C34                                           | R23-Jn0008926 | NCP       | mg/L  | < 0.1    | < 0.1    | <1  | 30%               | Pass        |                 |
| TRH >C34-C40                                           | R23-Jn0008926 | NCP       | mg/L  | < 0.1    | < 0.1    | <1  | 30%               | Pass        |                 |
| <b>Duplicate</b>                                       |               |           |       |          |          |     |                   |             |                 |
| <b>Volatile Organics</b>                               |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| 1.1-Dichloroethane                                     | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.1-Dichloroethene                                     | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.1.1-Trichloroethane                                  | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.1.1.2-Tetrachloroethane                              | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.1.2-Trichloroethane                                  | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.1.2.2-Tetrachloroethane                              | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.2-Dibromoethane                                      | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.2-Dichlorobenzene                                    | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.2-Dichloroethane                                     | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.2-Dichloropropane                                    | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.2.3-Trichloropropane                                 | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.2.4-Trimethylbenzene                                 | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.3-Dichlorobenzene                                    | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.3-Dichloropropane                                    | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.3.5-Trimethylbenzene                                 | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 1.4-Dichlorobenzene                                    | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 2-Butanone (MEK)                                       | N23-Jn0012236 | NCP       | mg/L  | < 0.005  | < 0.005  | <1  | 30%               | Pass        |                 |
| 2-Propanone (Acetone)                                  | N23-Jn0012236 | NCP       | mg/L  | < 0.005  | < 0.005  | <1  | 30%               | Pass        |                 |
| 4-Chlorotoluene                                        | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| 4-Methyl-2-pentanone (MIBK)                            | N23-Jn0012236 | NCP       | mg/L  | < 0.005  | < 0.005  | <1  | 30%               | Pass        |                 |
| Allyl chloride                                         | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| Benzene                                                | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| Bromobenzene                                           | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| Bromochloromethane                                     | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| Bromodichloromethane                                   | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| Bromoform                                              | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| Bromomethane                                           | N23-Jn0012236 | NCP       | mg/L  | < 0.005  | < 0.005  | <1  | 30%               | Pass        |                 |
| Carbon disulfide                                       | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| Carbon Tetrachloride                                   | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| Chlorobenzene                                          | N23-Jn0012236 | NCP       | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| Chloroethane                                           | N23-Jn0012236 | NCP       | mg/L  | < 0.005  | < 0.005  | <1  | 30%               | Pass        |                 |

| Duplicate                                                    |               |     |      |          |          |     |     |      |
|--------------------------------------------------------------|---------------|-----|------|----------|----------|-----|-----|------|
| Volatile Organics                                            |               |     |      | Result 1 | Result 2 | RPD |     |      |
| Chloroform                                                   | N23-Jn0012236 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Chloromethane                                                | N23-Jn0012236 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| cis-1,2-Dichloroethene                                       | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| cis-1,3-Dichloropropene                                      | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Dibromochloromethane                                         | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Dibromomethane                                               | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Dichlorodifluoromethane                                      | N23-Jn0012236 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Ethylbenzene                                                 | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Iodomethane                                                  | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Isopropyl benzene (Cumene)                                   | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| m&p-Xylenes                                                  | N23-Jn0012236 | NCP | mg/L | < 0.002  | < 0.002  | <1  | 30% | Pass |
| Methylene Chloride                                           | N23-Jn0012236 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| o-Xylene                                                     | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Styrene                                                      | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Tetrachloroethene                                            | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Toluene                                                      | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| trans-1,2-Dichloroethene                                     | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| trans-1,3-Dichloropropene                                    | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Trichloroethene                                              | N23-Jn0012236 | NCP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Trichlorofluoromethane                                       | N23-Jn0012236 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Vinyl chloride                                               | N23-Jn0012236 | NCP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |
| Xylenes - Total*                                             | N23-Jn0012236 | NCP | mg/L | < 0.003  | < 0.003  | <1  | 30% | Pass |
| Duplicate                                                    |               |     |      |          |          |     |     |      |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions         |               |     |      | Result 1 | Result 2 | RPD |     |      |
| Naphthalene                                                  | N23-Jn0012236 | NCP | mg/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Duplicate                                                    |               |     |      |          |          |     |     |      |
| Perfluoroalkyl carboxylic acids (PFCAs)                      |               |     |      | Result 1 | Result 2 | RPD |     |      |
| Perfluorobutanoic acid (PFBA)                                | S23-Jn0014951 | CP  | ug/L | < 0.05   | < 0.05   | <1  | 30% | Pass |
| Perfluoropentanoic acid (PFPeA)                              | S23-Jn0014951 | CP  | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluorohexanoic acid (PFHxA)                               | S23-Jn0014951 | CP  | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluoroheptanoic acid (PFHpA)                              | S23-Jn0014951 | CP  | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluorooctanoic acid (PFOA)                                | S23-Jn0014951 | CP  | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluorononanoic acid (PFNA)                                | S23-Jn0014951 | CP  | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluorodecanoic acid (PFDA)                                | S23-Jn0014951 | CP  | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluoroundecanoic acid (PFUnDA)                            | S23-Jn0014951 | CP  | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluorododecanoic acid (PFDoDA)                            | S23-Jn0014951 | CP  | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluorotridecanoic acid (PFTrDA)                           | S23-Jn0014951 | CP  | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluorotetradecanoic acid (PFTeDA)                         | S23-Jn0014951 | CP  | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Duplicate                                                    |               |     |      |          |          |     |     |      |
| Perfluoroalkyl sulfonamido substances                        |               |     |      | Result 1 | Result 2 | RPD |     |      |
| Perfluorooctane sulfonamide (FOSA)                           | S23-Jn0014951 | CP  | ug/L | < 0.05   | < 0.05   | <1  | 30% | Pass |
| N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)            | S23-Jn0014951 | CP  | ug/L | < 0.05   | < 0.05   | <1  | 30% | Pass |
| N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)             | S23-Jn0014951 | CP  | ug/L | < 0.05   | < 0.05   | <1  | 30% | Pass |
| 2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) | S23-Jn0014951 | CP  | ug/L | < 0.05   | < 0.05   | <1  | 30% | Pass |
| 2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)  | S23-Jn0014951 | CP  | ug/L | < 0.05   | < 0.05   | <1  | 30% | Pass |
| N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)    | S23-Jn0014951 | CP  | ug/L | < 0.05   | < 0.05   | <1  | 30% | Pass |
| N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)   | S23-Jn0014951 | CP  | ug/L | < 0.05   | < 0.05   | <1  | 30% | Pass |

| Duplicate                                              |               |    |      |          |          |     |     |      |
|--------------------------------------------------------|---------------|----|------|----------|----------|-----|-----|------|
| Perfluoroalkyl sulfonic acids (PFASs)                  |               |    |      | Result 1 | Result 2 | RPD |     |      |
| Perfluorobutanesulfonic acid (PFBS)                    | S23-Jn0014951 | CP | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluoropropanesulfonic acid (PFPrS)                  | S23-Jn0014951 | CP | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluoropentanesulfonic acid (PFPeS)                  | S23-Jn0014951 | CP | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluorohexanesulfonic acid (PFHxS)                   | S23-Jn0014951 | CP | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluoroheptanesulfonic acid (PFHpS)                  | S23-Jn0014951 | CP | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluorooctanesulfonic acid (PFOS)                    | S23-Jn0014951 | CP | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Perfluorodecanesulfonic acid (PFDS)                    | S23-Jn0014951 | CP | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Duplicate                                              |               |    |      |          |          |     |     |      |
| n:2 Fluorotelomer sulfonic acids (n:2 FTSA)            |               |    |      | Result 1 | Result 2 | RPD |     |      |
| 1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)    | S23-Jn0014951 | CP | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| 1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)    | S23-Jn0014951 | CP | ug/L | < 0.05   | < 0.05   | <1  | 30% | Pass |
| 1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)    | S23-Jn0014951 | CP | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| 1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) | S23-Jn0014951 | CP | ug/L | < 0.01   | < 0.01   | <1  | 30% | Pass |
| Duplicate                                              |               |    |      |          |          |     |     |      |
| Alkali Metals                                          |               |    |      | Result 1 | Result 2 | RPD |     |      |
| Calcium                                                | S23-Jn0014953 | CP | mg/L | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Magnesium                                              | S23-Jn0014953 | CP | mg/L | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Duplicate                                              |               |    |      |          |          |     |     |      |
| Heavy Metals                                           |               |    |      | Result 1 | Result 2 | RPD |     |      |
| Arsenic                                                | S23-Jn0014953 | CP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Cadmium                                                | S23-Jn0014953 | CP | mg/L | < 0.0002 | < 0.0002 | <1  | 30% | Pass |
| Chromium                                               | S23-Jn0014953 | CP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Copper                                                 | S23-Jn0014953 | CP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Lead                                                   | S23-Jn0014953 | CP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Mercury                                                | S23-Jn0014953 | CP | mg/L | < 0.0001 | < 0.0001 | <1  | 30% | Pass |
| Nickel                                                 | S23-Jn0014953 | CP | mg/L | < 0.001  | < 0.001  | <1  | 30% | Pass |
| Zinc                                                   | S23-Jn0014953 | CP | mg/L | < 0.005  | < 0.005  | <1  | 30% | Pass |

## Comments

### Sample Integrity

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Custody Seals Intact (if used)                                          | N/A |
| Attempt to Chill was evident                                            | Yes |
| Sample correctly preserved                                              | Yes |
| Appropriate sample containers have been used                            | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime                                     | Yes |
| Some samples have been subcontracted                                    | No  |

### Qualifier Codes/Comments

| Code | Description                                                                                                                                                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N01  | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).                                                                                                                                                                                                                   |
| N02  | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04  | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.                                                                                                                              |
| N07  | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs                                                                                                                                                                                                       |
| N11  | Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.                                                                                                                     |
| N15  | Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).                                                                                                                                                 |

### Authorised by:

|                    |                             |
|--------------------|-----------------------------|
| Andrew Black       | Analytical Services Manager |
| Fang Yee Tan       | Senior Analyst-Metal        |
| Mickael Ros        | Senior Analyst-Metal        |
| Roopesh Rangarajan | Senior Analyst-Organic      |
| Roopesh Rangarajan | Senior Analyst-Volatile     |



**Glenn Jackson**  
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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# OVERNIGHT TAT ADDITIONAL: FW: Eurofins Test Results - Report 996556 : Site CABRAMATTA WATER + SV (65196)

Andrew Black

Fri 2023-06-16 2:22 PM

To: #AU25\_Enviro\_Sample\_NSW <EnviroSampleNSW@eurofins.com>

**INFO:** INTERNAL EMAIL - Sent from your own Eurofins email domain.

Urgent overnight TAT additional for M8filt to be run on all water samples thanks team.

Andrew Black

**Analytical Services Manager**

**Eurofins | Environment Testing Australia Pty Ltd**

1 / 2 Frost Drive

Mayfield West, NSW, 2304

Phone: +61 2 9900 8490

Mobile: +61 410 220 750

Email: [AndrewBlack@eurofins.com](mailto:AndrewBlack@eurofins.com)

Website: [eurofins.com.au/environmental-testing](http://eurofins.com.au/environmental-testing)



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---

**From:** Alison Smith <alisonsmith@jbsg.com.au>

**Sent:** Friday, 16 June 2023 2:21 PM

**To:** Andrew Black <AndrewBlack@eurofins.com>

**Cc:** Jemimah Vee <jvee@jbsg.com.au>

**Subject:** RE: Eurofins Test Results - Report 996556 : Site CABRAMATTA WATER + SV (65196)

**CAUTION:** EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Andrew,

Could I please get the metals filtered and run again for all samples?

I need these ASAP, when would be the soonest I can have the results?

Many thanks

Ali

**Alison Smith | Project Manager | JBS&G**





Gadigal Country | Level 1, 50 Margaret Street, Sydney, NSW

T: 02 8245 0300 | M: 0488 977 474 | E: [alisonsmith@jbsg.com.au](mailto:alisonsmith@jbsg.com.au) | W: [jbsg.com.au](http://jbsg.com.au) | L: [Conditions and Limitations](#)

*Exceptional Outcomes*

**From:** [AndrewBlack@eurofins.com](mailto:AndrewBlack@eurofins.com) <[AndrewBlack@eurofins.com](mailto:AndrewBlack@eurofins.com)>

**Sent:** Friday, June 16, 2023 10:12 AM

**To:** Alison Smith <[alisonsmith@jbsg.com.au](mailto:alisonsmith@jbsg.com.au)>

**Cc:** Jemimah Vee <[jvee@jbsg.com.au](mailto:jvee@jbsg.com.au)>

**Subject:** Eurofins Test Results - Report 996556 : Site CABRAMATTA WATER + SV (65196)

\*\*\*[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.\*\*\*

Kindest Regards,

Andrew Black

**Analytical Services Manager**

**Eurofins | Environment Testing**

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Website: <http://environment.eurofins.com.au>

[View our latest EnviroNotes](#)



Microplastics Analysis

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## Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

| Melbourne                                                                                       | Geelong                                                                                        | Sydney                                                                                      | Canberra                                                                                        | Brisbane                                                                                       | Newcastle                                                                                              |
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## Eurofins ARL Pty Ltd

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## Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

| Auckland                                                                           | Christchurch                                                                             |
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## Sample Receipt Advice

|                           |                                   |
|---------------------------|-----------------------------------|
| <b>Company name:</b>      | JBS & G Australia (NSW) P/L       |
| <b>Contact name:</b>      | Alison Smith                      |
| <b>Project name:</b>      | ADDITIONAL: CABRAMATTA WATER + SV |
| <b>Project ID:</b>        | ADDITIONAL: 65196                 |
| <b>Turnaround time:</b>   | Overnight                         |
| <b>Date/Time received</b> | Jun 16, 2023 2:21 PM              |
| <b>Eurofins reference</b> | 999571                            |

## Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 13.5 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

## Notes

## Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

**Andrew Black on phone : (+61) 2 9900 8490 or by email: [AndrewBlack@eurofins.com](mailto:AndrewBlack@eurofins.com)**

Results will be delivered electronically via email to Alison Smith - [alisonsmith@jbsg.com.au](mailto:alisonsmith@jbsg.com.au).



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**Sydney**  
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Tel: +61 2 9900 8400  
NATA# 1261 Site# 18217

**Canberra**  
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Tel: +61 2 6113 8091  
NATA# 1261 Site# 25466

**Brisbane**  
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**Newcastle**  
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web: www.eurofins.com.au  
email: EnviroSales@eurofins.com

|                                                     |                                               |                   |              |                      |                      |
|-----------------------------------------------------|-----------------------------------------------|-------------------|--------------|----------------------|----------------------|
| <b>Company Name:</b>                                | JBS & G Australia (NSW) P/L                   | <b>Order No.:</b> |              | <b>Received:</b>     | Jun 16, 2023 2:21 PM |
| <b>Address:</b>                                     | Level 1, 50 Margaret St<br>Sydney<br>NSW 2000 | <b>Report #:</b>  | 999571       | <b>Due:</b>          | Jun 19, 2023         |
|                                                     |                                               | <b>Phone:</b>     | 02 8245 0300 | <b>Priority:</b>     | Overnight            |
|                                                     |                                               | <b>Fax:</b>       |              | <b>Contact Name:</b> | Alison Smith         |
| <b>Project Name:</b>                                | ADDITIONAL: CABRAMATTA WATER + SV             |                   |              |                      |                      |
| <b>Project ID:</b>                                  | ADDITIONAL: 65196                             |                   |              |                      |                      |
| Eurofins Analytical Services Manager : Andrew Black |                                               |                   |              |                      |                      |

| Sample Detail                                |           |              |               |        |               | Metals M8 filtered |
|----------------------------------------------|-----------|--------------|---------------|--------|---------------|--------------------|
|                                              |           |              |               |        |               |                    |
| Sydney Laboratory - NATA # 1261 Site # 18217 |           |              |               |        |               | X                  |
| External Laboratory                          |           |              |               |        |               |                    |
| No                                           | Sample ID | Sample Date  | Sampling Time | Matrix | LAB ID        |                    |
| 1                                            | MW01      | Jun 05, 2023 |               | Water  | S23-Jn0036378 | X                  |
| 2                                            | MW02      | Jun 05, 2023 |               | Water  | S23-Jn0036379 | X                  |
| 3                                            | MW03      | Jun 05, 2023 |               | Water  | S23-Jn0036380 | X                  |
| 4                                            | QC01      | Jun 05, 2023 |               | Water  | S23-Jn0036381 | X                  |
| Test Counts                                  |           |              |               |        |               | 4                  |

**JBS & G Australia (NSW) P/L**  
**Level 1, 50 Margaret St**  
**Sydney**  
**NSW 2000**



**NATA Accredited**  
**Accreditation Number 1261**  
**Site Number 18217**

Accredited for compliance with ISO/IEC 17025 – Testing  
 NATA is a signatory to the ILAC Mutual Recognition  
 Arrangement for the mutual recognition of the  
 equivalence of testing, medical testing, calibration,  
 inspection, proficiency testing scheme providers and  
 reference materials producers reports and certificates.

**Attention:** **Alison Smith**

**Report** **999571-W**  
 Project name **ADDITIONAL: CABRAMATTA WATER + SV**  
 Project ID **ADDITIONAL: 65196**  
 Received Date **Jun 16, 2023**

| Client Sample ID    |        |      | MW01          | MW02          | MW03          | QC01          |
|---------------------|--------|------|---------------|---------------|---------------|---------------|
| Sample Matrix       |        |      | Water         | Water         | Water         | Water         |
| Eurofins Sample No. |        |      | S23-Jn0036378 | S23-Jn0036379 | S23-Jn0036380 | S23-Jn0036381 |
| Date Sampled        |        |      | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  | Jun 05, 2023  |
| Test/Reference      | LOR    | Unit |               |               |               |               |
| <b>Heavy Metals</b> |        |      |               |               |               |               |
| Arsenic (filtered)  | 0.001  | mg/L | < 0.001       | 0.002         | 0.002         | 0.003         |
| Cadmium (filtered)  | 0.0002 | mg/L | 0.0007        | 0.0026        | 0.0002        | 0.0002        |
| Chromium (filtered) | 0.001  | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Copper (filtered)   | 0.001  | mg/L | 0.002         | 0.001         | 0.001         | 0.001         |
| Lead (filtered)     | 0.001  | mg/L | < 0.001       | < 0.001       | < 0.001       | < 0.001       |
| Mercury (filtered)  | 0.0001 | mg/L | < 0.0001      | < 0.0001      | < 0.0001      | < 0.0001      |
| Nickel (filtered)   | 0.001  | mg/L | 0.085         | 0.26          | 0.036         | 0.042         |
| Zinc (filtered)     | 0.005  | mg/L | 0.21          | 0.33          | 0.097         | 0.10          |

**Sample History**

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

**Description**

Metals M8 filtered

**Testing Site**

Sydney

**Extracted**

Jun 16, 2023

**Holding Time**

28 Days

- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS



**Company Name:** JBS & G Australia (NSW) P/L  
**Address:** Level 1, 50 Margaret St  
Sydney  
NSW 2000

**Project Name:** ADDITIONAL: CABRAMATTA WATER + SV  
**Project ID:** ADDITIONAL: 65196

**Order No.:**  
**Report #:** 999571  
**Phone:** 02 8245 0300  
**Fax:**

**Received:** Jun 16, 2023 2:21 PM  
**Due:** Jun 19, 2023  
**Priority:** Overnight  
**Contact Name:** Alison Smith

Eurofins Analytical Services Manager : Andrew Black

## Sample Detail

Metals M8 filtered

Sydney Laboratory - NATA # 1261 Site # 18217

External Laboratory

| No          | Sample ID | Sample Date  | Sampling Time | Matrix | LAB ID        |   |
|-------------|-----------|--------------|---------------|--------|---------------|---|
| 1           | MW01      | Jun 05, 2023 |               | Water  | S23-Jn0036378 | X |
| 2           | MW02      | Jun 05, 2023 |               | Water  | S23-Jn0036379 | X |
| 3           | MW03      | Jun 05, 2023 |               | Water  | S23-Jn0036380 | X |
| 4           | QC01      | Jun 05, 2023 |               | Water  | S23-Jn0036381 | X |
| Test Counts |           |              |               |        |               | 4 |

## Internal Quality Control Review and Glossary

### General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with **blue** colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

### Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

### Units

|                                                  |                                           |                                                                          |
|--------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------|
| <b>mg/kg:</b> milligrams per kilogram            | <b>mg/L:</b> milligrams per litre         | <b>µg/L:</b> micrograms per litre                                        |
| <b>ppm:</b> parts per million                    | <b>ppb:</b> parts per billion             | <b>%:</b> Percentage                                                     |
| <b>org/100 mL:</b> Organisms per 100 millilitres | <b>NTU:</b> Nephelometric Turbidity Units | <b>MPN/100 mL:</b> Most Probable Number of organisms per 100 millilitres |
| <b>CFU:</b> Colony forming unit                  |                                           |                                                                          |

### Terms

|                         |                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APHA</b>             | American Public Health Association                                                                                                                                                                                                                                                            |
| <b>COC</b>              | Chain of Custody                                                                                                                                                                                                                                                                              |
| <b>CP</b>               | Client Parent - QC was performed on samples pertaining to this report                                                                                                                                                                                                                         |
| <b>CRM</b>              | Certified Reference Material (ISO17034) - reported as percent recovery.                                                                                                                                                                                                                       |
| <b>Dry</b>              | Where a moisture has been determined on a solid sample the result is expressed on a dry basis.                                                                                                                                                                                                |
| <b>Duplicate</b>        | A second piece of analysis from the same sample and reported in the same units as the result to show comparison.                                                                                                                                                                              |
| <b>LOR</b>              | Limit of Reporting.                                                                                                                                                                                                                                                                           |
| <b>LCS</b>              | Laboratory Control Sample - reported as percent recovery.                                                                                                                                                                                                                                     |
| <b>Method Blank</b>     | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.                                                                                                                                |
| <b>NCP</b>              | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.                                                                                                                            |
| <b>RPD</b>              | Relative Percent Difference between two Duplicate pieces of analysis.                                                                                                                                                                                                                         |
| <b>SPIKE</b>            | Addition of the analyte to the sample and reported as percentage recovery.                                                                                                                                                                                                                    |
| <b>SRA</b>              | Sample Receipt Advice                                                                                                                                                                                                                                                                         |
| <b>Surr - Surrogate</b> | The addition of a like compound to the analyte target and reported as percentage recovery.                                                                                                                                                                                                    |
| <b>TBTO</b>             | Tributyltin oxide ( <i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| <b>TCLP</b>             | Toxicity Characteristic Leaching Procedure                                                                                                                                                                                                                                                    |
| <b>TEQ</b>              | Toxic Equivalency Quotient or Total Equivalence                                                                                                                                                                                                                                               |
| <b>QSM</b>              | US Department of Defense Quality Systems Manual Version 5.4                                                                                                                                                                                                                                   |
| <b>US EPA</b>           | United States Environmental Protection Agency                                                                                                                                                                                                                                                 |
| <b>WA DWER</b>          | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA                                                                                                                                                                                                                 |

### QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

### QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

## Quality Control Results

| Test                      |               |           | Units | Result 1 |          |     | Acceptance Limits | Pass Limits | Qualifying Code |
|---------------------------|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| <b>Method Blank</b>       |               |           |       |          |          |     |                   |             |                 |
| <b>Heavy Metals</b>       |               |           |       |          |          |     |                   |             |                 |
| Arsenic (filtered)        |               |           | mg/L  | < 0.001  |          |     | 0.001             | Pass        |                 |
| Cadmium (filtered)        |               |           | mg/L  | < 0.0002 |          |     | 0.0002            | Pass        |                 |
| Chromium (filtered)       |               |           | mg/L  | < 0.001  |          |     | 0.001             | Pass        |                 |
| Copper (filtered)         |               |           | mg/L  | < 0.001  |          |     | 0.001             | Pass        |                 |
| Lead (filtered)           |               |           | mg/L  | < 0.001  |          |     | 0.001             | Pass        |                 |
| Mercury (filtered)        |               |           | mg/L  | < 0.0001 |          |     | 0.0001            | Pass        |                 |
| Nickel (filtered)         |               |           | mg/L  | < 0.001  |          |     | 0.001             | Pass        |                 |
| Zinc (filtered)           |               |           | mg/L  | < 0.005  |          |     | 0.005             | Pass        |                 |
| <b>LCS - % Recovery</b>   |               |           |       |          |          |     |                   |             |                 |
| <b>Heavy Metals</b>       |               |           |       |          |          |     |                   |             |                 |
| Arsenic (filtered)        |               |           | %     | 94       |          |     | 80-120            | Pass        |                 |
| Cadmium (filtered)        |               |           | %     | 97       |          |     | 80-120            | Pass        |                 |
| Chromium (filtered)       |               |           | %     | 100      |          |     | 80-120            | Pass        |                 |
| Copper (filtered)         |               |           | %     | 108      |          |     | 80-120            | Pass        |                 |
| Lead (filtered)           |               |           | %     | 109      |          |     | 80-120            | Pass        |                 |
| Mercury (filtered)        |               |           | %     | 108      |          |     | 80-120            | Pass        |                 |
| Nickel (filtered)         |               |           | %     | 102      |          |     | 80-120            | Pass        |                 |
| Zinc (filtered)           |               |           | %     | 104      |          |     | 80-120            | Pass        |                 |
| Test                      | Lab Sample ID | QA Source | Units | Result 1 |          |     | Acceptance Limits | Pass Limits | Qualifying Code |
| <b>Spike - % Recovery</b> |               |           |       |          |          |     |                   |             |                 |
| <b>Heavy Metals</b>       |               |           |       | Result 1 |          |     |                   |             |                 |
| Arsenic (filtered)        | S23-Jn0022724 | NCP       | %     | 95       |          |     | 75-125            | Pass        |                 |
| Cadmium (filtered)        | S23-Jn0022724 | NCP       | %     | 95       |          |     | 75-125            | Pass        |                 |
| Chromium (filtered)       | S23-Jn0022724 | NCP       | %     | 96       |          |     | 75-125            | Pass        |                 |
| Copper (filtered)         | S23-Jn0022724 | NCP       | %     | 102      |          |     | 75-125            | Pass        |                 |
| Lead (filtered)           | S23-Jn0022724 | NCP       | %     | 105      |          |     | 75-125            | Pass        |                 |
| Mercury (filtered)        | S23-Jn0022724 | NCP       | %     | 100      |          |     | 75-125            | Pass        |                 |
| Nickel (filtered)         | S23-Jn0022724 | NCP       | %     | 96       |          |     | 75-125            | Pass        |                 |
| Zinc (filtered)           | S23-Jn0022724 | NCP       | %     | 97       |          |     | 75-125            | Pass        |                 |
| Test                      | Lab Sample ID | QA Source | Units | Result 1 |          |     | Acceptance Limits | Pass Limits | Qualifying Code |
| <b>Duplicate</b>          |               |           |       |          |          |     |                   |             |                 |
| <b>Heavy Metals</b>       |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| Arsenic (filtered)        | S23-Jn0036378 | CP        | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| Cadmium (filtered)        | S23-Jn0036378 | CP        | mg/L  | 0.0007   | 0.0007   | 2.0 | 30%               | Pass        |                 |
| Chromium (filtered)       | S23-Jn0036378 | CP        | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| Copper (filtered)         | S23-Jn0036378 | CP        | mg/L  | 0.002    | 0.002    | 4.4 | 30%               | Pass        |                 |
| Lead (filtered)           | S23-Jn0036378 | CP        | mg/L  | < 0.001  | < 0.001  | <1  | 30%               | Pass        |                 |
| Mercury (filtered)        | S23-Jn0036378 | CP        | mg/L  | < 0.0001 | < 0.0001 | <1  | 30%               | Pass        |                 |
| Nickel (filtered)         | S23-Jn0036378 | CP        | mg/L  | 0.085    | 0.084    | 1.7 | 30%               | Pass        |                 |
| Zinc (filtered)           | S23-Jn0036378 | CP        | mg/L  | 0.21     | 0.21     | <1  | 30%               | Pass        |                 |

## Comments

### Sample Integrity

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Custody Seals Intact (if used)                                          | N/A |
| Attempt to Chill was evident                                            | Yes |
| Sample correctly preserved                                              | Yes |
| Appropriate sample containers have been used                            | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime                                     | Yes |
| Some samples have been subcontracted                                    | No  |

### Authorised by:

|              |                             |
|--------------|-----------------------------|
| Andrew Black | Analytical Services Manager |
| Fang Yee Tan | Senior Analyst-Metal        |



**Glenn Jackson**  
**Managing Director**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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## **CERTIFICATE OF ANALYSIS 324505**

### **Client Details**

|                  |                                            |
|------------------|--------------------------------------------|
| <b>Client</b>    | JBS & G (NSW & WA) Pty Ltd                 |
| <b>Attention</b> | Alison Smith                               |
| <b>Address</b>   | Level 1, 50 Margaret St, Sydney, NSW, 2000 |

### **Sample Details**

|                                             |                                 |
|---------------------------------------------|---------------------------------|
| <b>Your Reference</b>                       | <b><u>65196, Cabramatta</u></b> |
| <b>Number of Samples</b>                    | 2 Soil                          |
| <b>Date samples received</b>                | 31/05/2023                      |
| <b>Date completed instructions received</b> | 31/05/2023                      |

### **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

**Please refer to the last page of this report for any comments relating to the results.**

### **Report Details**

|                                                                                                             |            |
|-------------------------------------------------------------------------------------------------------------|------------|
| <b>Date results requested by</b>                                                                            | 07/06/2023 |
| <b>Date of Issue</b>                                                                                        | 06/06/2023 |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full.                       |            |
| Accredited for compliance with ISO/IEC 17025 - Testing. <b>Tests not covered by NATA are denoted with *</b> |            |

#### **Asbestos Approved By**

Analysed by Asbestos Approved Analyst: Stuart Chen  
 Authorised by Asbestos Approved Signatory: Lucy Zhu

#### **Results Approved By**

Alexander Mitchell Maclean, Senior Chemist  
 Dragana Tomas, Senior Chemist  
 Kyle Gavril, Senior Chemist  
 Loren Bardwell, Development Chemist  
 Lucy Zhu, Asbestos Supervisor

#### **Authorised By**

Nancy Zhang, Laboratory Manager



| VOCs in soil              |       |            |
|---------------------------|-------|------------|
| Our Reference             |       | 324505-1   |
| Your Reference            | UNITS | QA01       |
| Date Sampled              |       | 29/05/2023 |
| Type of sample            |       | Soil       |
| Date extracted            | -     | 01/06/2023 |
| Date analysed             | -     | 02/06/2023 |
| Dichlorodifluoromethane   | mg/kg | <1         |
| Chloromethane             | mg/kg | <1         |
| Vinyl Chloride            | mg/kg | <1         |
| Bromomethane              | mg/kg | <1         |
| Chloroethane              | mg/kg | <1         |
| Trichlorofluoromethane    | mg/kg | <1         |
| 1,1-Dichloroethene        | mg/kg | <1         |
| trans-1,2-dichloroethene  | mg/kg | <1         |
| 1,1-dichloroethane        | mg/kg | <1         |
| cis-1,2-dichloroethene    | mg/kg | <1         |
| bromochloromethane        | mg/kg | <1         |
| chloroform                | mg/kg | <1         |
| 2,2-dichloropropane       | mg/kg | <1         |
| 1,2-dichloroethane        | mg/kg | <1         |
| 1,1,1-trichloroethane     | mg/kg | <1         |
| 1,1-dichloropropene       | mg/kg | <1         |
| Cyclohexane               | mg/kg | <1         |
| carbon tetrachloride      | mg/kg | <1         |
| Benzene                   | mg/kg | <0.2       |
| dibromomethane            | mg/kg | <1         |
| 1,2-dichloropropane       | mg/kg | <1         |
| trichloroethene           | mg/kg | <1         |
| bromodichloromethane      | mg/kg | <1         |
| trans-1,3-dichloropropene | mg/kg | <1         |
| cis-1,3-dichloropropene   | mg/kg | <1         |
| 1,1,2-trichloroethane     | mg/kg | <1         |
| Toluene                   | mg/kg | <0.5       |
| 1,3-dichloropropane       | mg/kg | <1         |
| dibromochloromethane      | mg/kg | <1         |
| 1,2-dibromoethane         | mg/kg | <1         |
| tetrachloroethene         | mg/kg | <1         |
| 1,1,1,2-tetrachloroethane | mg/kg | <1         |
| chlorobenzene             | mg/kg | <1         |
| Ethylbenzene              | mg/kg | <1         |

| VOCs in soil                     |       |            |
|----------------------------------|-------|------------|
| Our Reference                    |       | 324505-1   |
| Your Reference                   | UNITS | QA01       |
| Date Sampled                     |       | 29/05/2023 |
| Type of sample                   |       | Soil       |
| bromoform                        | mg/kg | <1         |
| m+p-xylene                       | mg/kg | <2         |
| styrene                          | mg/kg | <1         |
| 1,1,2,2-tetrachloroethane        | mg/kg | <1         |
| o-Xylene                         | mg/kg | <1         |
| 1,2,3-trichloropropane           | mg/kg | <1         |
| isopropylbenzene                 | mg/kg | <1         |
| bromobenzene                     | mg/kg | <1         |
| n-propyl benzene                 | mg/kg | <1         |
| 2-chlorotoluene                  | mg/kg | <1         |
| 4-chlorotoluene                  | mg/kg | <1         |
| 1,3,5-trimethyl benzene          | mg/kg | <1         |
| tert-butyl benzene               | mg/kg | <1         |
| 1,2,4-trimethyl benzene          | mg/kg | <1         |
| 1,3-dichlorobenzene              | mg/kg | <1         |
| sec-butyl benzene                | mg/kg | <1         |
| 1,4-dichlorobenzene              | mg/kg | <1         |
| 4-isopropyl toluene              | mg/kg | <1         |
| 1,2-dichlorobenzene              | mg/kg | <1         |
| n-butyl benzene                  | mg/kg | <1         |
| 1,2-dibromo-3-chloropropane      | mg/kg | <1         |
| 1,2,4-trichlorobenzene           | mg/kg | <1         |
| hexachlorobutadiene              | mg/kg | <1         |
| 1,2,3-trichlorobenzene           | mg/kg | <1         |
| Surrogate Dibromofluorometha     | %     | 111        |
| Surrogate aaa-Trifluorotoluene   | %     | 96         |
| Surrogate Toluene-d <sub>8</sub> | %     | 105        |
| Surrogate 4-Bromofluorobenzene   | %     | 104        |

| vTRH(C6-C10)/BTEXN in Soil                           |       |            |
|------------------------------------------------------|-------|------------|
| Our Reference                                        |       | 324505-1   |
| Your Reference                                       | UNITS | QA01       |
| Date Sampled                                         |       | 29/05/2023 |
| Type of sample                                       |       | Soil       |
| Date extracted                                       | -     | 01/06/2023 |
| Date analysed                                        | -     | 02/06/2023 |
| TRH C <sub>6</sub> - C <sub>9</sub>                  | mg/kg | <25        |
| TRH C <sub>6</sub> - C <sub>10</sub>                 | mg/kg | <25        |
| vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1) | mg/kg | <25        |
| Benzene                                              | mg/kg | <0.2       |
| Toluene                                              | mg/kg | <0.5       |
| Ethylbenzene                                         | mg/kg | <1         |
| m+p-xylene                                           | mg/kg | <2         |
| o-Xylene                                             | mg/kg | <1         |
| Naphthalene                                          | mg/kg | <1         |
| Total +ve Xylenes                                    | mg/kg | <1         |
| Surrogate aaa-Trifluorotoluene                       | %     | 96         |

| svTRH (C10-C40) in Soil                                      |       |            |
|--------------------------------------------------------------|-------|------------|
| Our Reference                                                |       | 324505-1   |
| Your Reference                                               | UNITS | QA01       |
| Date Sampled                                                 |       | 29/05/2023 |
| Type of sample                                               |       | Soil       |
| Date extracted                                               | -     | 01/06/2023 |
| Date analysed                                                | -     | 02/06/2023 |
| TRH C <sub>10</sub> - C <sub>14</sub>                        | mg/kg | <50        |
| TRH C <sub>15</sub> - C <sub>28</sub>                        | mg/kg | <100       |
| TRH C <sub>29</sub> - C <sub>36</sub>                        | mg/kg | 140        |
| Total +ve TRH (C10-C36)                                      | mg/kg | 140        |
| TRH >C <sub>10</sub> -C <sub>16</sub>                        | mg/kg | <50        |
| TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2) | mg/kg | <50        |
| TRH >C <sub>16</sub> -C <sub>34</sub>                        | mg/kg | 170        |
| TRH >C <sub>34</sub> -C <sub>40</sub>                        | mg/kg | <100       |
| Total +ve TRH (>C10-C40)                                     | mg/kg | 170        |
| Surrogate o-Terphenyl                                        | %     | 91         |

| PAHs in Soil                      |       |            |
|-----------------------------------|-------|------------|
| Our Reference                     |       | 324505-1   |
| Your Reference                    | UNITS | QA01       |
| Date Sampled                      |       | 29/05/2023 |
| Type of sample                    |       | Soil       |
| Date extracted                    | -     | 01/06/2023 |
| Date analysed                     | -     | 02/06/2023 |
| Naphthalene                       | mg/kg | <0.1       |
| Acenaphthylene                    | mg/kg | <0.1       |
| Acenaphthene                      | mg/kg | <0.1       |
| Fluorene                          | mg/kg | <0.1       |
| Phenanthrene                      | mg/kg | <0.1       |
| Anthracene                        | mg/kg | <0.1       |
| Fluoranthene                      | mg/kg | 0.1        |
| Pyrene                            | mg/kg | 0.1        |
| Benzo(a)anthracene                | mg/kg | 0.1        |
| Chrysene                          | mg/kg | <0.1       |
| Benzo(b,j+k)fluoranthene          | mg/kg | <0.2       |
| Benzo(a)pyrene                    | mg/kg | 0.08       |
| Indeno(1,2,3-c,d)pyrene           | mg/kg | <0.1       |
| Dibenzo(a,h)anthracene            | mg/kg | <0.1       |
| Benzo(g,h,i)perylene              | mg/kg | <0.1       |
| Total +ve PAH's                   | mg/kg | 0.4        |
| Benzo(a)pyrene TEQ calc (zero)    | mg/kg | <0.5       |
| Benzo(a)pyrene TEQ calc(half)     | mg/kg | <0.5       |
| Benzo(a)pyrene TEQ calc(PQL)      | mg/kg | <0.5       |
| Surrogate <i>p</i> -Terphenyl-d14 | %     | 89         |



| Organochlorine Pesticides in soil |       |            |
|-----------------------------------|-------|------------|
| Our Reference                     |       | 324505-1   |
| Your Reference                    | UNITS | QA01       |
| Date Sampled                      |       | 29/05/2023 |
| Type of sample                    |       | Soil       |
| Date extracted                    | -     | 01/06/2023 |
| Date analysed                     | -     | 02/06/2023 |
| alpha-BHC                         | mg/kg | <0.1       |
| HCB                               | mg/kg | <0.1       |
| beta-BHC                          | mg/kg | <0.1       |
| gamma-BHC                         | mg/kg | <0.1       |
| Heptachlor                        | mg/kg | <0.1       |
| delta-BHC                         | mg/kg | <0.1       |
| Aldrin                            | mg/kg | <0.1       |
| Heptachlor Epoxide                | mg/kg | <0.1       |
| gamma-Chlordane                   | mg/kg | <0.1       |
| alpha-chlordane                   | mg/kg | <0.1       |
| Endosulfan I                      | mg/kg | <0.1       |
| pp-DDE                            | mg/kg | <0.1       |
| Dieldrin                          | mg/kg | <0.1       |
| Endrin                            | mg/kg | <0.1       |
| Endosulfan II                     | mg/kg | <0.1       |
| pp-DDD                            | mg/kg | <0.1       |
| Endrin Aldehyde                   | mg/kg | <0.1       |
| pp-DDT                            | mg/kg | <0.1       |
| Endosulfan Sulphate               | mg/kg | <0.1       |
| Methoxychlor                      | mg/kg | <0.1       |
| Total +ve DDT+DDD+DDE             | mg/kg | <0.1       |
| Surrogate TCMX                    | %     | 99         |

| PCBs in Soil               |       |            |
|----------------------------|-------|------------|
| Our Reference              |       | 324505-1   |
| Your Reference             | UNITS | QA01       |
| Date Sampled               |       | 29/05/2023 |
| Type of sample             |       | Soil       |
| Date extracted             | -     | 01/06/2023 |
| Date analysed              | -     | 02/06/2023 |
| Aroclor 1016               | mg/kg | <0.1       |
| Aroclor 1221               | mg/kg | <0.1       |
| Aroclor 1232               | mg/kg | <0.1       |
| Aroclor 1242               | mg/kg | <0.1       |
| Aroclor 1248               | mg/kg | <0.1       |
| Aroclor 1254               | mg/kg | <0.1       |
| Aroclor 1260               | mg/kg | <0.1       |
| Total +ve PCBs (1016-1260) | mg/kg | <0.1       |
| Surrogate TCMX             | %     | 99         |

| Acid Extractable metals in soil |       |            |
|---------------------------------|-------|------------|
| Our Reference                   |       | 324505-1   |
| Your Reference                  | UNITS | QA01       |
| Date Sampled                    |       | 29/05/2023 |
| Type of sample                  |       | Soil       |
| Date prepared                   | -     | 01/06/2023 |
| Date analysed                   | -     | 02/06/2023 |
| Arsenic                         | mg/kg | 12         |
| Cadmium                         | mg/kg | <0.4       |
| Chromium                        | mg/kg | 27         |
| Copper                          | mg/kg | 28         |
| Lead                            | mg/kg | 74         |
| Mercury                         | mg/kg | <0.1       |
| Nickel                          | mg/kg | 6          |
| Zinc                            | mg/kg | 110        |

| Moisture       |       |            |
|----------------|-------|------------|
| Our Reference  | UNITS | 324505-1   |
| Your Reference |       | QA01       |
| Date Sampled   |       | 29/05/2023 |
| Type of sample |       | Soil       |
| Date prepared  | -     | 01/06/2023 |
| Date analysed  | -     | 02/06/2023 |
| Moisture       | %     | 22         |

| Asbestos ID - soils NEPM - ASB-001    |        |                                                                                   |
|---------------------------------------|--------|-----------------------------------------------------------------------------------|
| Our Reference                         |        | 324505-1                                                                          |
| Your Reference                        | UNITS  | QA01                                                                              |
| Date Sampled                          |        | 29/05/2023                                                                        |
| Type of sample                        |        | Soil                                                                              |
| Date analysed                         | -      | 02/06/2023                                                                        |
| Sample mass tested                    | g      | 1,022.5                                                                           |
| Sample Description                    | -      | Brown coarse-grained soil & rocks                                                 |
| Asbestos ID in soil (AS4964) >0.1g/kg | -      | No asbestos detected at reporting limit of 0.1g/kg<br><br>Organic fibres detected |
| Trace Analysis                        | -      | No asbestos detected                                                              |
| Total Asbestos <sup>#1</sup>          | g/kg   | <0.1                                                                              |
| Asbestos ID in soil <0.1g/kg*         | -      | No visible asbestos detected                                                      |
| ACM >7mm Estimation*                  | g      | —                                                                                 |
| FA and AF Estimation*                 | g      | —                                                                                 |
| ACM >7mm Estimation*                  | %(w/w) | <0.01                                                                             |
| FA and AF Estimation*#2               | %(w/w) | <0.001                                                                            |



| PFAS in Soils Extended                            |       |            |
|---------------------------------------------------|-------|------------|
| Our Reference                                     |       | 324505-1   |
| Your Reference                                    | UNITS | QA01       |
| Date Sampled                                      |       | 29/05/2023 |
| Type of sample                                    |       | Soil       |
| Date prepared                                     | -     | 02/06/2023 |
| Date analysed                                     | -     | 02/06/2023 |
| Perfluorobutanesulfonic acid                      | µg/kg | <0.1       |
| Perfluoropentanesulfonic acid                     | µg/kg | <0.1       |
| Perfluorohexanesulfonic acid - PFHxS              | µg/kg | <0.1       |
| Perfluoroheptanesulfonic acid                     | µg/kg | <0.1       |
| Perfluorooctanesulfonic acid PFOS                 | µg/kg | 0.7        |
| Perfluorodecanesulfonic acid                      | µg/kg | <0.2       |
| Perfluorobutanoic acid                            | µg/kg | <0.2       |
| Perfluoropentanoic acid                           | µg/kg | <0.2       |
| Perfluorohexanoic acid                            | µg/kg | <0.1       |
| Perfluoroheptanoic acid                           | µg/kg | <0.1       |
| Perfluorooctanoic acid PFOA                       | µg/kg | <0.1       |
| Perfluorononanoic acid                            | µg/kg | <0.1       |
| Perfluorodecanoic acid                            | µg/kg | <0.5       |
| Perfluoroundecanoic acid                          | µg/kg | <0.5       |
| Perfluorododecanoic acid                          | µg/kg | <0.5       |
| Perfluorotridecanoic acid                         | µg/kg | <0.5       |
| Perfluorotetradecanoic acid                       | µg/kg | <5         |
| 4:2 FTS                                           | µg/kg | <0.1       |
| 6:2 FTS                                           | µg/kg | <0.1       |
| 8:2 FTS                                           | µg/kg | <0.2       |
| 10:2 FTS                                          | µg/kg | <0.2       |
| Perfluorooctane sulfonamide                       | µg/kg | <1         |
| N-Methyl perfluorooctane sulfonamide              | µg/kg | <1         |
| N-Ethyl perfluorooctanesulfonamide                | µg/kg | <1         |
| N-Me perfluorooctanesulfonamid oethanol           | µg/kg | <1         |
| N-Et perfluorooctanesulfonamid oethanol           | µg/kg | <5         |
| MePerfluorooctanesulf- amid oacetic acid          | µg/kg | <0.2       |
| EtPerfluorooctanesulf amid oacetic acid           | µg/kg | <0.2       |
| Surrogate <sup>13</sup> C <sub>8</sub> PFOS       | %     | 98         |
| Surrogate <sup>13</sup> C <sub>2</sub> PFOA       | %     | 100        |
| Extracted ISTD <sup>13</sup> C <sub>3</sub> PFBS  | %     | 86         |
| Extracted ISTD <sup>18</sup> O <sub>2</sub> PFHxS | %     | 88         |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOS  | %     | 90         |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFBA  | %     | 85         |

| PFAS in Soils Extended                             |       |            |
|----------------------------------------------------|-------|------------|
| Our Reference                                      |       | 324505-1   |
| Your Reference                                     | UNITS | QA01       |
| Date Sampled                                       |       | 29/05/2023 |
| Type of sample                                     |       | Soil       |
| Extracted ISTD <sup>13</sup> C <sub>3</sub> PFPeA  | %     | 92         |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFHxA  | %     | 90         |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFHpA  | %     | 86         |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOA   | %     | 96         |
| Extracted ISTD <sup>13</sup> C <sub>5</sub> PFNA   | %     | 92         |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFDA   | %     | 100        |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFUnDA | %     | 94         |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFDoDA | %     | 108        |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFTeDA | %     | 96         |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> 4:2FTS | %     | 92         |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> 6:2FTS | %     | 125        |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> 8:2FTS | %     | 150        |
| Extracted ISTD <sup>13</sup> C <sub>8</sub> FOSA   | %     | 86         |
| Extracted ISTD d <sub>3</sub> N MeFOSA             | %     | 80         |
| Extracted ISTD d <sub>5</sub> N EtFOSA             | %     | 83         |
| Extracted ISTD d <sub>7</sub> N MeFOSE             | %     | 87         |
| Extracted ISTD d <sub>9</sub> N EtFOSE             | %     | 93         |
| Extracted ISTD d <sub>3</sub> N MeFOSAA            | %     | 95         |
| Extracted ISTD d <sub>5</sub> N EtFOSAA            | %     | 89         |
| Total Positive PFHxS & PFOS                        | µg/kg | 0.7        |
| Total Positive PFOS & PFOA                         | µg/kg | 0.7        |
| Total Positive PFAS                                | µg/kg | 0.7        |

| Method ID         | Methodology Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ASB-001</b>    | Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ASB-001</b>    | <p>Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004.</p> <p>Results reported denoted with * are outside our scope of NATA accreditation.</p> <p><b>NOTE #1</b> Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM &gt;7mm, &lt;7mm and FA/AF)</p> <p><b>NOTE #2</b> The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.</p> <p>Estimation = Estimated asbestos weight</p> <p>Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.</p> |
| <b>Inorg-008</b>  | Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Metals-020</b> | Determination of various metals by ICP-AES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Metals-021</b> | Determination of Mercury by Cold Vapour AAS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Org-020</b>    | <p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.</p> <p>F2 = (&gt;C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Org-020</b>    | <p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.</p> <p>F2 = (&gt;C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.</p> <p>Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (&gt;C10-C40).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Org-021</b>    | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Method ID          | Methodology Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Org-021</b>     | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.<br>Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Org-022/025</b> | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Org-022/025</b> | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS.<br><br>Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Org-022/025</b> | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.<br>For soil results:-<br>1. 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present.<br>2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL.<br>3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above.<br>Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs. |
| <b>Org-023</b>     | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Org-023</b>     | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Org-023</b>     | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.<br>Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Method ID      | Methodology Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Org-029</b> | <p>Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3.</p> <p>Analysis is undertaken with LC-MS/MS.</p> <p>PFAS results include the sum of branched and linear isomers where applicable.</p> <p>Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components.</p> <p>Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.</p> |



| QUALITY CONTROL: VOCs in soil |       |     |         |            | Duplicate |            |            | Spike Recovery % |            |      |
|-------------------------------|-------|-----|---------|------------|-----------|------------|------------|------------------|------------|------|
| Test Description              | Units | PQL | Method  | Blank      | #         | Base       | Dup.       | RPD              | LCS-1      | [NT] |
| Date extracted                | -     |     |         | 01/06/2023 | 1         | 01/06/2023 | 01/06/2023 |                  | 01/06/2023 | [NT] |
| Date analysed                 | -     |     |         | 02/06/2023 | 1         | 02/06/2023 | 02/06/2023 |                  | 02/06/2023 | [NT] |
| Dichlorodifluoromethane       | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| Chloromethane                 | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| Vinyl Chloride                | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| Bromomethane                  | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| Chloroethane                  | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| Trichlorofluoromethane        | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| 1,1-Dichloroethene            | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| trans-1,2-dichloroethene      | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| 1,1-dichloroethane            | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | 136        | [NT] |
| cis-1,2-dichloroethene        | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| bromochloromethane            | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| chloroform                    | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | 134        | [NT] |
| 2,2-dichloropropane           | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| 1,2-dichloroethane            | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | 119        | [NT] |
| 1,1,1-trichloroethane         | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | 138        | [NT] |
| 1,1-dichloropropene           | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| Cyclohexane                   | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| carbon tetrachloride          | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| Benzene                       | mg/kg | 0.2 | Org-023 | <0.2       | 1         | <0.2       | <0.2       | 0                | [NT]       | [NT] |
| dibromomethane                | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| 1,2-dichloropropane           | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| trichloroethene               | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | 117        | [NT] |
| bromodichloromethane          | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | 135        | [NT] |
| trans-1,3-dichloropropene     | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| cis-1,3-dichloropropene       | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| 1,1,2-trichloroethane         | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| Toluene                       | mg/kg | 0.5 | Org-023 | <0.5       | 1         | <0.5       | <0.5       | 0                | [NT]       | [NT] |
| 1,3-dichloropropane           | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| dibromochloromethane          | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | 135        | [NT] |
| 1,2-dibromoethane             | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| tetrachloroethene             | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | 114        | [NT] |
| 1,1,1,2-tetrachloroethane     | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| chlorobenzene                 | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| Ethylbenzene                  | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| bromoform                     | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| m+p-xylene                    | mg/kg | 2   | Org-023 | <2         | 1         | <2         | <2         | 0                | [NT]       | [NT] |
| styrene                       | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| 1,1,2,2-tetrachloroethane     | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |

| QUALITY CONTROL: VOCs in soil    |       |     |         |       | Duplicate |      |      | Spike Recovery % |       |      |
|----------------------------------|-------|-----|---------|-------|-----------|------|------|------------------|-------|------|
| Test Description                 | Units | PQL | Method  | Blank | #         | Base | Dup. | RPD              | LCS-1 | [NT] |
| o-Xylene                         | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| 1,2,3-trichloropropane           | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| isopropylbenzene                 | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| bromobenzene                     | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| n-propyl benzene                 | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| 2-chlorotoluene                  | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| 4-chlorotoluene                  | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| 1,3,5-trimethyl benzene          | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| tert-butyl benzene               | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| 1,2,4-trimethyl benzene          | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| 1,3-dichlorobenzene              | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| sec-butyl benzene                | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| 1,4-dichlorobenzene              | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| 4-isopropyl toluene              | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| 1,2-dichlorobenzene              | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| n-butyl benzene                  | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| 1,2-dibromo-3-chloropropane      | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| 1,2,4-trichlorobenzene           | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| hexachlorobutadiene              | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| 1,2,3-trichlorobenzene           | mg/kg | 1   | Org-023 | <1    | 1         | <1   | <1   | 0                | [NT]  | [NT] |
| Surrogate Dibromofluorometha     | %     |     | Org-023 | 110   | 1         | 111  | 111  | 0                | 105   | [NT] |
| Surrogate aaa-Trifluorotoluene   | %     |     | Org-023 | 112   | 1         | 96   | 98   | 2                | 93    | [NT] |
| Surrogate Toluene-d <sub>8</sub> | %     |     | Org-023 | 104   | 1         | 105  | 106  | 1                | 107   | [NT] |
| Surrogate 4-Bromofluorobenzene   | %     |     | Org-023 | 103   | 1         | 104  | 102  | 2                | 103   | [NT] |

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil |       |     |         |            | Duplicate |            |            | Spike Recovery % |            |      |
|---------------------------------------------|-------|-----|---------|------------|-----------|------------|------------|------------------|------------|------|
| Test Description                            | Units | PQL | Method  | Blank      | #         | Base       | Dup.       | RPD              | LCS-1      | [NT] |
| Date extracted                              | -     |     |         | 01/06/2023 | 1         | 01/06/2023 | 01/06/2023 |                  | 01/06/2023 | [NT] |
| Date analysed                               | -     |     |         | 02/06/2023 | 1         | 02/06/2023 | 02/06/2023 |                  | 02/06/2023 | [NT] |
| TRH C <sub>6</sub> - C <sub>9</sub>         | mg/kg | 25  | Org-023 | <25        | 1         | <25        | <25        | 0                | 128        | [NT] |
| TRH C <sub>6</sub> - C <sub>10</sub>        | mg/kg | 25  | Org-023 | <25        | 1         | <25        | <25        | 0                | 128        | [NT] |
| Benzene                                     | mg/kg | 0.2 | Org-023 | <0.2       | 1         | <0.2       | <0.2       | 0                | 133        | [NT] |
| Toluene                                     | mg/kg | 0.5 | Org-023 | <0.5       | 1         | <0.5       | <0.5       | 0                | 131        | [NT] |
| Ethylbenzene                                | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | 123        | [NT] |
| m+p-xylene                                  | mg/kg | 2   | Org-023 | <2         | 1         | <2         | <2         | 0                | 127        | [NT] |
| o-Xylene                                    | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | 131        | [NT] |
| Naphthalene                                 | mg/kg | 1   | Org-023 | <1         | 1         | <1         | <1         | 0                | [NT]       | [NT] |
| Surrogate aaa-Trifluorotoluene              | %     |     | Org-023 | 112        | 1         | 96         | 98         | 2                | 117        | [NT] |

| QUALITY CONTROL: svTRH (C10-C40) in Soil |       |     |         |            | Duplicate |            |            | Spike Recovery % |            |      |
|------------------------------------------|-------|-----|---------|------------|-----------|------------|------------|------------------|------------|------|
| Test Description                         | Units | PQL | Method  | Blank      | #         | Base       | Dup.       | RPD              | LCS-1      | [NT] |
| Date extracted                           | -     |     |         | 01/06/2023 | 1         | 01/06/2023 | 01/06/2023 |                  | 01/06/2023 | [NT] |
| Date analysed                            | -     |     |         | 01/06/2023 | 1         | 02/06/2023 | 02/06/2023 |                  | 01/06/2023 | [NT] |
| TRH C <sub>10</sub> - C <sub>14</sub>    | mg/kg | 50  | Org-020 | <50        | 1         | <50        | <50        | 0                | 111        | [NT] |
| TRH C <sub>15</sub> - C <sub>28</sub>    | mg/kg | 100 | Org-020 | <100       | 1         | <100       | <100       | 0                | 114        | [NT] |
| TRH C <sub>29</sub> - C <sub>36</sub>    | mg/kg | 100 | Org-020 | <100       | 1         | 140        | 160        | 13               | 100        | [NT] |
| TRH >C <sub>10</sub> -C <sub>16</sub>    | mg/kg | 50  | Org-020 | <50        | 1         | <50        | <50        | 0                | 111        | [NT] |
| TRH >C <sub>16</sub> -C <sub>34</sub>    | mg/kg | 100 | Org-020 | <100       | 1         | 170        | 200        | 16               | 114        | [NT] |
| TRH >C <sub>34</sub> -C <sub>40</sub>    | mg/kg | 100 | Org-020 | <100       | 1         | <100       | <100       | 0                | 100        | [NT] |
| Surrogate o-Terphenyl                    | %     |     | Org-020 | 90         | 1         | 91         | 93         | 2                | 95         | [NT] |

| QUALITY CONTROL: PAHs in Soil |       |      |             |            | Duplicate |            |            | Spike Recovery % |            |      |
|-------------------------------|-------|------|-------------|------------|-----------|------------|------------|------------------|------------|------|
| Test Description              | Units | PQL  | Method      | Blank      | #         | Base       | Dup.       | RPD              | LCS-1      | [NT] |
| Date extracted                | -     |      |             | 01/06/2023 | 1         | 01/06/2023 | 01/06/2023 |                  | 01/06/2023 | [NT] |
| Date analysed                 | -     |      |             | 02/06/2023 | 1         | 02/06/2023 | 02/06/2023 |                  | 02/06/2023 | [NT] |
| Naphthalene                   | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 84         | [NT] |
| Acenaphthylene                | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Acenaphthene                  | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 85         | [NT] |
| Fluorene                      | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 84         | [NT] |
| Phenanthrene                  | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | <0.1       | 0.1        | 0                | 88         | [NT] |
| Anthracene                    | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Fluoranthene                  | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | 0.1        | 0.3        | 100              | 86         | [NT] |
| Pyrene                        | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | 0.1        | 0.3        | 100              | 89         | [NT] |
| Benzo(a)anthracene            | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | 0.1        | 0.2        | 67               | [NT]       | [NT] |
| Chrysene                      | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | <0.1       | 0.2        | 67               | 75         | [NT] |
| Benzo(b,j+k)fluoranthene      | mg/kg | 0.2  | Org-022/025 | <0.2       | 1         | <0.2       | 0.3        | 40               | [NT]       | [NT] |
| Benzo(a)pyrene                | mg/kg | 0.05 | Org-022/025 | <0.05      | 1         | 0.08       | 0.2        | 86               | 94         | [NT] |
| Indeno(1,2,3-c,d)pyrene       | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | <0.1       | 0.1        | 0                | [NT]       | [NT] |
| Dibenzo(a,h)anthracene        | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Benzo(g,h,i)perylene          | mg/kg | 0.1  | Org-022/025 | <0.1       | 1         | <0.1       | 0.1        | 0                | [NT]       | [NT] |
| Surrogate p-Terphenyl-d14     | %     |      | Org-022/025 | 96         | 1         | 89         | 95         | 7                | 93         | [NT] |



| QUALITY CONTROL: Organochlorine Pesticides in soil |       |     |             |            | Duplicate |            |            | Spike Recovery % |            |      |
|----------------------------------------------------|-------|-----|-------------|------------|-----------|------------|------------|------------------|------------|------|
| Test Description                                   | Units | PQL | Method      | Blank      | #         | Base       | Dup.       | RPD              | LCS-1      | [NT] |
| Date extracted                                     | -     |     |             | 01/06/2023 | 1         | 01/06/2023 | 01/06/2023 |                  | 01/06/2023 | [NT] |
| Date analysed                                      | -     |     |             | 02/06/2023 | 1         | 02/06/2023 | 02/06/2023 |                  | 02/06/2023 | [NT] |
| alpha-BHC                                          | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 88         | [NT] |
| HCB                                                | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| beta-BHC                                           | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 82         | [NT] |
| gamma-BHC                                          | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Heptachlor                                         | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 73         | [NT] |
| delta-BHC                                          | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Aldrin                                             | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 85         | [NT] |
| Heptachlor Epoxide                                 | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 80         | [NT] |
| gamma-Chlordane                                    | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| alpha-chlordane                                    | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Endosulfan I                                       | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| pp-DDE                                             | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 92         | [NT] |
| Dieldrin                                           | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 100        | [NT] |
| Endrin                                             | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 72         | [NT] |
| Endosulfan II                                      | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| pp-DDD                                             | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 78         | [NT] |
| Endrin Aldehyde                                    | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| pp-DDT                                             | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Endosulfan Sulphate                                | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | 87         | [NT] |
| Methoxychlor                                       | mg/kg | 0.1 | Org-022/025 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Surrogate TCMX                                     | %     |     | Org-022/025 | 108        | 1         | 99         | 105        | 6                | 100        | [NT] |

Client Reference: 65196, Cabramatta

| QUALITY CONTROL: PCBs in Soil |       |     |         |            | Duplicate |            |            | Spike Recovery % |            |      |
|-------------------------------|-------|-----|---------|------------|-----------|------------|------------|------------------|------------|------|
| Test Description              | Units | PQL | Method  | Blank      | #         | Base       | Dup.       | RPD              | LCS-1      | [NT] |
| Date extracted                | -     |     |         | 01/06/2023 | 1         | 01/06/2023 | 01/06/2023 |                  | 01/06/2023 | [NT] |
| Date analysed                 | -     |     |         | 02/06/2023 | 1         | 02/06/2023 | 02/06/2023 |                  | 02/06/2023 | [NT] |
| Aroclor 1016                  | mg/kg | 0.1 | Org-021 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Aroclor 1221                  | mg/kg | 0.1 | Org-021 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Aroclor 1232                  | mg/kg | 0.1 | Org-021 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Aroclor 1242                  | mg/kg | 0.1 | Org-021 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Aroclor 1248                  | mg/kg | 0.1 | Org-021 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Aroclor 1254                  | mg/kg | 0.1 | Org-021 | <0.1       | 1         | <0.1       | <0.1       | 0                | 133        | [NT] |
| Aroclor 1260                  | mg/kg | 0.1 | Org-021 | <0.1       | 1         | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Surrogate TCMX                | %     |     | Org-021 | 108        | 1         | 99         | 105        | 6                | 100        | [NT] |

| QUALITY CONTROL: Acid Extractable metals in soil |       |     |            |            | Duplicate |            |            | Spike Recovery % |            |      |
|--------------------------------------------------|-------|-----|------------|------------|-----------|------------|------------|------------------|------------|------|
| Test Description                                 | Units | PQL | Method     | Blank      | #         | Base       | Dup.       | RPD              | LCS-1      | [NT] |
| Date prepared                                    | -     |     |            | 01/06/2023 | 1         | 01/06/2023 | 01/06/2023 |                  | 01/06/2023 | [NT] |
| Date analysed                                    | -     |     |            | 02/06/2023 | 1         | 02/06/2023 | 02/06/2023 |                  | 02/06/2023 | [NT] |
| Arsenic                                          | mg/kg | 4   | Metals-020 | <4         | 1         | 12         | 9          | 29               | 105        | [NT] |
| Cadmium                                          | mg/kg | 0.4 | Metals-020 | <0.4       | 1         | <0.4       | <0.4       | 0                | 104        | [NT] |
| Chromium                                         | mg/kg | 1   | Metals-020 | <1         | 1         | 27         | 23         | 16               | 112        | [NT] |
| Copper                                           | mg/kg | 1   | Metals-020 | <1         | 1         | 28         | 29         | 4                | 111        | [NT] |
| Lead                                             | mg/kg | 1   | Metals-020 | <1         | 1         | 74         | 71         | 4                | 112        | [NT] |
| Mercury                                          | mg/kg | 0.1 | Metals-021 | <0.1       | 1         | <0.1       | <0.1       | 0                | 113        | [NT] |
| Nickel                                           | mg/kg | 1   | Metals-020 | <1         | 1         | 6          | 6          | 0                | 112        | [NT] |
| Zinc                                             | mg/kg | 1   | Metals-020 | <1         | 1         | 110        | 97         | 13               | 112        | [NT] |

| QUALITY CONTROL: PFAS in Soils Extended     |       |     |         |            | Duplicate |            |            | Spike Recovery % |            |      |
|---------------------------------------------|-------|-----|---------|------------|-----------|------------|------------|------------------|------------|------|
| Test Description                            | Units | PQL | Method  | Blank      | #         | Base       | Dup.       | RPD              | LCS-1      | [NT] |
| Date prepared                               | -     |     |         | 02/06/2023 | 1         | 02/06/2023 | 02/06/2023 |                  | 02/06/2023 | [NT] |
| Date analysed                               | -     |     |         | 02/06/2023 | 1         | 02/06/2023 | 02/06/2023 |                  | 02/06/2023 | [NT] |
| Perfluorobutanesulfonic acid                | µg/kg | 0.1 | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 104        | [NT] |
| Perfluoropentanesulfonic acid               | µg/kg | 0.1 | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 97         | [NT] |
| Perfluorohexanesulfonic acid - PFHxS        | µg/kg | 0.1 | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 98         | [NT] |
| Perfluoroheptanesulfonic acid               | µg/kg | 0.1 | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 98         | [NT] |
| Perfluorooctanesulfonic acid PFOS           | µg/kg | 0.1 | Org-029 | <0.1       | 1         | 0.7        | 0.6        | 15               | 96         | [NT] |
| Perfluorodecanesulfonic acid                | µg/kg | 0.2 | Org-029 | <0.2       | 1         | <0.2       | <0.2       | 0                | 94         | [NT] |
| Perfluorobutanoic acid                      | µg/kg | 0.2 | Org-029 | <0.2       | 1         | <0.2       | <0.2       | 0                | 100        | [NT] |
| Perfluoropentanoic acid                     | µg/kg | 0.2 | Org-029 | <0.2       | 1         | <0.2       | <0.2       | 0                | 99         | [NT] |
| Perfluorohexanoic acid                      | µg/kg | 0.1 | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 100        | [NT] |
| Perfluoroheptanoic acid                     | µg/kg | 0.1 | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 95         | [NT] |
| Perfluorooctanoic acid PFOA                 | µg/kg | 0.1 | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 103        | [NT] |
| Perfluorononanoic acid                      | µg/kg | 0.1 | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 90         | [NT] |
| Perfluorodecanoic acid                      | µg/kg | 0.5 | Org-029 | <0.5       | 1         | <0.5       | <0.5       | 0                | 101        | [NT] |
| Perfluoroundecanoic acid                    | µg/kg | 0.5 | Org-029 | <0.5       | 1         | <0.5       | <0.5       | 0                | 102        | [NT] |
| Perfluorododecanoic acid                    | µg/kg | 0.5 | Org-029 | <0.5       | 1         | <0.5       | <0.5       | 0                | 103        | [NT] |
| Perfluorotridecanoic acid                   | µg/kg | 0.5 | Org-029 | <0.5       | 1         | <0.5       | <0.5       | 0                | 99         | [NT] |
| Perfluorotetradecanoic acid                 | µg/kg | 5   | Org-029 | <5         | 1         | <5         | <5         | 0                | 100        | [NT] |
| 4:2 FTS                                     | µg/kg | 0.1 | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 98         | [NT] |
| 6:2 FTS                                     | µg/kg | 0.1 | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 96         | [NT] |
| 8:2 FTS                                     | µg/kg | 0.2 | Org-029 | <0.2       | 1         | <0.2       | <0.2       | 0                | 99         | [NT] |
| 10:2 FTS                                    | µg/kg | 0.2 | Org-029 | <0.2       | 1         | <0.2       | <0.2       | 0                | 90         | [NT] |
| Perfluorooctane sulfonamide                 | µg/kg | 1   | Org-029 | <1         | 1         | <1         | <1         | 0                | 107        | [NT] |
| N-Methyl perfluorooctane sulfonamide        | µg/kg | 1   | Org-029 | <1         | 1         | <1         | <1         | 0                | 104        | [NT] |
| N-Ethyl perfluorooctanesulfonamide          | µg/kg | 1   | Org-029 | <1         | 1         | <1         | <1         | 0                | 100        | [NT] |
| N-Me perfluorooctanesulfonamidethanol       | µg/kg | 1   | Org-029 | <1         | 1         | <1         | <1         | 0                | 96         | [NT] |
| N-Et perfluorooctanesulfonamidethanol       | µg/kg | 5   | Org-029 | <5         | 1         | <5         | <5         | 0                | 99         | [NT] |
| MePerfluorooctanesulfonamidacetic acid      | µg/kg | 0.2 | Org-029 | <0.2       | 1         | <0.2       | <0.2       | 0                | 103        | [NT] |
| EtPerfluorooctanesulfonamidacetic acid      | µg/kg | 0.2 | Org-029 | <0.2       | 1         | <0.2       | <0.2       | 0                | 97         | [NT] |
| Surrogate <sup>13</sup> C <sub>8</sub> PFOS | %     |     | Org-029 | 100        | 1         | 98         | 98         | 0                | 103        | [NT] |
| Surrogate <sup>13</sup> C <sub>2</sub> PFOA | %     |     | Org-029 | 100        | 1         | 100        | 104        | 4                | 103        | [NT] |

| QUALITY CONTROL: PFAS in Soils Extended            |       |     |         |       | Duplicate |      |      | Spike Recovery % |       |      |
|----------------------------------------------------|-------|-----|---------|-------|-----------|------|------|------------------|-------|------|
| Test Description                                   | Units | PQL | Method  | Blank | #         | Base | Dup. | RPD              | LCS-1 | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>3</sub> PFBS   | %     |     | Org-029 | 98    | 1         | 86   | 86   | 0                | 97    | [NT] |
| Extracted ISTD <sup>18</sup> O <sub>2</sub> PFHxS  | %     |     | Org-029 | 99    | 1         | 88   | 95   | 8                | 100   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOS   | %     |     | Org-029 | 100   | 1         | 90   | 92   | 2                | 102   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFBA   | %     |     | Org-029 | 104   | 1         | 85   | 89   | 5                | 102   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>3</sub> PFPeA  | %     |     | Org-029 | 105   | 1         | 92   | 97   | 5                | 104   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFHxA  | %     |     | Org-029 | 106   | 1         | 90   | 96   | 6                | 105   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFHpA  | %     |     | Org-029 | 100   | 1         | 86   | 90   | 5                | 101   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOA   | %     |     | Org-029 | 110   | 1         | 96   | 97   | 1                | 103   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>5</sub> PFNA   | %     |     | Org-029 | 103   | 1         | 92   | 94   | 2                | 103   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFDA   | %     |     | Org-029 | 110   | 1         | 100  | 104  | 4                | 108   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFUnDA | %     |     | Org-029 | 110   | 1         | 94   | 97   | 3                | 101   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFDoDA | %     |     | Org-029 | 113   | 1         | 108  | 115  | 6                | 105   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFTeDA | %     |     | Org-029 | 115   | 1         | 96   | 101  | 5                | 113   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> 4:2FTS | %     |     | Org-029 | 109   | 1         | 92   | 104  | 12               | 110   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> 6:2FTS | %     |     | Org-029 | 115   | 1         | 125  | 131  | 5                | 111   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> 8:2FTS | %     |     | Org-029 | 118   | 1         | 150  | 161  | 7                | 119   | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>8</sub> FOSA   | %     |     | Org-029 | 104   | 1         | 86   | 88   | 2                | 98    | [NT] |
| Extracted ISTD d <sub>3</sub> N MeFOSA             | %     |     | Org-029 | 102   | 1         | 80   | 84   | 5                | 102   | [NT] |
| Extracted ISTD d <sub>5</sub> N EtFOSA             | %     |     | Org-029 | 104   | 1         | 83   | 87   | 5                | 103   | [NT] |
| Extracted ISTD d <sub>7</sub> N MeFOSE             | %     |     | Org-029 | 99    | 1         | 87   | 89   | 2                | 99    | [NT] |



| QUALITY CONTROL: PFAS in Soils Extended |       |     |         |       | Duplicate |      |      | Spike Recovery % |       |      |
|-----------------------------------------|-------|-----|---------|-------|-----------|------|------|------------------|-------|------|
| Test Description                        | Units | PQL | Method  | Blank | #         | Base | Dup. | RPD              | LCS-1 | [NT] |
| Extracted ISTD d <sub>9</sub> N EtFOSE  | %     |     | Org-029 | 106   | 1         | 93   | 96   | 3                | 105   | [NT] |
| Extracted ISTD d <sub>3</sub> N MeFOSAA | %     |     | Org-029 | 103   | 1         | 95   | 98   | 3                | 97    | [NT] |
| Extracted ISTD d <sub>5</sub> N EtFOSAA | %     |     | Org-029 | 105   | 1         | 89   | 101  | 13               | 98    | [NT] |

| Result Definitions |                                           |
|--------------------|-------------------------------------------|
| <b>NT</b>          | Not tested                                |
| <b>NA</b>          | Test not required                         |
| <b>INS</b>         | Insufficient sample for this test         |
| <b>PQL</b>         | Practical Quantitation Limit              |
| <b>&lt;</b>        | Less than                                 |
| <b>&gt;</b>        | Greater than                              |
| <b>RPD</b>         | Relative Percent Difference               |
| <b>LCS</b>         | Laboratory Control Sample                 |
| <b>NS</b>          | Not specified                             |
| <b>NEPM</b>        | National Environmental Protection Measure |
| <b>NR</b>          | Not Reported                              |

## Quality Control Definitions

|                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Blank</b>                                                                                                                                                                                                                                                   | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.           |
| <b>Duplicate</b>                                                                                                                                                                                                                                               | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.                                                 |
| <b>Matrix Spike</b>                                                                                                                                                                                                                                            | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. |
| <b>LCS (Laboratory Control Sample)</b>                                                                                                                                                                                                                         | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.                                |
| <b>Surrogate Spike</b>                                                                                                                                                                                                                                         | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.                          |
| Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.     |                                                                                                                                                                                                                                  |
| The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016. |                                                                                                                                                                                                                                  |
| Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2                                                                                                                         |                                                                                                                                                                                                                                  |

## Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

## Report Comments

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Asbestos-ID in soil: NEPM

This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

2



## SAMPLE RECEIPT ADVICE

### Client Details

|                  |                            |
|------------------|----------------------------|
| <b>Client</b>    | JBS & G (NSW & WA) Pty Ltd |
| <b>Attention</b> | Alison Smith               |

### Sample Login Details

|                                             |                   |
|---------------------------------------------|-------------------|
| <b>Your reference</b>                       | 65196, Cabramatta |
| <b>Envirolab Reference</b>                  | 324505            |
| <b>Date Sample Received</b>                 | 31/05/2023        |
| <b>Date Instructions Received</b>           | 31/05/2023        |
| <b>Date Results Expected to be Reported</b> | 07/06/2023        |

### Sample Condition

|                                                               |          |
|---------------------------------------------------------------|----------|
| <b>Samples received in appropriate condition for analysis</b> | Yes      |
| <b>No. of Samples Provided</b>                                | 2 Soil   |
| <b>Turnaround Time Requested</b>                              | Standard |
| <b>Temperature on Receipt (°C)</b>                            | 18       |
| <b>Cooling Method</b>                                         | Ice      |
| <b>Sampling Date Provided</b>                                 | YES      |

### Comments

Nil

Please direct any queries to:

#### Aileen Hie

**Phone:** 02 9910 6200  
**Fax:** 02 9910 6201  
**Email:** ahie@envirolab.com.au

#### Jacinta Hurst

**Phone:** 02 9910 6200  
**Fax:** 02 9910 6201  
**Email:** jhurst@envirolab.com.au

Analysis Underway, details on the following page:



**Envirolab Services Pty Ltd**

ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067

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customerservice@envirolab.com.au

www.envirolab.com.au

| Sample ID | VOCs in soil | VTRH(C6-C10)/BTEXN in Soil | svTRH (C10-C40) in Soil | PAHs in Soil | Organochlorine Pesticides in soil | PCBs in Soil | Acid Extractable metals in soil | Asbestos ID - soils NEPM - ASB-001 | PFAS in Soils Extended | On Hold |
|-----------|--------------|----------------------------|-------------------------|--------------|-----------------------------------|--------------|---------------------------------|------------------------------------|------------------------|---------|
| QA01      | ✓            | ✓                          | ✓                       | ✓            | ✓                                 | ✓            | ✓                               | ✓                                  | ✓                      |         |
| QA02      |              |                            |                         |              |                                   |              |                                 |                                    |                        | ✓       |

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

### Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

## **CERTIFICATE OF ANALYSIS 324973**

### **Client Details**

|                  |                                            |
|------------------|--------------------------------------------|
| <b>Client</b>    | JBS & G (NSW & WA) Pty Ltd                 |
| <b>Attention</b> | Alison Smith                               |
| <b>Address</b>   | Level 1, 50 Margaret St, Sydney, NSW, 2000 |

### **Sample Details**

|                                             |                                 |
|---------------------------------------------|---------------------------------|
| <b>Your Reference</b>                       | <b><u>65196, Cabramatta</u></b> |
| <b>Number of Samples</b>                    | 1 Water                         |
| <b>Date samples received</b>                | 06/06/2023                      |
| <b>Date completed instructions received</b> | 06/06/2023                      |

### **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.  
Samples were analysed as received from the client. Results relate specifically to the samples as received.  
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

### **Report Details**

|                                                                                                             |            |
|-------------------------------------------------------------------------------------------------------------|------------|
| <b>Date results requested by</b>                                                                            | 14/06/2023 |
| <b>Date of Issue</b>                                                                                        | 14/06/2023 |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full.                       |            |
| Accredited for compliance with ISO/IEC 17025 - Testing. <b>Tests not covered by NATA are denoted with *</b> |            |

#### **Results Approved By**

Dragana Tomas, Senior Chemist  
Hannah Nguyen, Metals Supervisor  
Liam Timmins, Organics Supervisor  
Phalak Inthakesone, Organics Development Manager, Sydney

#### **Authorised By**

Nancy Zhang, Laboratory Manager

| VOCs in water             |       |            |
|---------------------------|-------|------------|
| Our Reference             |       | 324973-1   |
| Your Reference            | UNITS | QA01       |
| Date Sampled              |       | 05/06/2023 |
| Type of sample            |       | Water      |
| Date extracted            | -     | 09/06/2023 |
| Date analysed             | -     | 13/06/2023 |
| Dichlorodifluoromethane   | µg/L  | <10        |
| Chloromethane             | µg/L  | <10        |
| Vinyl Chloride            | µg/L  | <10        |
| Bromomethane              | µg/L  | <10        |
| Chloroethane              | µg/L  | <10        |
| Trichlorofluoromethane    | µg/L  | <10        |
| 1,1-Dichloroethene        | µg/L  | <1         |
| Trans-1,2-dichloroethene  | µg/L  | <1         |
| 1,1-dichloroethane        | µg/L  | <1         |
| Cis-1,2-dichloroethene    | µg/L  | <1         |
| Bromochloromethane        | µg/L  | <1         |
| Chloroform                | µg/L  | <1         |
| 2,2-dichloropropane       | µg/L  | <1         |
| 1,2-dichloroethane        | µg/L  | <1         |
| 1,1,1-trichloroethane     | µg/L  | <1         |
| 1,1-dichloropropene       | µg/L  | <1         |
| Cyclohexane               | µg/L  | <1         |
| Carbon tetrachloride      | µg/L  | <1         |
| Benzene                   | µg/L  | <1         |
| Dibromomethane            | µg/L  | <1         |
| 1,2-dichloropropane       | µg/L  | <1         |
| Trichloroethene           | µg/L  | <1         |
| Bromodichloromethane      | µg/L  | <1         |
| trans-1,3-dichloropropene | µg/L  | <1         |
| cis-1,3-dichloropropene   | µg/L  | <1         |
| 1,1,2-trichloroethane     | µg/L  | <1         |
| Toluene                   | µg/L  | <1         |
| 1,3-dichloropropane       | µg/L  | <1         |
| Dibromochloromethane      | µg/L  | <1         |
| 1,2-dibromoethane         | µg/L  | <1         |
| Tetrachloroethene         | µg/L  | <1         |
| 1,1,1,2-tetrachloroethane | µg/L  | <1         |
| Chlorobenzene             | µg/L  | <1         |
| Ethylbenzene              | µg/L  | <1         |

| VOCs in water                  |       |            |
|--------------------------------|-------|------------|
| Our Reference                  |       | 324973-1   |
| Your Reference                 | UNITS | QA01       |
| Date Sampled                   |       | 05/06/2023 |
| Type of sample                 |       | Water      |
| Bromoform                      | µg/L  | <1         |
| m+p-xylene                     | µg/L  | <2         |
| Styrene                        | µg/L  | <1         |
| 1,1,2,2-tetrachloroethane      | µg/L  | <1         |
| o-xylene                       | µg/L  | <1         |
| 1,2,3-trichloropropane         | µg/L  | <1         |
| Isopropylbenzene               | µg/L  | <1         |
| Bromobenzene                   | µg/L  | <1         |
| n-propyl benzene               | µg/L  | <1         |
| 2-chlorotoluene                | µg/L  | <1         |
| 4-chlorotoluene                | µg/L  | <1         |
| 1,3,5-trimethyl benzene        | µg/L  | <1         |
| Tert-butyl benzene             | µg/L  | <1         |
| 1,2,4-trimethyl benzene        | µg/L  | <1         |
| 1,3-dichlorobenzene            | µg/L  | <1         |
| Sec-butyl benzene              | µg/L  | <1         |
| 1,4-dichlorobenzene            | µg/L  | <1         |
| 4-isopropyl toluene            | µg/L  | <1         |
| 1,2-dichlorobenzene            | µg/L  | <1         |
| n-butyl benzene                | µg/L  | <1         |
| 1,2-dibromo-3-chloropropane    | µg/L  | <1         |
| 1,2,4-trichlorobenzene         | µg/L  | <1         |
| Hexachlorobutadiene            | µg/L  | <1         |
| 1,2,3-trichlorobenzene         | µg/L  | <1         |
| Surrogate Dibromofluoromethane | %     | 107        |
| Surrogate toluene-d8           | %     | 105        |
| Surrogate 4-BFB                | %     | 94         |



| vTRH in Water (C6-C9) NEPM           |       |            |
|--------------------------------------|-------|------------|
| Our Reference                        |       | 324973-1   |
| Your Reference                       | UNITS | QA01       |
| Date Sampled                         |       | 05/06/2023 |
| Type of sample                       |       | Water      |
| Date extracted                       | -     | 07/06/2023 |
| Date analysed                        | -     | 07/06/2023 |
| TRH C <sub>6</sub> - C <sub>9</sub>  | µg/L  | <10        |
| TRH C <sub>6</sub> - C <sub>10</sub> | µg/L  | <10        |
| Surrogate Dibromofluoromethane       | %     | 107        |
| Surrogate toluene-d8                 | %     | 105        |
| Surrogate 4-BFB                      | %     | 94         |

| svTRH (C10-C40) in Water               |       |            |
|----------------------------------------|-------|------------|
| Our Reference                          |       | 324973-1   |
| Your Reference                         | UNITS | QA01       |
| Date Sampled                           |       | 05/06/2023 |
| Type of sample                         |       | Water      |
| Date extracted                         | -     | 7/06/2023  |
| Date analysed                          | -     | 08/06/2023 |
| TRH C <sub>10</sub> - C <sub>14</sub>  | µg/L  | <50        |
| TRH C <sub>15</sub> - C <sub>28</sub>  | µg/L  | <100       |
| TRH C <sub>29</sub> - C <sub>36</sub>  | µg/L  | <100       |
| Total +ve TRH (C10-C36)                | µg/L  | <50        |
| TRH >C <sub>10</sub> - C <sub>16</sub> | µg/L  | <50        |
| TRH >C <sub>16</sub> - C <sub>34</sub> | µg/L  | <100       |
| TRH >C <sub>34</sub> - C <sub>40</sub> | µg/L  | <100       |
| Total +ve TRH (>C10-C40)               | µg/L  | <50        |
| Surrogate o-Terphenyl                  | %     | 75         |

| PAHs in Water                     |       |            |
|-----------------------------------|-------|------------|
| Our Reference                     |       | 324973-1   |
| Your Reference                    | UNITS | QA01       |
| Date Sampled                      |       | 05/06/2023 |
| Type of sample                    |       | Water      |
| Date extracted                    | -     | 07/06/2023 |
| Date analysed                     | -     | 08/06/2023 |
| Naphthalene                       | µg/L  | <0.2       |
| Acenaphthylene                    | µg/L  | <0.1       |
| Acenaphthene                      | µg/L  | <0.1       |
| Fluorene                          | µg/L  | <0.1       |
| Phenanthrene                      | µg/L  | <0.1       |
| Anthracene                        | µg/L  | <0.1       |
| Fluoranthene                      | µg/L  | <0.1       |
| Pyrene                            | µg/L  | <0.1       |
| Benzo(a)anthracene                | µg/L  | <0.1       |
| Chrysene                          | µg/L  | <0.1       |
| Benzo(b,j+k)fluoranthene          | µg/L  | <0.2       |
| Benzo(a)pyrene                    | µg/L  | <0.1       |
| Indeno(1,2,3-c,d)pyrene           | µg/L  | <0.1       |
| Dibenzo(a,h)anthracene            | µg/L  | <0.1       |
| Benzo(g,h,i)perylene              | µg/L  | <0.1       |
| Benzo(a)pyrene TEQ                | µg/L  | <0.5       |
| Total +ve PAH's                   | µg/L  | <0.1       |
| Surrogate <i>p</i> -Terphenyl-d14 | %     | 122        |

| HM in water - dissolved |       |            |
|-------------------------|-------|------------|
| Our Reference           |       | 324973-1   |
| Your Reference          | UNITS | QA01       |
| Date Sampled            |       | 05/06/2023 |
| Type of sample          |       | Water      |
| Date prepared           | -     | 07/06/2023 |
| Date analysed           | -     | 07/06/2023 |
| Arsenic-Dissolved       | µg/L  | 3          |
| Cadmium-Dissolved       | µg/L  | 0.3        |
| Chromium-Dissolved      | µg/L  | 2          |
| Copper-Dissolved        | µg/L  | 2          |
| Lead-Dissolved          | µg/L  | <1         |
| Mercury-Dissolved       | µg/L  | <0.05      |
| Nickel-Dissolved        | µg/L  | 37         |
| Zinc-Dissolved          | µg/L  | 110        |

| PFAS in Waters Extended                           |       |            |
|---------------------------------------------------|-------|------------|
| Our Reference                                     |       | 324973-1   |
| Your Reference                                    | UNITS | QA01       |
| Date Sampled                                      |       | 05/06/2023 |
| Type of sample                                    |       | Water      |
| Date prepared                                     | -     | 08/06/2023 |
| Date analysed                                     | -     | 08/06/2023 |
| Perfluorobutanesulfonic acid                      | µg/L  | <0.01      |
| Perfluoropentanesulfonic acid                     | µg/L  | <0.01      |
| Perfluorohexanesulfonic acid - PFHxS              | µg/L  | <0.01      |
| Perfluoroheptanesulfonic acid                     | µg/L  | <0.01      |
| Perfluorooctanesulfonic acid PFOS                 | µg/L  | <0.01      |
| Perfluorodecanesulfonic acid                      | µg/L  | <0.02      |
| Perfluorobutanoic acid                            | µg/L  | <0.02      |
| Perfluoropentanoic acid                           | µg/L  | <0.02      |
| Perfluorohexanoic acid                            | µg/L  | <0.01      |
| Perfluoroheptanoic acid                           | µg/L  | <0.01      |
| Perfluorooctanoic acid PFOA                       | µg/L  | <0.01      |
| Perfluorononanoic acid                            | µg/L  | <0.01      |
| Perfluorodecanoic acid                            | µg/L  | <0.02      |
| Perfluoroundecanoic acid                          | µg/L  | <0.02      |
| Perfluorododecanoic acid                          | µg/L  | <0.05      |
| Perfluorotridecanoic acid                         | µg/L  | <0.1       |
| Perfluorotetradecanoic acid                       | µg/L  | <0.5       |
| 4:2 FTS                                           | µg/L  | <0.01      |
| 6:2 FTS                                           | µg/L  | <0.01      |
| 8:2 FTS                                           | µg/L  | <0.02      |
| 10:2 FTS                                          | µg/L  | <0.02      |
| Perfluorooctane sulfonamide                       | µg/L  | <0.1       |
| N-Methyl perfluorooctane sulfonamide              | µg/L  | <0.05      |
| N-Ethyl perfluorooctanesulfonamide                | µg/L  | <0.1       |
| N-Me perfluorooctanesulfonamid oethanol           | µg/L  | <0.05      |
| N-Et perfluorooctanesulfonamid oethanol           | µg/L  | <0.5       |
| MePerfluorooctanesulf- amid oacetic acid          | µg/L  | <0.02      |
| EtPerfluorooctanesulf- amid oacetic acid          | µg/L  | <0.02      |
| Surrogate <sup>13</sup> C <sub>8</sub> PFOS       | %     | 98         |
| Surrogate <sup>13</sup> C <sub>2</sub> PFOA       | %     | 104        |
| Extracted ISTD <sup>13</sup> C <sub>3</sub> PFBS  | %     | 107        |
| Extracted ISTD <sup>18</sup> O <sub>2</sub> PFHxS | %     | 108        |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOS  | %     | 103        |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFBA  | %     | 97         |



| PFAS in Waters Extended                            |       |            |
|----------------------------------------------------|-------|------------|
| Our Reference                                      |       | 324973-1   |
| Your Reference                                     | UNITS | QA01       |
| Date Sampled                                       |       | 05/06/2023 |
| Type of sample                                     |       | Water      |
| Extracted ISTD <sup>13</sup> C <sub>3</sub> PFPeA  | %     | 104        |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFHxA  | %     | 102        |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFHpA  | %     | 99         |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOA   | %     | 104        |
| Extracted ISTD <sup>13</sup> C <sub>5</sub> PFNA   | %     | 105        |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFDA   | %     | 105        |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFUnDA | %     | 103        |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFDoDA | %     | 103        |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFTeDA | %     | 84         |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> 4:2FTS | %     | 97         |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> 6:2FTS | %     | 103        |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> 8:2FTS | %     | 100        |
| Extracted ISTD <sup>13</sup> C <sub>8</sub> FOSA   | %     | 108        |
| Extracted ISTD d <sub>3</sub> N MeFOSA             | %     | 101        |
| Extracted ISTD d <sub>5</sub> N EtFOSA             | %     | 104        |
| Extracted ISTD d <sub>7</sub> N MeFOSE             | %     | 113        |
| Extracted ISTD d <sub>9</sub> N EtFOSE             | %     | 109        |
| Extracted ISTD d <sub>3</sub> N MeFOSAA            | %     | 107        |
| Extracted ISTD d <sub>5</sub> N EtFOSAA            | %     | 107        |
| Total Positive PFHxS & PFOS                        | µg/L  | <0.01      |
| Total Positive PFOA & PFOS                         | µg/L  | <0.01      |
| Total Positive PFAS                                | µg/L  | <0.01      |

| Method ID          | Methodology Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Metals-021</b>  | Determination of Mercury by Cold Vapour AAS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Metals-022</b>  | Determination of various metals by ICP-MS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Org-020</b>     | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Org-022/025</b> | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Org-023</b>     | Water samples are analysed directly by purge and trap GC-MS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Org-023</b>     | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Org-029</b>     | <p>Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3.</p> <p>Analysis is undertaken with LC-MS/MS.</p> <p>PFAS results include the sum of branched and linear isomers where applicable.</p> <p>Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components.</p> <p>Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.</p> |

| QUALITY CONTROL: VOCs in water |       |     |         |            | Duplicate |      |      | Spike Recovery % |            |      |
|--------------------------------|-------|-----|---------|------------|-----------|------|------|------------------|------------|------|
| Test Description               | Units | PQL | Method  | Blank      | #         | Base | Dup. | RPD              | LCS-W3     | [NT] |
| Date extracted                 | -     |     |         | 09/06/2023 | [NT]      | [NT] | [NT] | [NT]             | 09/06/2023 | [NT] |
| Date analysed                  | -     |     |         | 13/06/2023 | [NT]      | [NT] | [NT] | [NT]             | 13/06/2023 | [NT] |
| Dichlorodifluoromethane        | µg/L  | 10  | Org-023 | <10        | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Chloromethane                  | µg/L  | 10  | Org-023 | <10        | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Vinyl Chloride                 | µg/L  | 10  | Org-023 | <10        | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Bromomethane                   | µg/L  | 10  | Org-023 | <10        | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Chloroethane                   | µg/L  | 10  | Org-023 | <10        | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Trichlorofluoromethane         | µg/L  | 10  | Org-023 | <10        | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| 1,1-Dichloroethene             | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Trans-1,2-dichloroethene       | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| 1,1-dichloroethane             | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | 100        | [NT] |
| Cis-1,2-dichloroethene         | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Bromochloromethane             | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Chloroform                     | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | 98         | [NT] |
| 2,2-dichloropropane            | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| 1,2-dichloroethane             | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | 105        | [NT] |
| 1,1,1-trichloroethane          | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | 92         | [NT] |
| 1,1-dichloropropene            | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Cyclohexane                    | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Carbon tetrachloride           | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Benzene                        | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Dibromomethane                 | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| 1,2-dichloropropane            | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Trichloroethene                | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | 106        | [NT] |
| Bromodichloromethane           | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | 93         | [NT] |
| trans-1,3-dichloropropene      | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| cis-1,3-dichloropropene        | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| 1,1,2-trichloroethane          | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Toluene                        | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| 1,3-dichloropropane            | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Dibromochloromethane           | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | 83         | [NT] |
| 1,2-dibromoethane              | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Tetrachloroethene              | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | 90         | [NT] |
| 1,1,1,2-tetrachloroethane      | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Chlorobenzene                  | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Ethylbenzene                   | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Bromoform                      | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| m+p-xylene                     | µg/L  | 2   | Org-023 | <2         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| Styrene                        | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |
| 1,1,2,2-tetrachloroethane      | µg/L  | 1   | Org-023 | <1         | [NT]      | [NT] | [NT] | [NT]             | [NT]       | [NT] |

| QUALITY CONTROL: VOCs in water |       |     |         |       | Duplicate |      |      | Spike Recovery % |        |      |
|--------------------------------|-------|-----|---------|-------|-----------|------|------|------------------|--------|------|
| Test Description               | Units | PQL | Method  | Blank | #         | Base | Dup. | RPD              | LCS-W3 | [NT] |
| o-xylene                       | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| 1,2,3-trichloropropane         | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| Isopropylbenzene               | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| Bromobenzene                   | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| n-propyl benzene               | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| 2-chlorotoluene                | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| 4-chlorotoluene                | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| 1,3,5-trimethyl benzene        | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| Tert-butyl benzene             | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| 1,2,4-trimethyl benzene        | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| 1,3-dichlorobenzene            | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| Sec-butyl benzene              | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| 1,4-dichlorobenzene            | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| 4-isopropyl toluene            | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| 1,2-dichlorobenzene            | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| n-butyl benzene                | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| 1,2-dibromo-3-chloropropane    | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| 1,2,4-trichlorobenzene         | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| Hexachlorobutadiene            | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| 1,2,3-trichlorobenzene         | µg/L  | 1   | Org-023 | <1    | [NT]      | [NT] | [NT] | [NT]             | [NT]   | [NT] |
| Surrogate Dibromofluoromethane | %     |     | Org-023 | 105   | [NT]      | [NT] | [NT] | [NT]             | 104    | [NT] |
| Surrogate toluene-d8           | %     |     | Org-023 | 104   | [NT]      | [NT] | [NT] | [NT]             | 104    | [NT] |
| Surrogate 4-BFB                | %     |     | Org-023 | 95    | [NT]      | [NT] | [NT] | [NT]             | 100    | [NT] |

| QUALITY CONTROL: vTRH in Water (C6-C9) NEPM |       |     |         |            | Duplicate |      |      | Spike Recovery % |            |      |
|---------------------------------------------|-------|-----|---------|------------|-----------|------|------|------------------|------------|------|
| Test Description                            | Units | PQL | Method  | Blank      | #         | Base | Dup. | RPD              | LCS-W3     | [NT] |
| Date extracted                              | -     |     |         | 07/06/2023 | [NT]      | [NT] | [NT] | [NT]             | 07/06/2023 | [NT] |
| Date analysed                               | -     |     |         | 07/06/2023 | [NT]      | [NT] | [NT] | [NT]             | 07/06/2023 | [NT] |
| TRH C <sub>6</sub> - C <sub>9</sub>         | µg/L  | 10  | Org-023 | <10        | [NT]      | [NT] | [NT] | [NT]             | 91         | [NT] |
| TRH C <sub>6</sub> - C <sub>10</sub>        | µg/L  | 10  | Org-023 | <10        | [NT]      | [NT] | [NT] | [NT]             | 91         | [NT] |
| Surrogate Dibromofluoromethane              | %     |     | Org-023 | 105        | [NT]      | [NT] | [NT] | [NT]             | 104        | [NT] |
| Surrogate toluene-d8                        | %     |     | Org-023 | 104        | [NT]      | [NT] | [NT] | [NT]             | 104        | [NT] |
| Surrogate 4-BFB                             | %     |     | Org-023 | 95         | [NT]      | [NT] | [NT] | [NT]             | 100        | [NT] |

| QUALITY CONTROL: svTRH (C10-C40) in Water |       |     |         |            | Duplicate |            |            | Spike Recovery % |            |      |
|-------------------------------------------|-------|-----|---------|------------|-----------|------------|------------|------------------|------------|------|
| Test Description                          | Units | PQL | Method  | Blank      | #         | Base       | Dup.       | RPD              | LCS-W2     | [NT] |
| Date extracted                            | -     |     |         | 07/06/2023 | 1         | 7/06/2023  | 7/06/2023  |                  | 07/06/2023 | [NT] |
| Date analysed                             | -     |     |         | 08/06/2023 | 1         | 08/06/2023 | 08/06/2023 |                  | 08/06/2023 | [NT] |
| TRH C <sub>10</sub> - C <sub>14</sub>     | µg/L  | 50  | Org-020 | <50        | 1         | <50        | <50        | 0                | 99         | [NT] |
| TRH C <sub>15</sub> - C <sub>28</sub>     | µg/L  | 100 | Org-020 | <100       | 1         | <100       | <100       | 0                | 96         | [NT] |
| TRH C <sub>29</sub> - C <sub>36</sub>     | µg/L  | 100 | Org-020 | <100       | 1         | <100       | <100       | 0                | 86         | [NT] |
| TRH >C <sub>10</sub> - C <sub>16</sub>    | µg/L  | 50  | Org-020 | <50        | 1         | <50        | <50        | 0                | 99         | [NT] |
| TRH >C <sub>16</sub> - C <sub>34</sub>    | µg/L  | 100 | Org-020 | <100       | 1         | <100       | <100       | 0                | 96         | [NT] |
| TRH >C <sub>34</sub> - C <sub>40</sub>    | µg/L  | 100 | Org-020 | <100       | 1         | <100       | <100       | 0                | 86         | [NT] |
| Surrogate o-Terphenyl                     | %     |     | Org-020 | 61         | 1         | 75         | 77         | 3                | 82         | [NT] |



| QUALITY CONTROL: PAHs in Water |       |     |             |            |   | Duplicate  |            | Spike Recovery % |            |      |
|--------------------------------|-------|-----|-------------|------------|---|------------|------------|------------------|------------|------|
| Test Description               | Units | PQL | Method      | Blank      | # | Base       | Dup.       | RPD              | LCS-W2     | [NT] |
| Date extracted                 | -     |     |             | 07/06/2023 | 1 | 07/06/2023 | 07/06/2023 |                  | 07/06/2023 | [NT] |
| Date analysed                  | -     |     |             | 08/06/2023 | 1 | 08/06/2023 | 08/06/2023 |                  | 08/06/2023 | [NT] |
| Naphthalene                    | µg/L  | 0.2 | Org-022/025 | <0.2       | 1 | <0.2       | <0.2       | 0                | 112        | [NT] |
| Acenaphthylene                 | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Acenaphthene                   | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 113        | [NT] |
| Fluorene                       | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 107        | [NT] |
| Phenanthrene                   | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 119        | [NT] |
| Anthracene                     | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Fluoranthene                   | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 121        | [NT] |
| Pyrene                         | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 120        | [NT] |
| Benzo(a)anthracene             | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Chrysene                       | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 130        | [NT] |
| Benzo(b,j+k)fluoranthene       | µg/L  | 0.2 | Org-022/025 | <0.2       | 1 | <0.2       | <0.2       | 0                | [NT]       | [NT] |
| Benzo(a)pyrene                 | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 107        | [NT] |
| Indeno(1,2,3-c,d)pyrene        | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Dibenzo(a,h)anthracene         | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Benzo(g,h,i)perylene           | µg/L  | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | [NT]       | [NT] |
| Surrogate p-Terphenyl-d14      | %     |     | Org-022/025 | 61         | 1 | 122        | 123        | 1                | 128        | [NT] |

| QUALITY CONTROL: HM in water - dissolved |       |      |            |            | Duplicate |      |      | Spike Recovery % |            |      |
|------------------------------------------|-------|------|------------|------------|-----------|------|------|------------------|------------|------|
| Test Description                         | Units | PQL  | Method     | Blank      | #         | Base | Dup. | RPD              | LCS-W2     | [NT] |
| Date prepared                            | -     |      |            | 07/06/2023 | [NT]      | [NT] | [NT] | [NT]             | 07/06/2023 | [NT] |
| Date analysed                            | -     |      |            | 07/06/2023 | [NT]      | [NT] | [NT] | [NT]             | 07/06/2023 | [NT] |
| Arsenic-Dissolved                        | µg/L  | 1    | Metals-022 | <1         | [NT]      | [NT] | [NT] | [NT]             | 97         | [NT] |
| Cadmium-Dissolved                        | µg/L  | 0.1  | Metals-022 | <0.1       | [NT]      | [NT] | [NT] | [NT]             | 94         | [NT] |
| Chromium-Dissolved                       | µg/L  | 1    | Metals-022 | <1         | [NT]      | [NT] | [NT] | [NT]             | 95         | [NT] |
| Copper-Dissolved                         | µg/L  | 1    | Metals-022 | <1         | [NT]      | [NT] | [NT] | [NT]             | 94         | [NT] |
| Lead-Dissolved                           | µg/L  | 1    | Metals-022 | <1         | [NT]      | [NT] | [NT] | [NT]             | 98         | [NT] |
| Mercury-Dissolved                        | µg/L  | 0.05 | Metals-021 | <0.05      | [NT]      | [NT] | [NT] | [NT]             | 99         | [NT] |
| Nickel-Dissolved                         | µg/L  | 1    | Metals-022 | <1         | [NT]      | [NT] | [NT] | [NT]             | 94         | [NT] |
| Zinc-Dissolved                           | µg/L  | 1    | Metals-022 | <1         | [NT]      | [NT] | [NT] | [NT]             | 94         | [NT] |

| QUALITY CONTROL: PFAS in Waters Extended    |       |      |         |            | Duplicate |            |            | Spike Recovery % |            |      |
|---------------------------------------------|-------|------|---------|------------|-----------|------------|------------|------------------|------------|------|
| Test Description                            | Units | PQL  | Method  | Blank      | #         | Base       | Dup.       | RPD              | LCS-W2     | [NT] |
| Date prepared                               | -     |      |         | 08/06/2023 | 1         | 08/06/2023 | 08/06/2023 |                  | 08/06/2023 | [NT] |
| Date analysed                               | -     |      |         | 08/06/2023 | 1         | 08/06/2023 | 08/06/2023 |                  | 08/06/2023 | [NT] |
| Perfluorobutanesulfonic acid                | µg/L  | 0.01 | Org-029 | <0.01      | 1         | <0.01      | <0.01      | 0                | 96         | [NT] |
| Perfluoropentanesulfonic acid               | µg/L  | 0.01 | Org-029 | <0.01      | 1         | <0.01      | <0.01      | 0                | 101        | [NT] |
| Perfluorohexanesulfonic acid - PFHxS        | µg/L  | 0.01 | Org-029 | <0.01      | 1         | <0.01      | <0.01      | 0                | 100        | [NT] |
| Perfluoroheptanesulfonic acid               | µg/L  | 0.01 | Org-029 | <0.01      | 1         | <0.01      | <0.01      | 0                | 101        | [NT] |
| Perfluorooctanesulfonic acid PFOS           | µg/L  | 0.01 | Org-029 | <0.01      | 1         | <0.01      | <0.01      | 0                | 100        | [NT] |
| Perfluorodecanesulfonic acid                | µg/L  | 0.02 | Org-029 | <0.02      | 1         | <0.02      | <0.02      | 0                | 99         | [NT] |
| Perfluorobutanoic acid                      | µg/L  | 0.02 | Org-029 | <0.02      | 1         | <0.02      | <0.02      | 0                | 97         | [NT] |
| Perfluoropentanoic acid                     | µg/L  | 0.02 | Org-029 | <0.02      | 1         | <0.02      | <0.02      | 0                | 97         | [NT] |
| Perfluorohexanoic acid                      | µg/L  | 0.01 | Org-029 | <0.01      | 1         | <0.01      | <0.01      | 0                | 99         | [NT] |
| Perfluoroheptanoic acid                     | µg/L  | 0.01 | Org-029 | <0.01      | 1         | <0.01      | <0.01      | 0                | 98         | [NT] |
| Perfluorooctanoic acid PFOA                 | µg/L  | 0.01 | Org-029 | <0.01      | 1         | <0.01      | <0.01      | 0                | 100        | [NT] |
| Perfluorononanoic acid                      | µg/L  | 0.01 | Org-029 | <0.01      | 1         | <0.01      | <0.01      | 0                | 105        | [NT] |
| Perfluorodecanoic acid                      | µg/L  | 0.02 | Org-029 | <0.02      | 1         | <0.02      | <0.02      | 0                | 97         | [NT] |
| Perfluoroundecanoic acid                    | µg/L  | 0.02 | Org-029 | <0.02      | 1         | <0.02      | <0.02      | 0                | 99         | [NT] |
| Perfluorododecanoic acid                    | µg/L  | 0.05 | Org-029 | <0.05      | 1         | <0.05      | <0.05      | 0                | 96         | [NT] |
| Perfluorotridecanoic acid                   | µg/L  | 0.1  | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 92         | [NT] |
| Perfluorotetradecanoic acid                 | µg/L  | 0.5  | Org-029 | <0.5       | 1         | <0.5       | <0.5       | 0                | 101        | [NT] |
| 4:2 FTS                                     | µg/L  | 0.01 | Org-029 | <0.01      | 1         | <0.01      | <0.01      | 0                | 99         | [NT] |
| 6:2 FTS                                     | µg/L  | 0.01 | Org-029 | <0.01      | 1         | <0.01      | <0.01      | 0                | 100        | [NT] |
| 8:2 FTS                                     | µg/L  | 0.02 | Org-029 | <0.02      | 1         | <0.02      | <0.02      | 0                | 101        | [NT] |
| 10:2 FTS                                    | µg/L  | 0.02 | Org-029 | <0.02      | 1         | <0.02      | <0.02      | 0                | 99         | [NT] |
| Perfluorooctane sulfonamide                 | µg/L  | 0.1  | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 103        | [NT] |
| N-Methyl perfluorooctane sulfonamide        | µg/L  | 0.05 | Org-029 | <0.05      | 1         | <0.05      | <0.05      | 0                | 107        | [NT] |
| N-Ethyl perfluorooctanesulfonamide          | µg/L  | 0.1  | Org-029 | <0.1       | 1         | <0.1       | <0.1       | 0                | 106        | [NT] |
| N-Me perfluorooctanesulfonamidethanol       | µg/L  | 0.05 | Org-029 | <0.05      | 1         | <0.05      | <0.05      | 0                | 85         | [NT] |
| N-Et perfluorooctanesulfonamidethanol       | µg/L  | 0.5  | Org-029 | <0.5       | 1         | <0.5       | <0.5       | 0                | 87         | [NT] |
| MePerfluorooctanesulfonamidacetic acid      | µg/L  | 0.02 | Org-029 | <0.02      | 1         | <0.02      | <0.02      | 0                | 103        | [NT] |
| EtPerfluorooctanesulfonamidacetic acid      | µg/L  | 0.02 | Org-029 | <0.02      | 1         | <0.02      | <0.02      | 0                | 101        | [NT] |
| Surrogate <sup>13</sup> C <sub>8</sub> PFOS | %     |      | Org-029 | 102        | 1         | 98         | 101        | 3                | 99         | [NT] |
| Surrogate <sup>13</sup> C <sub>2</sub> PFOA | %     |      | Org-029 | 102        | 1         | 104        | 104        | 0                | 100        | [NT] |

| QUALITY CONTROL: PFAS in Waters Extended           |       |     |         |       | Duplicate |      |      | Spike Recovery % |        |      |
|----------------------------------------------------|-------|-----|---------|-------|-----------|------|------|------------------|--------|------|
| Test Description                                   | Units | PQL | Method  | Blank | #         | Base | Dup. | RPD              | LCS-W2 | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>3</sub> PFBS   | %     |     | Org-029 | 111   | 1         | 107  | 105  | 2                | 108    | [NT] |
| Extracted ISTD <sup>18</sup> O <sub>2</sub> PFHxS  | %     |     | Org-029 | 109   | 1         | 108  | 108  | 0                | 111    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOS   | %     |     | Org-029 | 108   | 1         | 103  | 105  | 2                | 109    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFBA   | %     |     | Org-029 | 104   | 1         | 97   | 99   | 2                | 108    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>3</sub> PFPeA  | %     |     | Org-029 | 109   | 1         | 104  | 107  | 3                | 110    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFHxA  | %     |     | Org-029 | 110   | 1         | 102  | 106  | 4                | 110    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFHpA  | %     |     | Org-029 | 105   | 1         | 99   | 101  | 2                | 107    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOA   | %     |     | Org-029 | 110   | 1         | 104  | 104  | 0                | 112    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>5</sub> PFNA   | %     |     | Org-029 | 108   | 1         | 105  | 103  | 2                | 108    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFDA   | %     |     | Org-029 | 111   | 1         | 105  | 108  | 3                | 113    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFUnDA | %     |     | Org-029 | 118   | 1         | 103  | 105  | 2                | 115    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFDoDA | %     |     | Org-029 | 105   | 1         | 103  | 108  | 5                | 114    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> PFTeDA | %     |     | Org-029 | 82    | 1         | 84   | 85   | 1                | 95     | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> 4:2FTS | %     |     | Org-029 | 107   | 1         | 97   | 96   | 1                | 102    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> 6:2FTS | %     |     | Org-029 | 107   | 1         | 103  | 100  | 3                | 109    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>2</sub> 8:2FTS | %     |     | Org-029 | 109   | 1         | 100  | 102  | 2                | 112    | [NT] |
| Extracted ISTD <sup>13</sup> C <sub>8</sub> FOSA   | %     |     | Org-029 | 112   | 1         | 108  | 108  | 0                | 112    | [NT] |
| Extracted ISTD d <sub>3</sub> N MeFOSA             | %     |     | Org-029 | 108   | 1         | 101  | 104  | 3                | 107    | [NT] |
| Extracted ISTD d <sub>5</sub> N EtFOSA             | %     |     | Org-029 | 105   | 1         | 104  | 110  | 6                | 108    | [NT] |
| Extracted ISTD d <sub>7</sub> N MeFOSE             | %     |     | Org-029 | 116   | 1         | 113  | 108  | 5                | 110    | [NT] |

| QUALITY CONTROL: PFAS in Waters Extended |       |     |         |       | Duplicate |      |      | Spike Recovery % |        |      |
|------------------------------------------|-------|-----|---------|-------|-----------|------|------|------------------|--------|------|
| Test Description                         | Units | PQL | Method  | Blank | #         | Base | Dup. | RPD              | LCS-W2 | [NT] |
| Extracted ISTD d <sub>9</sub> N EtFOSE   | %     |     | Org-029 | 118   | 1         | 109  | 104  | 5                | 119    | [NT] |
| Extracted ISTD d <sub>3</sub> N MeFOSAA  | %     |     | Org-029 | 109   | 1         | 107  | 109  | 2                | 110    | [NT] |
| Extracted ISTD d <sub>5</sub> N EtFOSAA  | %     |     | Org-029 | 112   | 1         | 107  | 106  | 1                | 111    | [NT] |

## Result Definitions

|             |                                           |
|-------------|-------------------------------------------|
| <b>NT</b>   | Not tested                                |
| <b>NA</b>   | Test not required                         |
| <b>INS</b>  | Insufficient sample for this test         |
| <b>PQL</b>  | Practical Quantitation Limit              |
| <b>&lt;</b> | Less than                                 |
| <b>&gt;</b> | Greater than                              |
| <b>RPD</b>  | Relative Percent Difference               |
| <b>LCS</b>  | Laboratory Control Sample                 |
| <b>NS</b>   | Not specified                             |
| <b>NEPM</b> | National Environmental Protection Measure |
| <b>NR</b>   | Not Reported                              |



## Quality Control Definitions

|                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Blank</b>                                                                                                                                                                                                                                                   | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.           |
| <b>Duplicate</b>                                                                                                                                                                                                                                               | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.                                                 |
| <b>Matrix Spike</b>                                                                                                                                                                                                                                            | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. |
| <b>LCS (Laboratory Control Sample)</b>                                                                                                                                                                                                                         | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.                                |
| <b>Surrogate Spike</b>                                                                                                                                                                                                                                         | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.                          |
| Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.     |                                                                                                                                                                                                                                  |
| The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016. |                                                                                                                                                                                                                                  |
| Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2                                                                                                                         |                                                                                                                                                                                                                                  |

## Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

[illegible]

## SAMPLE RECEIPT ADVICE

### Client Details

|                  |                            |
|------------------|----------------------------|
| <b>Client</b>    | JBS & G (NSW & WA) Pty Ltd |
| <b>Attention</b> | Alison Smith               |

### Sample Login Details

|                                             |                   |
|---------------------------------------------|-------------------|
| <b>Your reference</b>                       | 65196, Cabramatta |
| <b>Envirolab Reference</b>                  | 324973            |
| <b>Date Sample Received</b>                 | 06/06/2023        |
| <b>Date Instructions Received</b>           | 06/06/2023        |
| <b>Date Results Expected to be Reported</b> | 14/06/2023        |

### Sample Condition

|                                                               |          |
|---------------------------------------------------------------|----------|
| <b>Samples received in appropriate condition for analysis</b> | Yes      |
| <b>No. of Samples Provided</b>                                | 1 Water  |
| <b>Turnaround Time Requested</b>                              | Standard |
| <b>Temperature on Receipt (°C)</b>                            | 14       |
| <b>Cooling Method</b>                                         | Ice      |
| <b>Sampling Date Provided</b>                                 | YES      |

### Comments

Nil

Please direct any queries to:

#### Aileen Hie

**Phone:** 02 9910 6200  
**Fax:** 02 9910 6201  
**Email:** ahie@envirolab.com.au

#### Jacinta Hurst

**Phone:** 02 9910 6200  
**Fax:** 02 9910 6201  
**Email:** jhurst@envirolab.com.au

*Analysis Underway, details on the following page:*



**Envirolab Services Pty Ltd**

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12 Ashley St Chatswood NSW 2067

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| Sample ID | VOCs in water | VTRH in Water (C6-C9) NEPM | svTRH (C10-C40) in Water | PAHs in Water | HM in water - dissolved | PFAS in Waters Extended |
|-----------|---------------|----------------------------|--------------------------|---------------|-------------------------|-------------------------|
| QA01      | ✓             | ✓                          | ✓                        | ✓             | ✓                       | ✓                       |

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

### Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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#### Document Status

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|---------|--------------|-----------------|-------------------------|-----------|------------|
| A       | Alison Smith | Christine Louie | Christine Louie         | DRAFT     | 22/06/2023 |



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